HITACHI
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HA8000V シリーズ

Service Pack for HA8000V (SPH)

Version 7.44 14

Readme

２０２６年３月

1. はじめに

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

1.1 他社所有名称に対する表示

HITACHI は、株式会社 日立製作所の商標または登録商標です。
Microsoft, Windows, Windows Server は、米国 Microsoft Corporation の米国およびその他の国における商標または登録商標です。
Intel、インテル、Xeon は、アメリカ合衆国およびその他の国における Intel Corporation の商標です。
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1.2 注意事項

(1) 本書は改良のため，予告なしに変更することがあります。
(2) Service Pack for HA8000V のご使用に当たっては、<CD ドライブ>¥EULA に格納された「エンドユーザー使用許諾契約書」をお読みください。
(3) Service Pack for HA8000V に瑕疵が無いことを保証するものではありません。
(4) Service Pack for HA8000V は、「3 適用機種及びＯＳ」記載のプラットフォームでご使用いただけます。
(5) 天災、人災、事故等で Service Pack for HA8000V 使用中に電源が切れますとシステム装置が正常に動作しなくなることがありますので十分に気を付けてください。
(6) お客様は、Service Pack for HA8000V 並びに本書の全部又は一部を単独で又は他の情報等と組み合わせ、直接又は間接に以下に該当する取扱いをする場合、「外国為替及び外交貿易」の規制及び米国輸出管理規制等外国の輸出関連法規を確認し、適正な手続きを行う必要があります。
- 輸出するとき。
- 海外へ持ち出すとき。
- 非居住者へ提供し、又は使用させるとき。
- 上記に定めるほか、「外国為替及び外国貿易法」又は外国の輸出関連法規に定めがあるとき。

(7) マニュアル『HA8000V シリーズ 重要事項および読替ガイド』には、各種マニュアルをご覧いただく際、事前にご理解いただくべき内容を記載しています。こちらも合わせてご参照ください。マニュアルは『ドキュメントポータル』の「マニュアル ＞ サーバ」-「HA8000V シリーズ」より参照いただけます。

1.3 変更履歴

発行日	変更内容
２０２５年１１月	初版
２０２６年3月	誤記訂正

2. Service Pack for HA8000V（ＳＰＨ)について

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

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

3. 適用機種及びＯＳ

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

3.1 適用機種

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

3.2 適用 OS

- Microsoft® Windows Server® 2025
- Microsoft® Windows Server® 2022
- Microsoft® Windows Server® 2019
- Red Hat® Enterprise Linux® Server 9.5
- VMware® ESX 9.0
- VMware ESXi™ 8.0

4. 変更内容

本章では、今回のリリースの変更内容を記載しています。

4.1 新規サポート内容

『3 適用機種及びＯＳ』を参照してください。

(1) 追加サポート機種及びＯＳ

- 追加サポート機種

  なし

- 追加サポートＯＳ
  - Red Hat® Enterprise Linux® Server 9.5

(2) 追加サポートデバイス

なし

(3) サポート除外機種及びＯＳ

- サポート除外機種

  なし

- サポート除外ＯＳ
  - Red Hat® Enterprise Linux® Server 9.4
  - Red Hat® Enterprise Linux® Server 8.10

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 セットアップ前にオフライン展開モード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 SPH 初回適用では、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 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

⑵ 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。

⑶ SUM の展開モードに関する補足説明
SUM にはいくつかのアップデート方法(展開モード)があります。展開モードにより、対象 OS/更新対象が異なりますので、以下の表を参照の上、展開モードを決定してください。

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

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

⑷ SUM GUI での適用パッケージの選択について
SUM GUI を使用している場合、インベントリが完了すると展開(Deploy)するパッケージの確認画面が表示されます。

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

自動選択されなかったパッケージは、「強制」(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。)

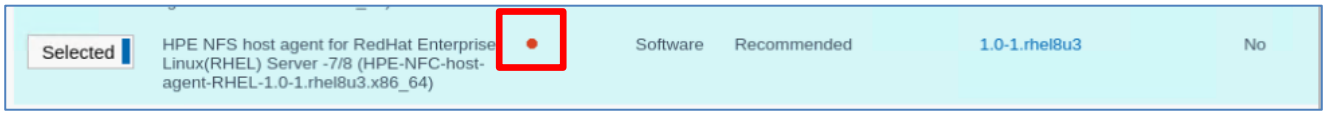
【注意】
ファームウェア/ドライバ/ユーティリティは、別途ご案内のない限り、最新のものをご使用いただくことを推奨しています。特に、強制適用を選択した場合、選択したバージョンが古いとダウングレードとなりますので、意図せずダウングレードしてしまうことが無いよう、操作には注意してください。

⑸ 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。

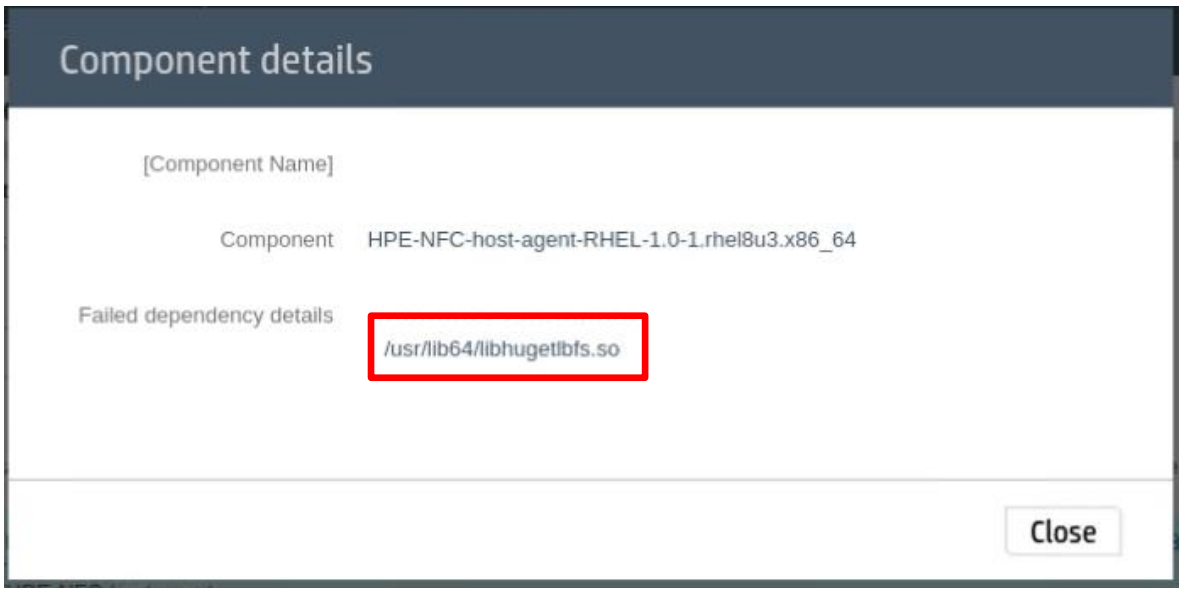
エラーが発生する場合、以降記述の各エラー表示例をご参照頂き、依存ファイルとして表示されるファイル/ライブラリをインストール後、再度 SPH を適用して下さい。

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。

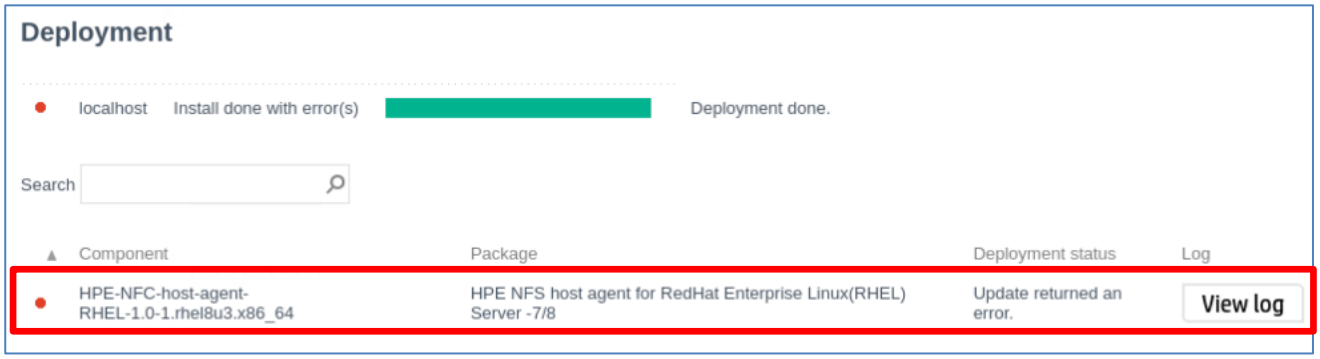


上記赤枠内の赤丸をダブルクリックすると次のダイアログが表示され、”Failed dependency details”として、インストールが必要となるファイル/ライブラリが表示されます。(赤枠内)

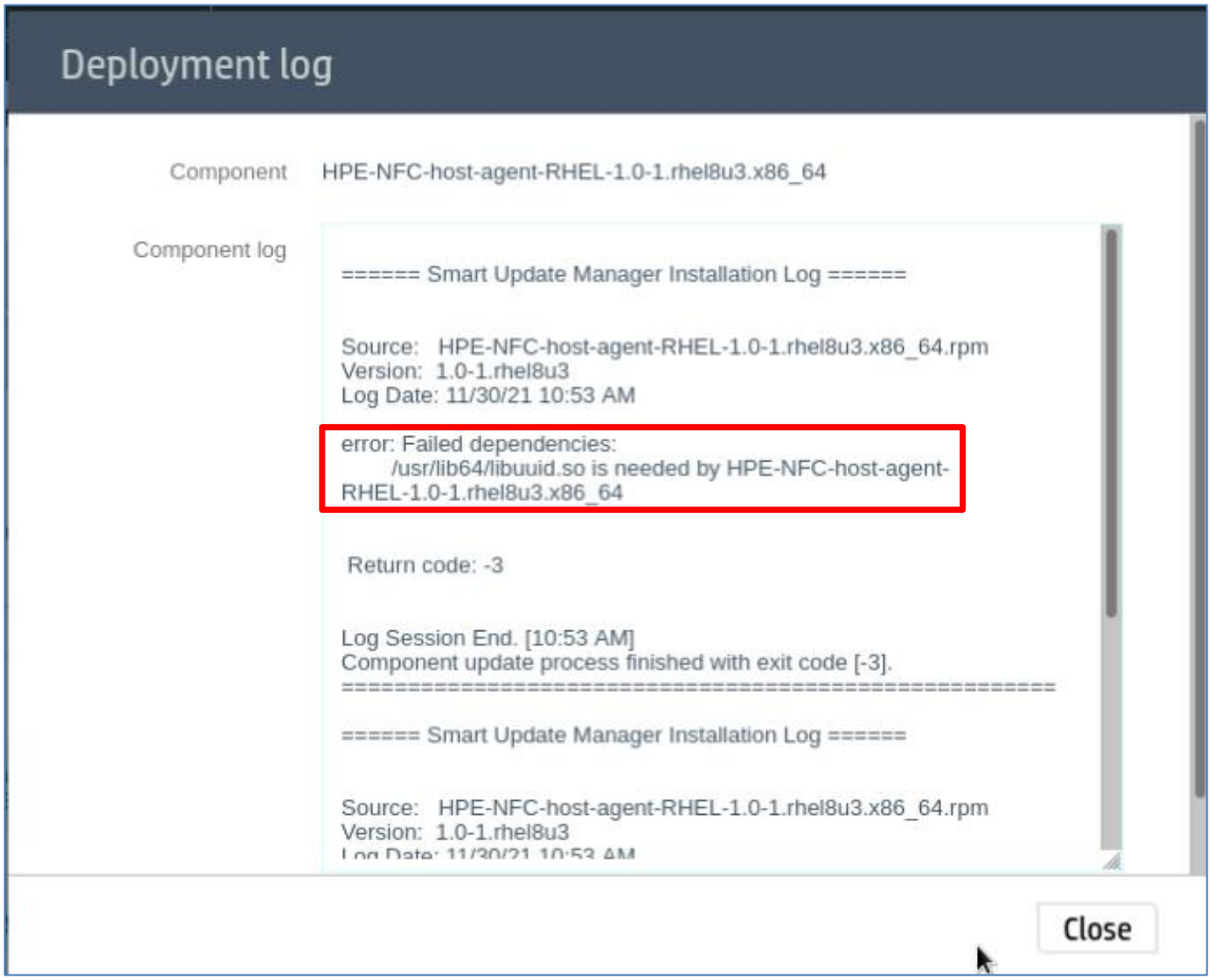


上記の例では、インストールが必要となるファイル/ライブラリとして、”libhugetlbfs.so”を示しています。

【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。

⑹ 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 & OS ソフトウェア]>[インストールキュー]ページを参照します。

「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。

(7) 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。

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

※x.xx の部分にはバージョンが入ります。

⑻ オンライン SUM 実行中の OS 再起動について

オンラインにて SUM 実行中に、対象装置が自動的に OS 再起動することがあります。この場合、いくつかパッケージがアップデートされていない可能性がありますので、再度 SUM を実行して、残りのパッケージをアップデートしてください。
全てアップデートされているかの確認方法は、『5.3 (1) ファームウェア/ドライバの依存関係について』記載の手順を参考にしてください。

⑼ USB 起動媒体の作成について

SPH に収録している USB Key Utility(Windows アプリ)を使用して、ブート可能な USB フラッシュドライブ(USB キー)を作成することができます。以下、USB キーの作成方法を示します。

【USB Key Utility 使用上の注意】

- 32 ビットオペレーティングシステムではご利用になれません。
- 最大 32GB の USB フラッシュドライブが利用可能です。

- iso イメージサイズより大きいストレージ容量を備える USB フラッシュドライブが必要です。
- ターゲット USB フラッシュドライブ上のすべてのデータが削除されます。データを事前にバックアップしてください。

【USB キー作成手順】

(1) Windows PC で SPH iso イメージをマウントし、"<マウントドライブ>:¥usb¥usbkey"フォルダに格納された"usbkey.exe"をダブルクリックします。
(2) USB Key Utility のスプラッシュ画面(起動画面)が表示されたら、「次へ」をクリックします。
(3) 「エンドユーザー使用許諾契約書」を確認したら、『同意する』をチェックし「次へ」をクリックします。
(4) 『CD/DVD から起動可能な USB キーを作成』をチェックし、「次へ」をクリックします。
(5) 画面表示に従って、ご利用 PC の空いている USB ポートに、USB キー作成用の USB フラッシュドライブを挿入して、「次へ」をクリックします。
(6) 下記の通りメディアを選択し、「次へ」をクリックします。
  - 「ソース CD/DVD の選択」で、『ISO ファイルのブラウズ』をチェックし、USB フラッシュドライブへ書き込む SPH iso イメージファイルを指定します。
  - 「ターゲット USB キーのドライブ文字の選択」で、挿入した USB フラッシュドライブを選択します。(対象のドライブが見つからない場合は、「ターゲット再スキャン」をクリックしてください。再スキャンしても表示されない場合は、別の USB フラッシュドライブを挿入してください。)
(7) 警告メッセージを確認し「次へ」をクリックします。(USB フラッシュドライブがフォーマットされ、ソースの内容が USB フラッシュドライブにコピーされます。)
(8) 正常に作成されたメッセージが表示されたら、「完了」をクリックします。

5.4 SUM でのランゲージパックバージョン表示と適用について

SUM(Smart Update Manager)で表示される、適用中のランゲージパックのバージョンが正しく表示されない場合があります。正しいバージョンを確認するためには、iLO WEB インタフェースの[管理]＞[言語]ページより現在適用中の言語パックのバージョンをご確認下さい。
また、この結果、SUM でランゲージパックが適用対象として正しく選択されない可能性があります。
目的のバージョンのランゲージパックが適用されていないのに、SUM 実行後の「展開サマリー」画面で、ランゲージパックが適用対象として選択されない場合があります。この場合は、ランゲージパックを手動で選択し展開を実施してください。
目的のバージョンのランゲージパックが適用済みであっても、SUM 実行後の「展開サマリー」画面で、ランゲージパックが適用対象として自動的に選択されている場合があります。この場合は、ランゲージパックの適用は不要ですので、選択を解除してから展開を実施してください。

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

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

- SUM をローカルホスト上で実行(※)
- SUM で対象ノードとしてシステム装置の OS の IP アドレスを指定して実行(※)

●iLO WEB インタフェースを使用して実行

※：対象ノードが VMware の場合は使用不可

【iLO WEB インタフェースからの更新手順】

(1) 以下の手順で、事前に SPH package ファイルからランゲージパックファイルを取り出してください。

Windows 上で、SPH の packages ディレクトリ下にある、『6.2.10 Firmware - Lights-Out Management』の「Language Pack - Japanese」に掲載されている"cp******.exe"を実行してください。パッケージセットアップが起動するので「解凍」を選択し、任意のディレクトリにパッケージを展開してください。展開したディレクトリから、"lang_ja_***.lpk"を取り出してください。

(2) 装置のシャットダウンを行ってください。

(3) iLO WEB インタフェースの「ファームウェア & OS ソフトウェア」タブを開いてください。

(4) 「ファームウェアアップデート」をクリックし、「ローカルバイナリファイル」に先ほど取り出したランゲージパックファイルを指定し、「フラッシュ」を選択してください。

(5) 2～3 分後に完了のメッセージが表示されます。その後 iLO が自動的に再起動します。

5.6 ASR(Automatic Server Recovery)について

ASR(Automatic Server Recovery)はブルースクリーン等の致命的な OS のエラーが発生したときに自動的にシステムの復旧をするべくサーバの再起動をおこなう機能です。IP を使った OS のインストール又は SPH の適用、その他の方法による ASR ドライバのインストールにより ASR が自動的に有効になります。ASR が不要な場合や Alive Monitor、IPMI WDT 等の他の OS 死活監視を使う場合は ASR を無効化してください。

5.6.1 ASR 操作用の 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 2019	iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2019
2	Windows Server 2022	iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2022
3	Windows Server 2025	iLO 6 Automatic Server Recovery Driver for Microsoft 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

5.6.2 ASR の確認方法

Windows の PowerShell より Get-AsrSettings.ps1 を実行してください。TimeoutInMinutes が 0 又は、コマンドの実行がエラーとなった場合 ASR は無効になっています。

実行例その 1(TimeoutInMinutes が 0 の場合)

```
PS C:¥Users¥Administrator¥Desktop> .¥Get-AsrSettings.ps1
Active                 : True
EnablePreTimeoutNMI : True
InstanceName           : PCI¥VEN_103C&DEV_3306&SUBSYS_00E41590&REV_07¥4&154b2d14&0&00E4_0
TimeoutInMinutes     : 0
PSComputerName       :
```

実行例その 2(コマンドの実行がエラーとなる場合)

```
PS C:¥Users¥Administrator¥Desktop> .¥Get-AsrSettings.ps1
Get-CimInstance : 無効なクラスです
発生場所 C:¥Users¥Administrator¥Desktop¥Get-AsrTimeout.ps1:25 文字:1
+ Get-CimInstance -Namespace "root¥wmi" -ClassName "HP_iLO_ASR_Settings ...
+ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
    + CategoryInfo          : MetadataError: (root¥wmi:HP_iLO_ASR_Settings:String) [Get-CimInstance], CimException
    + FullyQualifiedErrorId : HRESULT 0x80041010,Microsoft.Management.Infrastructure.CimCmdlets.GetCimInstanc
eCommand
```

5.6.3 ASR の無効化方法

Windows の PowerShell より以下のオプションで Set-AsrTimeout.ps1 を実行してください。

Set-AsrTimeout.ps1 -Disable

実行例

```
PS C:¥Users¥Administrator¥Desktop> .¥Set-AsrTimeout.ps1 -Disable
```

5.6.4 ASR の有効化方法

Windows の PowerShell より以下のオプションで Set-AsrTimeout.ps1 を実行してください。

Set-AsrTimeout.ps1 -Default

実行例

```
PS C:¥Users¥Administrator¥Desktop> .¥Set-AsrTimeout.ps1 -Default
```

5.7 VMware をご使用にあたっての注意事項

5.7.1 ファームウェアの適用について

システム装置を安定してご使用いただくためには、ご使用の VMware バージョンに合わせたファームウェアを適用頂く必要があります。

VMware 環境でのファームウェアの適用にあたっては、SUM のリモートオンライン 展開モード及びオフライン 展開モードが利用できます。(VMware バージョンと利用可能な SPH 及び展開モードについては、「Service Pack for HA8000V 補足資料(Readme)」の『サポートモデル/OS 一覧』を参照ください。)

【リモートオンライン 展開モードを使用する場合】
本モードでは、ファームウェアに加えてドライバのアップデートも可能です。
事前に「iSUT」のインストール及び ESXi ホストに対する設定が必要です。
「iSUT」が未インストールの場合、『5.7.2 iSUT のインストール』記載の手順に従ってインストールしてください。ESXi ホストに対しては、以下の設定をアップデート作業前に実施して下さい。

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

【オフライン 展開モードを使用する場合】
SPH の iso イメージを格納した媒体をサーバに取り付け、媒体よりサーバをブートします。

なお、各 VMware バージョンと SPH サポート情報の詳細は、「日立アドバンスドサーバ HA8000V シリーズホームページ」の[製品]ー[OS、ISV 情報]にある『VMware』に掲載している注意事項をご参照の上、推奨ドライババージョンをご確認ください。

5.7.2 iSUT のインストール

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

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

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

No.	VMware バージョン	SPH package ファイル名	オフラインバンドルファイル名
1	VMware ESXi™ 8.0	cp068046.zip	sutComponent:800.6.3.0.13-*.zip
2	VMware® ESX 9.0		

(2) 取り出した iSUT のオフラインバンドルを VMware ESXi の「datastore1」直下へ転送してください。

(3) VMware ESXi のコンソール画面で「F2」キーを押すと Login 画面が表示されるので、root ユーザーでログインします。

(4) 「System Customization」画面が表示されるので、「Troubleshooting Options」を選択し、「Enter」キーを押下します。

(5) 「Enable ESXi Shell」を選択し、「Enter」キーを押下して ESXi Shell を ”Enable” に変更します。

(6)「Alt」+「F1」キーを押下し、VMware ESXi の Shell 画面を開き、root ユーザーでログインします。

(7) 次のコマンドを実行しインストールします。

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

(8) VMware ESXi を再起動してください。

(9) 再起動後、再度 VMware ESXi の Shell 画面を開き、root ユーザーでログインします。

(10) 次のコマンドを実行し、iSUT を AutoDeployReboot モードに設定します。

```
sut –set mode=autodeployreboot
```

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

```
sut –set mode=ondemand
```

5.7.3 iLO セキュリティ設定を〝高セキュリティ〟にした装置で iSUT を使用する場合について

（1）iLO の認証情報設定

iLO を"高セキュリティ"設定にした状態で iSUT を使うためには、以下のいずれかの設定が必要です。

①iSUT への認証情報設定

②iLO のセキュリティ条件の変更(iLO FW v1.4.0 以降のみ設定可能)

①iSUT への認証情報設定

iSUT に iLO の認証情報を設定します。設定方法は、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 のセキュリティ条件の変更

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

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
```

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

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

【iLO が AMS に接続している場合】

【iLO が AMS に接続していない場合】

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)

5.8 SUM オフライン展開モードご使用時の注意事項
SUM オフライン展開モードでは Secure Boot をサポートしておりません。Secure Boot 設定は Disabled に設定の上ご使用ください。
SPH の ISO イメージを、iLO 仮想メディアデバイスにマウントして SUM のオフライン展開モードご使用の場合、iLO の『ネットワークインターフェイス設定』が『共有ネットワークポート』構成となっていると、SUM の起動途中でエラーになることがあります。
iLO の『ネットワークインターフェイス設定』を『共有ネットワークポート』構成でご使用の場合、ISO イメージを書き込んだ媒体をご用意いただき、内蔵もしくは USB 接続の DVD ドライブを使用して SUM のオ

フライン展開モードを起動してください。

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

5.9 Intel 製ネットワークアダプタご使用について

Intel 製ネットワークアダプタをご使用になる場合、下記の制限事項があります。

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

Intel 製ネットワークアダプタのファームウェアアップデートを行う場合、ファームウェアアップデート後に再起動を行っても、サブ電源で動作する機能は動作し続けているため、アップデートが完全には反映されません。
アップデート後に電源ケーブルを抜いて電源を 5 秒以上切断してから、電源ケーブルを差しなおし電源を入れなおしてください。電源ケーブルを抜き差しする必要があるため、リモートでは実施できません。

本制限事項の最新の状況並びに具体的な対象アダプタの情報については、アドバイザリ：「特定のネットワークアダプタ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。

5.10 RAID コントローラ環境での OS セットアップの注意事項

5.10.1 ドライバの適用について

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

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

形名(*1)	製品名	Device
TQ-R□□-P47184-B21	SR932i-p Gen11 コントローラ	HPE SR932i-p Gen11 24G Controller Kit
TQ-R□□-P47789-B21	MR216i-o Gen11 コントローラ	HPE MR216i-o Gen11 12G Controller Kit
TQ-R□□-P47785-B21	MR216i-p Gen11 コントローラ	HPE MR216i-p Gen11 12G Controller Kit
TQ-R□□-P58335-B21	MR408i-o Gen11 コントローラ	HPE MR408i-o Gen11 SPDM Storage Cntlr
TQ-R□□-P47781-B21	MR416i-o Gen11 コントローラ	HPE MR416i-o Gen11 12G Controller Kit
TQ-R□□-P47777-B21	MR416i-p Gen11 コントローラ	HPE MR416i-p Gen11 12G Controller Kit
TQ-R□□-P74775-B21	MR408i-p Gen11 コントローラ	HPE MR408i-p Gen11 12G Controller Kit

(*1)：□には製品構成などにより異なった英数字が入ります。

6. ＳＰＨ収録コンテンツ一覧

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

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

以降、それぞれのコンテンツについて説明します。

6.1 お客様により適用が必要なコンテンツ

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

No.	ツール	説　明	iso 内格納場所	備　考
1	2PRxDur settings	(レジストリ設定)ネットワークアダプタに関する設定を実施します	¥software¥Hitachi¥RegTool	Broadcom 製 1Gb LAN アダプタ搭載構成のみ対象
3	LargeRxRing settings	(レジストリ設定)ネットワークアダプタに関する設定を実施します	¥software¥Hitachi¥RegTool	

【Broadcom 製 1Gb LAN アダプタ】

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

(1) ネットワークアダプタ レジストリ設定の適用

ネットワークアダプタ レジストリ設定を適用するたには、Administrator 権限にて DOS プロンプトより下記のバッチファイルを実行してください。

<CD ドライブ>:¥software¥Hitachi¥RegTool¥2PRxDur.bat
< CD ドライブ>:¥software¥Hitachi¥RegTool¥LargeRxRing.bat

ツール実行後、OS を再起動してください。

6.2 SUM ツールで適用可能なファイル

次に示すドライバ/ファームウェア/ユーティリティ(ソフトウェア)は、SUM ツールにより適用可能なファイルです。(表中の"x"表記は、本ドキュメントリリース時点で未サポートであることを示します。)
SUM の GUI モードで使用する場合、OS 別の実行するコマンドを下記に示します。(管理者権限で実行してください。)

Windows 環境：

.¥launch_sum.bat

Linux 環境：

./launch_sum.sh

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

なお、SUM の詳細な操作方法は、「日立アドバンスドサーバ HA8000V シリーズ ホームページ」に掲載されている『Smart Update Manager ユーザーガイド』を参照ください。

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

6.2.1 Application - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
1	Integrated Smart Update Tools for Windows x64	cp067828.exe	-	6.3.0.0	6.3.0.0

6.2.2 BIOS - System ROM

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
2	Online ROM Flash Component for Windows x64 - System ROM U54	cp068273.exe	System BIOS - U54	2.60_08-07-2025	U54 v2.60 (08/07/2025)
3	Online ROM Flash Component for Windows x64 - System ROM U58	cp068263.exe	System BIOS - U58	2.60_08-07-2025	U58 v2.60 (08/07/2025)
4	Online ROM Flash Component for Windows x64 - System ROM U59	cp068266.exe	System BIOS - U59	2.60_08-07-2025	U59 v2.60 (08/07/2025)
5	Online ROM Flash Component for Windows x64 - System ROM U63	cp068260.exe	System BIOS - U63	2.60_08-07-2025	U63 v2.60 (08/07/2025)
6	Online ROM Flash Component for Windows x64 - System ROM U65	cp068316.exe	System BIOS - U65	2.30_08-07-2025	U65 v2.30 (08/07/2025)
7	ROM Flash Firmware Package - System ROM U54	OEM.U54_2.60_08_07_2025.fwpkg	System BIOS - U54	2.60_08-07-2025	U54 v2.60 (08/07/2025)
8	ROM Flash Firmware Package - System ROM U59	OEM.U59_2.60_08_07_2025.fwpkg	System BIOS - U59	2.60_08-07-2025	U59 v2.60 (08/07/2025)
9	ROM Flash Firmware Package - System ROM U63	OEM.U63_2.60_08_07_2025.fwpkg	System BIOS - U63	2.60_08-07-2025	U63 v2.60 (08/07/2025)
10	ROM Flash Firmware Package - System ROM U65	OEM.U65_2.30_08_07_2025.fwpkg	System BIOS - U65	2.30_08-07-2025	U65 v2.30 (08/07/2025)

6.2.3 Driver – Chipset

No.	Description	Package filename	Device	Package Version	Firmware/Driver version

6.2.4 Driver – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
11	Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp067898.exe	BCM 5719 1GbE 4p BASE-T LOM Adptr	221.0.8.0 (B)	221.0.8.0
12	Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp067898.exe	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	221.0.8.0 (B)	221.0.8.0
13	Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp067898.exe	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	221.0.8.0 (B)	221.0.8.0
14	Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp067898.exe	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	221.0.8.0 (B)	221.0.8.0
15	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57414 10/25GbE 2p SFP28 Adptr	233.0.148.0	233.0.148.0
16	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	233.0.148.0	233.0.148.0
17	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57416 10GbE 2p BASE-T Adptr	233.0.148.0	233.0.148.0
18	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	233.0.148.0	233.0.148.0
19	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57412 10GbE 2p SFP+ Adptr	233.0.148.0	233.0.148.0
20	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	233.0.148.0	233.0.148.0

21	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	233.0.148.0	233.0.148.0
22	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	233.0.148.0	233.0.148.0
23	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57504 10/25GbE 4p SFP28 Adptr	233.0.148.0	233.0.148.0
24	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp066627.exe	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	233.0.148.0	233.0.148.0
25	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57414 10/25GbE 2p SFP28 Adptr	233.0.148.0 (B)	233.0.148.0
26	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	233.0.148.0 (B)	233.0.148.0
27	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57416 10GbE 2p BASE-T Adptr	233.0.148.0 (B)	233.0.148.0
28	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	233.0.148.0 (B)	233.0.148.0
29	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57412 10GbE 2p SFP+ Adptr	233.0.148.0 (B)	233.0.148.0
30	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	233.0.148.0 (B)	233.0.148.0
31	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	233.0.148.0 (B)	233.0.148.0
32	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	233.0.148.0 (B)	233.0.148.0
33	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57504 10/25GbE 4p SFP28 Adptr	233.0.148.0 (B)	233.0.148.0
34	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025	cp067900.exe	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	233.0.148.0 (B)	233.0.148.0
35	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u4.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u4
36	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u4.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u4
37	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u4.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u4
38	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u4.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u4
39	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u4.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u4
40	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u4.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u4
41	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u4.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u4
42	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-	Broadcom NetXtreme-E	1.10.3-233.0.152.2	1.10.3-233.0.152.2.r

		233.0.152.2.rhel9u4.x86_64.rpm	BCM57608 100GbE QSFP112 OCP3 Adptr		hel9u4
43	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u4.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u4
44	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u4.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u4
45	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
46	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
47	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
48	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
49	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
50	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
51	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
52	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
53	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
54	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.3-233.0.152.2.rhel9u5.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	1.10.3-233.0.152.2	1.10.3-233.0.152.2.rhel9u5
55	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57414 10/25GbE 2p SFP28 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0.20613240
56	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0.20613240
57	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57416 10GbE 2p BASE-T Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0.20613240
58	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0.20613240
59	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57412 10GbE 2p SFP+ Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0.20613240
60	HPE Broadcom NetXtreme-E Drivers for	cp066625.zip	BCM 57412 10GbE 2p	2025.05.00	233.0.256.0-

	VMware vSphere 8.0		SFP+ OCP3 Adptr		1OEM.800.1.0 .20613240
61	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
62	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
63	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57504 10/25GbE 4p SFP28 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
64	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp066625.zip	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
65	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57414 10/25GbE 2p SFP28 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
66	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
67	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57416 10GbE 2p BASE-T Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
68	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
69	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57412 10GbE 2p SFP+ Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
70	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
71	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
72	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
73	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57504 10/25GbE 4p SFP28 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
74	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0	cp066626.zip	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	2025.05.00	233.0.256.0-1OEM.800.1.0 .20613240
75	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	233.0.152.2	233.0.152.2-rhel9u5
76	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	233.0.152.2	233.0.152.2-rhel9u5
77	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	233.0.152.2	233.0.152.2-rhel9u5
78	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	233.0.152.2	233.0.152.2-rhel9u5
79	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	233.0.152.2	233.0.152.2-rhel9u5
80	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	233.0.152.2	233.0.152.2-rhel9u5

81	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	233.0.152.2	233.0.152.2-rhel9u5
82	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	233.0.152.2	233.0.152.2-rhel9u5
83	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 Adptr	233.0.152.2	233.0.152.2-rhel9u5
84	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 5.	libbnxt_re-233.0.152.2-rhel9u5.x86_64.rpm	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	233.0.152.2	233.0.152.2-rhel9u5
85	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139t-1.rhel9u4.x86_64.rpm	BCM 5719 1GbE 4p BASE-T LOM Adptr	3.139t-1	3.139t-1.rhel9u4
86	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139t-1.rhel9u4.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	3.139t-1	3.139t-1.rhel9u4
87	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139t-1.rhel9u4.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	3.139t-1	3.139t-1.rhel9u4
88	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139t-1.rhel9u4.x86_64.rpm	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	3.139t-1	3.139t-1.rhel9u4
89	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139t-1.rhel9u5.x86_64.rpm	BCM 5719 1GbE 4p BASE-T LOM Adptr	3.139t-1	3.139t-1.rhel9u5
90	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139t-1.rhel9u5.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	3.139t-1	3.139t-1.rhel9u5
91	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139t-1.rhel9u5.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	3.139t-1	3.139t-1.rhel9u5
92	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139t-1.rhel9u5.x86_64.rpm	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	3.139t-1	3.139t-1.rhel9u5
93	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.14-1.rhel9u5.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	4.13.14-1	4.13.14-1.rhel9u5
94	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.14-1.rhel9u5.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	4.13.14-1	4.13.14-1.rhel9u5
95	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.14-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA2 adapter	4.13.14-1	4.13.14-1.rhel9u5
96	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.14-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA2 OCP3 adapter	4.13.14-1	4.13.14-1.rhel9u5
97	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.13.14-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	4.13.14-1	4.13.14-1.rhel9u5
98	HPE Intel igb Drivers for Red Hat Enterprise Linux 9	kmod-hp-igb-5.19.3-1.rhel9u5.x86_64.rp	Intel I350-T4 Ethernet 1Gb 4-port BASE-T	5.19.3-1	5.19.3-1.rhel9u5

		m	Adapter for HPE		
99	HPE Intel igb Drivers for Red Hat Enterprise Linux 9	kmod-hp-igb-5.19.3-1.rhel9u5.x86_64.rpm	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	5.19.3-1	5.19.3-1.rhel9u5
100	HPE Intel igbn Driver for VMware vSphere 8.0	cp066052.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	2025.05.00	1.12.2.0-1OEM.800.1.0.20613240
101	HPE Intel igbn Driver for VMware vSphere 8.0	cp066052.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	2025.05.00	1.12.2.0-1OEM.800.1.0.20613240
102	HPE Intel igbn Driver for VMware vSphere 9.0	cp066049.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	2025.05.00	1.12.2.0-1OEM.800.1.0.20613240
103	HPE Intel igbn Driver for VMware vSphere 9.0	cp066049.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	2025.05.00	1.12.2.0-1OEM.800.1.0.20613240
104	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
105	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
106	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB NDR/EN 400G 1p OSFP Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
107	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB NDR200/EN 200G 1p OSFP Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
108	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB NDR200/EN 200G 2p QSFP112 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
109	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
110	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
111	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
112	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
113	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
114	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB NDR/EN 400G 1p OSFP Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
115	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB NDR200/EN 200G 1p OSFP Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
116	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-	kmod-mlnx-ofa_kernel-25.04-	HPE IB NDR200/EN 200G 2p QSFP112	25.04-0.6.1.1	25.04-OFED.25.04.0.

	7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	Adptr		6.1.1.rhel9u5
117	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
118	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
119	HPE Mellanox RoCE ConnectX-4, ConnectX-5, ConnectX-6 and ConnectX-7 Driver for Red Hat Enterprise Linux 9 Update 5 (x86_64)	kmod-mlnx-ofa_kernel-25.04-OFED.25.04.0.6.1.1.rhel9u5.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	25.04-0.6.1.1	25.04-OFED.25.04.0.6.1.1.rhel9u5
120	Intel i350 Driver for Windows Server 2019	cp067518.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	14.0.7.0	14.0.7.0
121	Intel i350 Driver for Windows Server 2019	cp067518.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	14.0.7.0	14.0.7.0
122	Intel i350 Driver for Windows Server 2022	cp067517.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	14.0.13.0	14.0.13.0
123	Intel i350 Driver for Windows Server 2022	cp067517.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	14.0.13.0	14.0.13.0
124	Intel i350 Driver for Windows Server 2025	cp067516.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	14.1.24.0	14.1.24.0
125	Intel i350 Driver for Windows Server 2025	cp067516.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	14.1.24.0	14.1.24.0
126	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.17.8-1.rhel9u5.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.17.8-1	1.17.8-1.rhel9u5
127	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.17.8-1.rhel9u5.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.17.8-1	1.17.8-1.rhel9u5
128	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.17.8-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA2 adapter	1.17.8-1	1.17.8-1.rhel9u5
129	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.17.8-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA2 OCP3 adapter	1.17.8-1	1.17.8-1.rhel9u5
130	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.17.8-1.rhel9u5.x86_64.rpm	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.17.8-1	1.17.8-1.rhel9u5
131	Intel icea Driver for Microsoft Windows Server 2022	cp067503.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.17.72.0	1.17.72.0
132	Intel icea Driver for Microsoft Windows Server 2022	cp067503.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.17.72.0	1.17.72.0
133	Intel icea Driver for Microsoft Windows Server 2022	cp067503.exe	Intel E810-XXVDA2 adapter	1.17.72.0	1.17.72.0
134	Intel icea Driver for Microsoft Windows Server 2022	cp067503.exe	Intel E810-XXVDA2 OCP3 adapter	1.17.72.0	1.17.72.0
135	Intel icea Driver for Microsoft Windows Server 2022	cp067503.exe	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.17.72.0	1.17.72.0

136	Intel icea Driver for Microsoft Windows Server 2025	cp067504.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.17.73.0	1.17.73.0
137	Intel icea Driver for Microsoft Windows Server 2025	cp067504.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.17.73.0	1.17.73.0
138	Intel icea Driver for Microsoft Windows Server 2025	cp067504.exe	Intel E810-XXVDA2 adapter	1.17.73.0	1.17.73.0
139	Intel icea Driver for Microsoft Windows Server 2025	cp067504.exe	Intel E810-XXVDA2 OCP3 adapter	1.17.73.0	1.17.73.0
140	Intel icea Driver for Microsoft Windows Server 2025	cp067504.exe	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.17.73.0	1.17.73.0
141	Intel icea Driver for Windows Server 2019	cp067502.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.17.72.0	1.17.72.0
142	Intel icea Driver for Windows Server 2019	cp067502.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.17.72.0	1.17.72.0
143	Intel icea Driver for Windows Server 2019	cp067502.exe	Intel E810-XXVDA2 adapter	1.17.72.0	1.17.72.0
144	Intel icea Driver for Windows Server 2019	cp067502.exe	Intel E810-XXVDA2 OCP3 adapter	1.17.72.0	1.17.72.0
145	Intel icea Driver for Windows Server 2019	cp067502.exe	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.17.72.0	1.17.72.0
146	Intel icen Driver for VMware vSphere 8.0	cp064886.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
147	Intel icen Driver for VMware vSphere 8.0	cp064886.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
148	Intel icen Driver for VMware vSphere 8.0	cp064886.zip	Intel E810-XXVDA2 adapter	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
149	Intel icen Driver for VMware vSphere 8.0	cp064886.zip	Intel E810-XXVDA2 OCP3 adapter	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
150	Intel icen Driver for VMware vSphere 8.0	cp064886.zip	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
151	Intel icen Driver for VMware vSphere 9.0	cp065383.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
152	Intel icen Driver for VMware vSphere 9.0	cp065383.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
153	Intel icen Driver for VMware vSphere 9.0	cp065383.zip	Intel E810-XXVDA2 adapter	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
154	Intel icen Driver for VMware vSphere 9.0	cp065383.zip	Intel E810-XXVDA2 OCP3 adapter	2025.05.00	1.15.4.0-1OEM.800.1.0.20613240
155	Intel icen Driver for VMware vSphere 9.0	cp065383.zip	Intel E810-XXVDA4 Ethernet 10/25Gb 4-	2025.05.00	1.15.4.0-1OEM.800.1.0

			port SFP28 Adapter for HPE		.20613240
156	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019	cp067782.exe	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.4.26768.0	25.4.26768.0
157	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019	cp067782.exe	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.4.26768.0	25.4.26768.0
158	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019	cp067782.exe	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.4.26768.0	25.4.26768.0
159	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022	cp067781.exe	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.4.26768.0	25.4.26768.0
160	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022	cp067781.exe	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.4.26768.0	25.4.26768.0
161	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022	cp067781.exe	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.4.26768.0	25.4.26768.0
162	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2025	cp067783.exe	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	25.4.26768.0	25.4.26768.0
163	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2025	cp067783.exe	MLX MCX631102 10/25GbE 2p SFP28 Adptr	25.4.26768.0	25.4.26768.0
164	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2025	cp067783.exe	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	25.4.26768.0	25.4.26768.0

6.2.5 Driver - Security

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

6.2.6 Driver - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
166	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR416i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
167	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR416i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
168	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR216i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
169	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o,	cp067936.zip	HPE_MR408i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240

	MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0				
170	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR216i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
171	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 8.0	cp067936.zip	HPE_MR408i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
172	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR416i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
173	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR416i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
174	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR216i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
175	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR408i-o_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
176	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR216i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
177	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver (64-bit) for vSphere 9.0	cp067967.zip	HPE_MR408i-p_Gen11	2025.09.01	7.732.04.00-1OEM.800.1.0.20613240
178	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u4-1.x86_64.rpm	HPE_MR416i-o_Gen11	07.732.03.00	07.732.03.00_rhel9u4-1
179	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u4-1.x86_64.rpm	HPE_MR416i-p_Gen11	07.732.03.00	07.732.03.00_rhel9u4-1
180	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o,	kmod-megaraid_sas-07.732.03.00_rhel9u4-1.x86_64.rpm	HPE_MR216i-o_Gen11	07.732.03.00	07.732.03.00_rhel9u4-1

	MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9				
181	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u4-1.x86_64.rpm	HPE_MR408i-o_Gen11	07.732.03.00	07.732.03.00_rhel9u4-1
182	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u4-1.x86_64.rpm	HPE_MR216i-p_Gen11	07.732.03.00	07.732.03.00_rhel9u4-1
183	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u4-1.x86_64.rpm	HPE_MR408i-p_Gen11	07.732.03.00	07.732.03.00_rhel9u4-1
184	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR416i-o_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
185	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR416i-p_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
186	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR216i-o_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
187	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR408i-o_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
188	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR216i-p_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
189	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus Controllers and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p, MR408i-p Gen11 Controllers Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.732.03.00_rhel9u5-1.x86_64.rpm	HPE_MR408i-p_Gen11	07.732.03.00	07.732.03.00_rhel9u5-1
190	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 2019 edition	cp064818.exe	HPE_MR416i-o_Gen11	7.732.3.0	7.732.3.0
191	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o,	cp064818.exe	HPE_MR416i-p_Gen11	7.732.3.0	7.732.3.0

	MR216i-p, MR408i-o , MR408i-p Gen11 Controllers Driver for Microsoft Windows 2019 edition				
192	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 2019 edition	cp064818.exe	HPE_MR216i-o_Gen11	7.732.3.0	7.732.3.0
193	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 2019 edition	cp064818.exe	HPE_MR408i-o_Gen11	7.732.3.0	7.732.3.0
194	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 2019 edition	cp064818.exe	HPE_MR216i-p_Gen11	7.732.3.0	7.732.3.0
195	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 2019 edition	cp064818.exe	HPE_MR408i-p_Gen11	7.732.3.0	7.732.3.0
196	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR416i-o_Gen11	7.732.3.0	7.732.3.0
197	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR416i-p_Gen11	7.732.3.0	7.732.3.0
198	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR216i-o_Gen11	7.732.3.0	7.732.3.0
199	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR408i-o_Gen11	7.732.3.0	7.732.3.0
200	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR216i-p_Gen11	7.732.3.0	7.732.3.0
201	HPE MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2025 edition	cp064820.exe	HPE_MR408i-p_Gen11	7.732.3.0	7.732.3.0
202	HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere	cp067564.zip	HPE Smart Array E208e-p SR Gen10 Controller	2025.10.01	80.4862.0.104 - 1OEM.800.1.0

	8.0 (Driver Component).				.20613240
203	HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).	cp067564.zip	HPE SR932i-p Gen11	2025.10.01	80.4862.0.104 - 1OEM.800.1.0 .20613240
204	HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 9.0 (Driver Component).	cp067562.zip	HPE Smart Array E208e-p SR Gen10 Controller	2025.09.01	90.4862.0.104 - 1OEM.900.0.2 4755229
205	HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 9.0 (Driver Component).	cp067562.zip	HPE SR932i-p Gen11	2025.09.01	90.4862.0.104 - 1OEM.900.0.2 4755229
206	HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 9 (64-bit)	kmod-smartpqi-2.1.36-026.rhel9u5.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	2.1.36-026	2.1.36-026.rhel9u5
207	HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 9 (64-bit)	kmod-smartpqi-2.1.36-026.rhel9u5.x86_64.rpm	HPE SR932i-p Gen11	2.1.36-026	2.1.36-026.rhel9u5
208	HPE Smart Array Gen10, Gen10Plus and Gen11 Controller Driver for Windows Server 2019, Windows Server 2022 and Windows Server 2025	cp067563.exe	HPE Smart Array E208e-p SR Gen10 Controller	1016.24.0.1002	1016.24.0.1002
209	HPE Smart Array Gen10, Gen10Plus and Gen11 Controller Driver for Windows Server 2019, Windows Server 2022 and Windows Server 2025	cp067563.exe	HPE SR932i-p Gen11	1016.24.0.1002	1016.24.0.1002
210	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR416i-o_Gen11	7.732.3.0	7.732.3.0
211	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR416i-p_Gen11	7.732.3.0	7.732.3.0
212	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR216i-o_Gen11	7.732.3.0	7.732.3.0
213	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR408i-o_Gen11	7.732.3.0	7.732.3.0
214	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR216i-p_Gen11	7.732.3.0	7.732.3.0
215	MR416i-p, MR416i-a, MR216i-p, MR216i-a Gen10p Controllers and MR416i-o, MR416i-p, MR216i-o, MR216i-p, MR408i-o , MR408i-p Gen11 Controllers driver for Microsoft Windows 2022 edition	cp064819.exe	HPE_MR408i-p_Gen11	7.732.3.0	7.732.3.0

6.2.7 Driver - Storage Fibre Channel and Fibre Channel over Ethernet

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
216	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp067032.exe	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
217	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp067032.exe	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
218	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp067032.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
219	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp067032.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
220	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp067033.exe	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
221	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp067033.exe	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
222	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp067033.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
223	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp067033.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
224	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2025	cp067034.exe	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
225	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2025	cp067034.exe	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
226	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2025	cp067034.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
227	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2025	cp067034.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.4.393.20 (b)	14.4.393.20
228	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019	cp066353.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.11.20 (b)	9.4.11.20
229	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019	cp066353.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.11.20 (b)	9.4.11.20
230	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022	cp064036.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.11.20	9.4.11.20
231	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022	cp064036.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.11.20	9.4.11.20
232	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2025	cp066355.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.11.20 (b)	9.4.11.20
233	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2025	cp066355.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.11.20 (b)	9.4.11.20
234	Red Hat Enterprise Linux 9 Update 5 Server Fibre Channel Driver Kit for HPE	kmod-elx-lpfc-14.4.473.24-	HPE SN1700E 64Gb Dual Port Fibre	14.4.473.24	14.4.473.24-1.rhel9u5

	Emulex Host Bus Adapter	1.rhel9u5.x86_64.rpm	Channel Host Bus Adapter		
235	Red Hat Enterprise Linux 9 Update 5 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapter	kmod-elx-lpfc-14.4.473.24-1.rhel9u5.x86_64.rpm	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.4.473.24	14.4.473.24-1.rhel9u5
236	Red Hat Enterprise Linux 9 Update 5 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapter	kmod-elx-lpfc-14.4.473.24-1.rhel9u5.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.4.473.24	14.4.473.24-1.rhel9u5
237	Red Hat Enterprise Linux 9 Update 5 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapter	kmod-elx-lpfc-14.4.473.24-1.rhel9u5.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.4.473.24	14.4.473.24-1.rhel9u5
238	Red Hat Enterprise Linux 9 Update 5 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.14.00_k1-1.rhel9u5.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	10.02.14.00-k1	10.02.14.00_k1-1.rhel9u5
239	Red Hat Enterprise Linux 9 Update 5 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.14.00_k1-1.rhel9u5.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	10.02.14.00-k1	10.02.14.00_k1-1.rhel9u5

6.2.8 Driver - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
240	Broadcom PCIe Switch Management Driver for Microsoft Windows Server 2019	cp060564.exe	-	2.61.54.0 (B)	2.61.54.0
241	iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2019	cp059558.exe	-	4.7.1.0 (D)	4.7.1.0
242	iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2022	cp068360.exe	-	4.7.1.0 (H)	4.7.1.0
243	iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2025	cp068362.exe	-	4.7.2.0 (F)	4.7.2.0
244	iLO 6 Channel Interface Driver for Microsoft Windows Server 2019	cp059557.exe	-	4.7.1.0 (D)	4.7.1.0
245	iLO 6 Channel Interface Driver for Microsoft Windows Server 2022	cp068359.exe	-	4.7.1.0 (H)	4.7.1.0
246	iLO 6 Channel Interface Driver for Microsoft Windows Server 2025	cp068361.exe	-	4.7.2.0 (F)	4.7.2.0

6.2.9 Driver – Video

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

6.2.10 Firmware - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
248	Language Pack - Japanese	firmware-ilo6-lpk-ja-ri11-1.70-2.1.x86_64.rpm	-	1.70 (B)	1.70.21
249	Online Flash Component for Windows x64 - HPE Integrated Lights-Out 6 Japanese Language Pack	cp068820.exe	-	1.70 (B)	1.70.21 Sep 16 2025
250	Online ROM Flash Component for Windows x64 - iLO 6	cp067713.exe	-	1.70	1.70 Aug 11 2025
251	Online ROM Flash Firmware Package - iLO 6	ilo6_170.fwpkg	-	1.70	1.70 Aug 11 2025

6.2.11 Firmware – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
252	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57414 10/25GbE 2p SFP28 Adptr	233.1.135.7	233.1.135.7
253	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	233.1.135.7	233.1.135.7
254	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57416 10GbE 2p BASE-T Adptr	233.1.135.7	233.1.135.7
255	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	233.1.135.7	233.1.135.7
256	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57412 10GbE 2p SFP+ Adptr	233.1.135.7	233.1.135.7
257	Broadcom Firmware Package for BCM5741x adapters	bcm233.1.135.7.pup.fwpkg	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	233.1.135.7	233.1.135.7
258	Broadcom Firmware Package for BCM5750x adapters	bcm233.1.135.7_Thor.pup.fwpkg	BCM 57504 10/25GbE 4p SFP28 Adptr	233.1.135.7	233.1.135.7
259	Broadcom Firmware Package for BCM5750x adapters	bcm233.1.135.7_Thor.pup.fwpkg	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	233.1.135.7	233.1.135.7
260	Broadcom Firmware Package for BCM57608 100GbE 2p Adapter	BCM233.1.135.7_BCM957608-P2100HQF00.fwpkg	Broadcom NetXtreme-E BCM57608 100GbE 2p QSFP112 Adptr	233.1.135.7	233.1.135.7
261	Broadcom Firmware Package for BCM57608 100GbE 2p OCP3 Adapter	BCM233.1.135.7_BCM957608-N2100HQI00.fwpkg	Broadcom NetXtreme-E BCM57608 100GbE QSFP112 OCP3 Adptr	233.1.135.7	233.1.135.7
262	Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-bcm-open-2.41.0-1.1.x86_64.rpm	BCM 5719 1GbE 4p BASE-T LOM Adptr	2.41.0	20.33.41
263	Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-bcm-open-2.41.0-1.1.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	2.41.0	20.33.41
264	Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-bcm-open-2.41.0-1.1.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	2.41.0	20.33.41
265	Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-bcm-open-2.41.0-1.1.x86_64.rpm	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	2.41.0	20.33.41
266	Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP066652.zip	BCM 5719 1GbE 4p BASE-T LOM Adptr	1.42.0	20.33.41
267	Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP066652.zip	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	1.42.0	20.33.41
268	Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP066652.zip	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	1.42.0	20.33.41
269	Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP066652.zip	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	1.42.0	20.33.41
270	Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp067896.exe	BCM 5719 1GbE 4p BASE-T LOM Adptr	5.4.5.0 (B)	20.33.41
271	Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp067896.exe	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	5.4.5.0 (B)	20.33.41

272	Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp067896.exe	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	5.4.5.0 (B)	20.33.41
273	Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp067896.exe	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	5.4.5.0 (B)	20.33.41
274	Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter	HPE_E810_CQDA2_4p80_PLDMoMCTP_80020543.fwpkg	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	4.80	4.80
275	Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter	HPE_E810_CQDA2_OCP_4p80_NCSIwPLDMoMCTP_8002053D.fwpkg	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	4.80	4.80
276	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter	HPE_E810_XXVDA2_SD_4p80_PLDMoMCTP_8002053C.fwpkg	Intel E810-XXVDA2 adapter	4.80	4.80
277	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter	HPE_E810_XXVDA2_SD_OCP_4p80_NCSIwPLDMoMCTP_80020544.fwpkg	Intel E810-XXVDA2 OCP3 adapter	4.80	4.80
278	Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter	HPE_E810_XXVDA4_FH_4p80_PLDMoMCTP_80020540.fwpkg	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	4.80	4.80
279	Intel Online Firmware Upgrade Utility for VMware	CP067472.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	3.27.0	1.3815.0
280	Intel Online Firmware Upgrade Utility for VMware	CP067472.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	3.27.0	1.3815.0
281	Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp067471.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	5.4.5.0	1.3815.0
282	Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp067471.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	5.4.5.0	1.3815.0
283	Mellanox Firmware Package (FWPKG) for HPE Ethernet 100Gb 1-port QSFP28 PCIe3 x16 MCX515A-CCAT Adapter : HPE part numbers P31246-B21 and P31246-H21	16_35_4506-MCX515A-CCA_HPE_Ax.pldm.fwpkg	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	16.35.4506	16.35.4506
284	NVIDIA Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	26_45_1020-MCX631102AS-ADA_Ax.pldm.fwpkg	MLX MCX631102 10/25GbE 2p SFP28 Adptr	26.45.1020	26.45.1020
285	NVIDIA Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	26_45_1020-MCX631432AS-ADA_Ax.pldm.fwpkg	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	26.45.1020	26.45.1020
286	NVIDIA Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter : HPE part numbers P23666-B21 and P23666-H21	20_43_2566-MCX653106A-ECA_HPE_Ax.pldm.fwpkg	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	20.43.2566	20.43.2566
287	NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter : HPE part numbers P45641-B21 and P45641-H21	28_45_1200-MCX75310AAS-NEAT_HPE_Ax.pldm.fwpkg	HPE IB NDR 1p OSFP MCX75310AAS Adptr	28.45.1200	28.45.1200
288	NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR/Ethernet 400Gb 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter : HPE part numbers P45641-B23 and P45641-H23	28_45_1200-MCX75310AAS-NEAT_HPE2_Ax.pldm.fwpkg	HPE IB NDR/EN 400G 1p OSFP Adptr	28.45.1200	28.45.1200

289	NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200Gb 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter : HPE part numbers P45642-B22 and P45642-H22	28_45_1200-MCX75310AAS-HEAT_HPE2_Ax.pldm.fwpkg	HPE IB NDR200/EN 200G 1p OSFP Adptr	28.45.1200	28.45.1200
290	NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR200/Ethernet 200GbE 2-port QSFP112 PCIe5 x16 MCX755106AC-HEAT Adapter : HPE part numbers P65333-B21 and P65333-H21	28_45_1200-MCX755106AC-HEAT_HPE_Ax.pldm.fwpkg	HPE IB NDR200/EN 200G 2p QSFP112 Adptr	28.45.1200	28.45.1200
291	NVIDIA Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	22_45_1020-MCX623106AS-CDA_Ax.pldm.fwpkg	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	22.45.1020	22.45.1020

6.2.12 Firmware - PCIe NVMe Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
292	Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF	Micron_7450_M7450ALLHPK4.fwpkg	VR000480KXNXE	HPK4	HPK4
293	Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF	Micron_7450_M7450ALLHPK4.fwpkg	VR000960KXNZU	HPK4	HPK4
294	Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF	Micron_7450_M7450ALLHPK4.fwpkg	VS001920KXNXF	HPK4	HPK4
295	Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	CP066269.zip	KCD6XLUL7T68	GPK8	GPK8
296	Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	CP066269.zip	KCD6XVUL6T40	GPK8	GPK8
297	Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	CP066269.zip	KCD6XVUL1T60	GPK8	GPK8
298	Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	CP066269.zip	KCD6XVUL800G	GPK8	GPK8
299	Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	CP066269.zip	KCD6XVUL3T20	GPK8	GPK8
300	Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20,	CP066269.zip	KCD6XVUL12T8	GPK8	GPK8

	KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives				
301	Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	CP066269.zip	KCD6XLUL960G	GPK8	GPK8
302	Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	CP066269.zip	KCD6XLUL1T92	GPK8	GPK8
303	Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	CP066269.zip	KCD6XLUL3T84	GPK8	GPK8
304	Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	CP066269.zip	KCD6XLUL15T3	GPK8	GPK8
305	Online NVMe SSD Flash Component for VMware ESXi - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives	CP066263.zip	KCM6FRUL1T92	GPK6	GPK6
306	Online NVMe SSD Flash Component for VMware ESXi - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives	CP066263.zip	KCM6FRUL3T84	GPK6	GPK6
307	Online NVMe SSD Flash Component for VMware ESXi - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives	CP066263.zip	KCM6FVUL3T20	GPK6	GPK6
308	Online NVMe SSD Flash Component for VMware ESXi - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives	CP066263.zip	KCM6FVUL1T60	GPK6	GPK6
309	Online NVMe SSD Flash Component for VMware ESXi - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	CP066266.zip	KCM6XRUL960G	GPK8	GPK8
310	Online NVMe SSD Flash Component for VMware ESXi - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	CP066266.zip	KCM6XRUL7T68	GPK8	GPK8
311	Online NVMe SSD Flash Component for VMware ESXi - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	CP066266.zip	KCM6XRUL1T92	GPK8	GPK8

312	Online NVMe SSD Flash Component for VMware ESXi - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	CP066266.zip	KCM6XVUL3T20	GPK8	GPK8
313	Online NVMe SSD Flash Component for VMware ESXi - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	CP066266.zip	KCM6XRUL3T84	GPK8	GPK8
314	Online NVMe SSD Flash Component for VMware ESXi - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	CP066266.zip	KCM6XVUL800G	GPK8	GPK8
315	Online NVMe SSD Flash Component for VMware ESXi - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	CP066266.zip	KCM6XVUL6T40	GPK8	GPK8
316	Online NVMe SSD Flash Component for VMware ESXi - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	CP066266.zip	KCM6XVUL1T60	GPK8	GPK8
317	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP065946.zip	VO001920KYDMT	HPK6 (B)	HPK6
318	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP065946.zip	VO003840KYDMV	HPK6 (B)	HPK6
319	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP065946.zip	MO001600KYDMU	HPK6 (B)	HPK6
320	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP065946.zip	MO006400KYDND	HPK6 (B)	HPK6
321	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP065946.zip	VO015360KYDNB	HPK6 (B)	HPK6
322	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP065946.zip	VO007680KYDNA	HPK6 (B)	HPK6

323	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP065946.zip	MO003200KYDNC	HPK6 (B)	HPK6
324	Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	cp066267.exe	KCD6XLUL7T68	GPK8	GPK8
325	Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	cp066267.exe	KCD6XVUL6T40	GPK8	GPK8
326	Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	cp066267.exe	KCD6XVUL1T60	GPK8	GPK8
327	Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	cp066267.exe	KCD6XVUL800G	GPK8	GPK8
328	Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	cp066267.exe	KCD6XVUL3T20	GPK8	GPK8
329	Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	cp066267.exe	KCD6XVUL12T8	GPK8	GPK8
330	Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	cp066267.exe	KCD6XLUL960G	GPK8	GPK8
331	Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	cp066267.exe	KCD6XLUL1T92	GPK8	GPK8
332	Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8,	cp066267.exe	KCD6XLUL3T84	GPK8	GPK8

	KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives				
333	Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives	cp066267.exe	KCD6XLUL15T3	GPK8	GPK8
334	Online NVMe SSD Flash Component for Windows (x64) - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives	cp066261.exe	KCM6FRUL1T92	GPK6	GPK6
335	Online NVMe SSD Flash Component for Windows (x64) - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives	cp066261.exe	KCM6FRUL3T84	GPK6	GPK6
336	Online NVMe SSD Flash Component for Windows (x64) - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives	cp066261.exe	KCM6FVUL3T20	GPK6	GPK6
337	Online NVMe SSD Flash Component for Windows (x64) - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives	cp066261.exe	KCM6FVUL1T60	GPK6	GPK6
338	Online NVMe SSD Flash Component for Windows (x64) - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	cp066264.exe	KCM6XRUL960G	GPK8	GPK8
339	Online NVMe SSD Flash Component for Windows (x64) - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	cp066264.exe	KCM6XRUL7T68	GPK8	GPK8
340	Online NVMe SSD Flash Component for Windows (x64) - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	cp066264.exe	KCM6XRUL1T92	GPK8	GPK8
341	Online NVMe SSD Flash Component for Windows (x64) - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	cp066264.exe	KCM6XVUL3T20	GPK8	GPK8
342	Online NVMe SSD Flash Component for Windows (x64) - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	cp066264.exe	KCM6XRUL3T84	GPK8	GPK8
343	Online NVMe SSD Flash Component for Windows (x64) - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	cp066264.exe	KCM6XVUL800G	GPK8	GPK8
344	Online NVMe SSD Flash Component for Windows (x64) - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G,	cp066264.exe	KCM6XVUL6T40	GPK8	GPK8

	KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives				
345	Online NVMe SSD Flash Component for Windows (x64) - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives	cp066264.exe	KCM6XVUL1T60	GPK8	GPK8
346	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp064857.exe	MO001600KYDMU	HPK6 (B)	HPK6
347	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp064857.exe	MO006400KYDND	HPK6 (B)	HPK6
348	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp064857.exe	VO015360KYDNB	HPK6 (B)	HPK6
349	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp064857.exe	VO007680KYDNA	HPK6 (B)	HPK6
350	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp064857.exe	MO003200KYDNC	HPK6 (B)	HPK6
351	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp064857.exe	VO001920KYDMT	HPK6 (B)	HPK6
352	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp064857.exe	VO003840KYDMV	HPK6 (B)	HPK6
353	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO000800KXPRV	HPK2	HPK2
354	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO001600KXPTR	HPK2	HPK2
355	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	MO003200KXPTT	HPK2	HPK2
356	Universal Firmware Package for Drives -	SKHynix_PE81X0_KPE	MO006400KXPTU	HPK2	HPK2

	MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	81X0AHPK2.fwpkg			
357	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO000960KXPRU	HPK2	HPK2
358	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO001920KXPTN	HPK2	HPK2
359	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO003840KXPTP	HPK2	HPK2
360	Universal Firmware Package for Drives - MO000800KXPRV, MO001600KXPTR, MO003200KXPTT, MO006400KXPTU, VO000960KXPRU, VO001920KXPTN, VO003840KXPTP and VO007680KXPTQ	SKHynix_PE81X0_KPE81X0AHPK2.fwpkg	VO007680KXPTQ	HPK2	HPK2
361	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO000800KXUJT	HPK2	HPK2
362	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO001600KXUJU	HPK2	HPK2
363	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO003200KXUJV	HPK2	HPK2
364	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	MO006400KXUKA	HPK2	HPK2
365	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO000960KXUJN	HPK2	HPK2
366	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO001920KXUJP	HPK2	HPK2
367	Universal Firmware Package for Drives - MO000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO003840KXUJQ	HPK2	HPK2

368	Universal Firmware Package for Drives - MO0000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO007680KXUJR	HPK2	HPK2
369	Universal Firmware Package for Drives - MO0000800KXUJT, MO001600KXUJU, MO003200KXUJV, MO006400KXUKA, VO000960KXUJN, VO001920KXUJP, VO003840KXUJQ, VO007680KXUJR and VO015360KYGZQ	Kioxia_CD8_KACD8ALSHPK2.fwpkg	VO015360KYGZQ	HPK2	HPK2
370	Universal Firmware Package for Drives - MO0000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	MO006400KYDZU	HPK1	HPK1
371	Universal Firmware Package for Drives - MO0000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	MO003200KYDZT	HPK1	HPK1
372	Universal Firmware Package for Drives - MO0000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	MO001600KYDZR	HPK1	HPK1
373	Universal Firmware Package for Drives - MO0000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	MO0000800KYDZK	HPK1	HPK1
374	Universal Firmware Package for Drives - MO0000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	VO007680KYDZP	HPK1	HPK1
375	Universal Firmware Package for Drives - MO0000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	VO003840KYDZN	HPK1	HPK1
376	Universal Firmware Package for Drives - MO0000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	VO001920KYDZL	HPK1	HPK1
377	Universal Firmware Package for Drives - MO0000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	VO000960KYDZH	HPK1	HPK1
378	Universal Firmware Package for Drives - MO0000800KYDZK, MO001600KYDZR, MO003200KYDZT, MO006400KYDZU, VO000960KYDZH, VO001920KYDZL, VO003840KYDZN, VO001536KYDZQ and VO007680KYDZP	Micron_7500_Micron_7500_M7500ALLHPK1.fwpkg	VO001536KYDZQ	HPK1	HPK1

379	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	MO001600KXVYH	HPK3	HPK3
380	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	MO003200KXVZD	HPK3	HPK3
381	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	MO006400KXVZE	HPK3	HPK3
382	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	VO001920KXVYF	HPK3	HPK3
383	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	VO003840KXVZA	HPK3	HPK3
384	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	VO007680KXVZB	HPK3	HPK3
385	Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC	Kioxia_CM7_KACM7ALSHPK3.fwpkg	VO015360KXVZC	HPK3	HPK3
386	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO015360KYFER	HPK2	HPK2
387	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO007680KYFEQ	HPK2	HPK2
388	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO003840KYFEP	HPK2	HPK2
389	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	VO001920KYFFE	HPK2	HPK2
390	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	MO006400KYFEU	HPK2	HPK2
391	Universal Firmware Package for Drives - MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	SKHynix_PS10x0_KPS10x0U3DK2.fwpkg	MO003200KYFET	HPK2	HPK2
392	Universal Firmware Package for Drives -	SKHynix_PS10x0_KPS	MO001600KYFFF	HPK2	HPK2

	MO001600KYFFF, MO003200KYFET, MO006400KYFEU, VO001920KYFFE, VO003840KYFEP, VO007680KYFEQ and VO015360KYFER	10x0U3DK2.fwpkg			
393	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	MO001600KZYWU	HPK5	HPK5
394	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	MO003200KZYXB	HPK5	HPK5
395	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	MO006400KZYXC	HPK5	HPK5
396	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	VO001920KZYWT	HPK5	HPK5
397	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	VO003840KZYWV	HPK5	HPK5
398	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAA HPK5.fwpkg	VO007680KZYXA	HPK5	HPK5
399	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	MO001600YXUJB	HPK3	HPK3
400	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	MO003200YXUJC	HPK3	HPK3
401	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	MO006400YXUJD	HPK3	HPK3
402	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	VO001920YXUHU	HPK3	HPK3
403	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	VO003840YXUHV	HPK3	HPK3
404	Universal Firmware Package for Drives - MO001600YXUJB, MO003200YXUJC, MO006400YXUJD, VO001920YXUHU, VO003840YXUHV and VO007680YXUJA	Kioxia_CM7_KACM7A LFHPK3.fwpkg	VO007680YXUJA	HPK3	HPK3
405	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8A LEHPK3.fwpkg	VV015360LYHDC	HPK3	HPK3
406	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8A LEHPK3.fwpkg	MV006400LYCBB	HPK3	HPK3
407	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and	Kioxia_CD8P_KACD8A LEHPK3.fwpkg	MV003200LYCBA	HPK3	HPK3

	VV007680LYCAV				
408	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	MV001600LYCBT	HPK3	HPK3
409	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	VV001920LYCBR	HPK3	HPK3
410	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	VV003840LYCAU	HPK3	HPK3
411	Universal Firmware Package for Drives - MV001600LYCBT, MV003200LYCBA, MV006400LYCBB, VV015360LYHDC, VV001920LYCBR, VV003840LYCAU and VV007680LYCAV	Kioxia_CD8P_KACD8ALEHPK3.fwpkg	VV007680LYCAV	HPK3	HPK3
412	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	MV003200KYFFK	HPK3	HPK3
413	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	MV006400KYFFA	HPK3	HPK3
414	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	MV012800KYFFB	HPK3	HPK3
415	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	VV003840KYFFH	HPK3	HPK3
416	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	VV007680KYFFL	HPK3	HPK3
417	Universal Firmware Package for Drives - MV003200KYFFK, MV006400KYFFA, MV012800KYFFB, VV003840KYFFH, VV007680KYFFL and VV015360KYFEV	SKHynix_PS10x0_KPS10x0E3SK3.fwpkg	VV015360KYFEV	HPK3	HPK3
418	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	MV003200LXUJK	HPK7	HPK7
419	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	MV006400LXUJL	HPK7	HPK7
420	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	VV003840LXUJE	HPK7	HPK7
421	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	VV007680LXUJF	HPK7	HPK7
422	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALEHPK7.fwpkg	VV015360LXUJH	HPK7	HPK7
423	Universal Firmware Package for Drives -	Kioxia_CM7_KACM7A	MV003200LYJKH	HPK4	HPK4

	MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	EFHPK4.fwpkg			
424	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	MV006400LYJKK	HPK4	HPK4
425	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	VV007680LYJKF	HPK4	HPK4
426	Universal Firmware Package for Drives - MV003200LYJKH, MV006400LYJKK, VV007680LYJKF and VV015360LYXMT	Kioxia_CM7_KACM7AEFHPK4.fwpkg	VV015360LYXMT	HPK4	HPK4
427	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK5.fwpkg	VK000960KYDPT	HPK5	HPK5
428	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK5.fwpkg	VK001920KYDPU	HPK5	HPK5
429	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK5.fwpkg	VK003840KYDPV	HPK5	HPK5
430	Universal Firmware Package for Drives - VK000960KYDPT, VK001920KYDPU, VK003840KYDPV and VK007680KYDQA	Samsung_PM9A3_GPM9A3SAHPK5.fwpkg	VK007680KYDQA	HPK5	HPK5
431	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO001920KXNZQ	HPS3	HPS3
432	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO003840KXNZR	HPS3	HPS3
433	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	VO007680KXNZT	HPS3	HPS3
434	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO000800KXNXH	HPS3	HPS3
435	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO001600KXNZV	HPS3	HPS3
436	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO003200KXPAA	HPS3	HPS3
437	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	Micron_7450_Micron_7450_M7450ALLHPS3.fwpkg	MO006400KXPAB	HPS3	HPS3
438	Universal Firmware Package for Drives -	Micron_7450_Micron	VO000960KXNXD	HPS3	HPS3

	VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and MO006400KXPAB	_7450_M7450ALLHPS3.fwpkg			
439	Universal Firmware Package for Drives - VR000480KXLXF	Samsung_PM9A3_GPM9A3SAHPK4.fwpkg	VR000480KXLXF	HPK4	HPK4
440	Universal Firmware Package for Drives - VR000480KYXPQ, VR000960KYXQA and VR001920KYXQB	SKHynix_PE90X0_KPE9010IHPK2.fwpkg	VR000480KYXPQ	HPK2	HPK2
441	Universal Firmware Package for Drives - VR000480KYXPQ, VR000960KYXQA and VR001920KYXQB	SKHynix_PE90X0_KPE9010IHPK2.fwpkg	VR000960KYXQA	HPK2	HPK2
442	Universal Firmware Package for Drives - VR000480KYXPQ, VR000960KYXQA and VR001920KYXQB	SKHynix_PE90X0_KPE9010IHPK2.fwpkg	VR001920KYXQB	HPK2	HPK2
443	Universal Firmware Package for Drives - VR000960YYXPR	SKHynix_PE90X0_KPE9010SHPK2.fwpkg	VR000960YYXPR	HPK2	HPK2
444	Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV	Kioxia_CD7_KACD7ALSHPK6.fwpkg	VV001920LYDTT	HPK6	HPK6
445	Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV	Kioxia_CD7_KACD7ALSHPK6.fwpkg	VV003840LYDTU	HPK6	HPK6
446	Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV	Kioxia_CD7_KACD7ALSHPK6.fwpkg	VV007680LYDTV	HPK6	HPK6
447	Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP	Samsung_PM1743_GPM1743HPK6.fwpkg	VV003840KXNTH	HPK6	HPK6
448	Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP	Samsung_PM1743_GPM1743HPK6.fwpkg	VV007680KXNTN	HPK6	HPK6
449	Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP	Samsung_PM1743_GPM1743HPK6.fwpkg	VV015360KXNTP	HPK6	HPK6
450	Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN	Solidigm_P5x30_SP54304KHPK5.fwpkg	VV003840KXWBF	HPK5	HPK5
451	Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN	Solidigm_P5x30_SP54304KHPK5.fwpkg	VV007680KXWBL	HPK5	HPK5
452	Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN	Solidigm_P5x30_SP54304KHPK5.fwpkg	VV015360KXWBN	HPK5	HPK5

6.2.13 Firmware - Power Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version

6.2.14 Firmware - SAS Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
453	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	CP066752.zip	EG001200JWJNQ	HPD9	HPD9
454	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	CP066752.zip	EG000600JWJNP	HPD9	HPD9

455	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	CP066752.zip	EG001200MXJQU	HPD9	HPD9
456	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	CP066752.zip	EG000600JXLVV	HPD9	HPD9
457	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	CP066752.zip	EG001200JXLWA	HPD9	HPD9
458	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	CP067762.zip	EG001800JWJNR	HPDB (B)	HPDB
459	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	CP067762.zip	EG002400JWJNT	HPDB (B)	HPDB
460	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	CP067762.zip	EG002400MXJQT	HPDB (B)	HPDB
461	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	CP067762.zip	EG001800JXLWB	HPDB (B)	HPDB
462	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	CP067762.zip	EG002400JXLWC	HPDB (B)	HPDB
463	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP067698.zip	EO000800PXDCK	HPD5	HPD5
464	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP067698.zip	MO000800PXDBP	HPD5	HPD5
465	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP067698.zip	EO000400PXDBQ	HPD5	HPD5
466	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ,	CP067698.zip	EO001600PXDCH	HPD5	HPD5

	EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives				
467	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP067698.zip	MO001600PXDCC	HPD5	HPD5
468	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP067698.zip	MO006400PXDCE	HPD5	HPD5
469	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP067698.zip	VO007680PXDBU	HPD5	HPD5
470	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP067698.zip	VO001920PXDBR	HPD5	HPD5
471	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP067698.zip	VO015300PXDBV	HPD5	HPD5
472	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP067698.zip	MO003200PXDCD	HPD5	HPD5
473	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP067698.zip	VO000960PXDBN	HPD5	HPD5
474	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC,	CP067698.zip	VO003840PXDBT	HPD5	HPD5

	MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives				
475	Online HDD/SSD Flash Component for VMware ESXi - MB002000JYDNE and MB004000JYDPB Drives	CP067621.zip	MB004000JYDPB	HPD6	HPD6
476	Online HDD/SSD Flash Component for VMware ESXi - MB002000JYDNE and MB004000JYDPB Drives	CP067621.zip	MB002000JYDNE	HPD6	HPD6
477	Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB and MB002000JWWQA Drives	CP066009.zip	MB004000JWWQB	HPD8 (C)	HPD8
478	Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB and MB002000JWWQA Drives	CP066009.zip	MB002000JWWQA	HPD8 (C)	HPD8
479	Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH Drives	CP067623.zip	MB006000JYDNF	HPD5	HPD5
480	Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH Drives	CP067623.zip	MB008000JYDPC	HPD5	HPD5
481	Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH Drives	CP067623.zip	MB010000JYDNH	HPD5	HPD5
482	Online HDD/SSD Flash Component for VMware ESXi - MB008000JWWQP and MB006000JWWQN Drives	CP066008.zip	MB006000JWWQN	HPD8 (C)	HPD8
483	Online HDD/SSD Flash Component for VMware ESXi - MB008000JWWQP and MB006000JWWQN Drives	CP066008.zip	MB008000JWWQP	HPD8 (C)	HPD8
484	Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	CP066010.zip	MB010000JWZHA	HPD4 (C)	HPD4
485	Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	CP066010.zip	MB012000JWZHB	HPD4 (C)	HPD4
486	Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	CP066010.zip	MB016000JWZHE	HPD4 (C)	HPD4
487	Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	CP066010.zip	MB014000JWZHC	HPD4 (C)	HPD4
488	Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	CP067287.zip	MB010000JYDKK	HPD6	HPD6
489	Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	CP067287.zip	MB012000JYCJF	HPD6	HPD6
490	Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	CP067287.zip	MB014000JYCJV	HPD6	HPD6
491	Online HDD/SSD Flash Component for	CP067287.zip	MB016000JYDKL	HPD6	HPD6

	VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives				
492	Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	CP067287.zip	MB018000JYDKN	HPD6	HPD6
493	Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	CP065973.zip	MB012000JZYVN	HPD4 (C)	HPD4
494	Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	CP065973.zip	MB014000JZYVP	HPD4 (C)	HPD4
495	Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	CP065973.zip	MB016000JZYVQ	HPD4 (C)	HPD4
496	Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	CP065973.zip	MB018000JYCLK	HPD4 (C)	HPD4
497	Online HDD/SSD Flash Component for VMware ESXi - MB014000JXUCC Drive	CP065932.zip	MB014000JXUCC	HPD4 (C)	HPD4
498	Online HDD/SSD Flash Component for VMware ESXi - MB016000JWXKH Drive	CP065940.zip	MB016000JWXKH	HPDC (B)	HPDC
499	Online HDD/SSD Flash Component for VMware ESXi - MB016000JXLBA and MB018000JXLAU Drives	CP065993.zip	MB016000JXLBA	HPD3 (C)	HPD3
500	Online HDD/SSD Flash Component for VMware ESXi - MB016000JXLBA and MB018000JXLAU Drives	CP065993.zip	MB018000JXLAU	HPD3 (C)	HPD3
501	Online HDD/SSD Flash Component for VMware ESXi - MB018000JXMTH and MB020000JXMTP Drives	CP065976.zip	MB018000JXMTH	HPD3 (B)	HPD3
502	Online HDD/SSD Flash Component for VMware ESXi - MB018000JXMTH and MB020000JXMTP Drives	CP065976.zip	MB020000JXMTP	HPD3 (B)	HPD3
503	Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives	CP066004.zip	MM1000JEFRB	HPDA (E)	HPDA
504	Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives	CP066004.zip	MM2000JEFRC	HPDA (E)	HPDA
505	Online HDD/SSD Flash Component for VMware ESXi - MM1000JFJTH Drive	CP066005.zip	MM1000JFJTH	HPD5 (E)	HPD5
506	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP065957.zip	VO007680RWUFC	HPD8 (C)	HPD8
507	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP065957.zip	VO003840RWUFF	HPD8 (C)	HPD8
508	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and	CP065957.zip	VO003840RWUFB	HPD8 (C)	HPD8

	VO003840RWUFF Drives				
509	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP065957.zip	VO001920RWUFE	HPD8 (C)	HPD8
510	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP065957.zip	VO001920RWUFA	HPD8 (C)	HPD8
511	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP065957.zip	VO000960RWUFD	HPD8 (C)	HPD8
512	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP065957.zip	VO000960RWUEV	HPD8 (C)	HPD8
513	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	cp066754.exe	EG001200MXJQU	HPD9	HPD9
514	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	cp066754.exe	EG000600JXLVV	HPD9	HPD9
515	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	cp066754.exe	EG001200JXLWA	HPD9	HPD9
516	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	cp066754.exe	EG000600JWJNP	HPD9	HPD9
517	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	cp066754.exe	EG001200JWJNQ	HPD9	HPD9
518	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	cp067753.exe	EG001800JWJNR	HPDB (B)	HPDB
519	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	cp067753.exe	EG002400JWJNT	HPDB (B)	HPDB
520	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	cp067753.exe	EG002400MXJQT	HPDB (B)	HPDB
521	Online HDD/SSD Flash Component for	cp067753.exe	EG001800JXLWB	HPDB (B)	HPDB

	Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives				
522	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	cp067753.exe	EG002400JXLWC	HPDB (B)	HPDB
523	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	EO000800PXDCK	HPD5	HPD5
524	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	MO000800PXDBP	HPD5	HPD5
525	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	EO000400PXDBQ	HPD5	HPD5
526	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	EO001600PXDCH	HPD5	HPD5
527	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	MO001600PXDCC	HPD5	HPD5
528	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	MO006400PXDCE	HPD5	HPD5
529	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	VO007680PXDBU	HPD5	HPD5
530	Online HDD/SSD Flash Component for	cp067699.exe	VO001920PXDBR	HPD5	HPD5

	Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives				
531	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	VO015300PXDBV	HPD5	HPD5
532	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	MO003200PXDCD	HPD5	HPD5
533	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	VO000960PXDBN	HPD5	HPD5
534	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp067699.exe	VO003840PXDBT	HPD5	HPD5
535	Online HDD/SSD Flash Component for Windows (x64) - MB002000JYDNE and MB004000JYDPB Drives	cp067620.exe	MB004000JYDPB	HPD6	HPD6
536	Online HDD/SSD Flash Component for Windows (x64) - MB002000JYDNE and MB004000JYDPB Drives	cp067620.exe	MB002000JYDNE	HPD6	HPD6
537	Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB and MB002000JWWQA Drives	cp065081.exe	MB004000JWWQB	HPD8 (D)	HPD8
538	Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB and MB002000JWWQA Drives	cp065081.exe	MB002000JWWQA	HPD8 (D)	HPD8
539	Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH Drives	cp067624.exe	MB006000JYDNF	HPD5	HPD5
540	Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH Drives	cp067624.exe	MB008000JYDPC	HPD5	HPD5
541	Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH Drives	cp067624.exe	MB010000JYDNH	HPD5	HPD5
542	Online HDD/SSD Flash Component for Windows (x64) - MB008000JWWQP and MB006000JWWQN Drives	cp065080.exe	MB006000JWWQN	HPD8 (D)	HPD8

543	Online HDD/SSD Flash Component for Windows (x64) - MB008000JWWQP and MB006000JWWQN Drives	cp065080.exe	MB008000JWWQP	HPD8 (D)	HPD8
544	Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	cp065082.exe	MB010000JWZHA	HPD4 (D)	HPD4
545	Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	cp065082.exe	MB012000JWZHB	HPD4 (D)	HPD4
546	Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	cp065082.exe	MB014000JWZHC	HPD4 (D)	HPD4
547	Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	cp065082.exe	MB016000JWZHE	HPD4 (D)	HPD4
548	Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	cp067288.exe	MB010000JYDKK	HPD6	HPD6
549	Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	cp067288.exe	MB012000JYCJF	HPD6	HPD6
550	Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	cp067288.exe	MB014000JYCJV	HPD6	HPD6
551	Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	cp067288.exe	MB016000JYDKL	HPD6	HPD6
552	Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	cp067288.exe	MB018000JYDKN	HPD6	HPD6
553	Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	cp065024.exe	MB012000JZYVN	HPD4 (C)	HPD4
554	Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	cp065024.exe	MB014000JZYVP	HPD4 (C)	HPD4
555	Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	cp065024.exe	MB016000JZYVQ	HPD4 (C)	HPD4
556	Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	cp065024.exe	MB018000JYCLK	HPD4 (C)	HPD4
557	Online HDD/SSD Flash Component for Windows (x64) - MB014000JXUCC Drive	cp065036.exe	MB014000JXUCC	HPD4 (C)	HPD4
558	Online HDD/SSD Flash Component for Windows (x64) - MB016000JWXKH Drive	cp065031.exe	MB016000JWXKH	HPDC (B)	HPDC
559	Online HDD/SSD Flash Component for	cp065020.exe	MB016000JXLBA	HPD3 (C)	HPD3

	Windows (x64) - MB016000JXLBA and MB018000JXLAU Drives				
560	Online HDD/SSD Flash Component for Windows (x64) - MB016000JXLBA and MB018000JXLAU Drives	cp065020.exe	MB018000JXLAU	HPD3 (C)	HPD3
561	Online HDD/SSD Flash Component for Windows (x64) - MB018000JXMTH and MB020000JXMTP Drives	cp065087.exe	MB020000JXMTP	HPD3 (B)	HPD3
562	Online HDD/SSD Flash Component for Windows (x64) - MB018000JXMTH and MB020000JXMTP Drives	cp065087.exe	MB018000JXMTH	HPD3 (B)	HPD3
563	Online HDD/SSD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives	cp065063.exe	MM1000JEFRB	HPDA (E)	HPDA
564	Online HDD/SSD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives	cp065063.exe	MM2000JEFRC	HPDA (E)	HPDA
565	Online HDD/SSD Flash Component for Windows (x64) - MM1000JFJTH Drive	cp065064.exe	MM1000JFJTH	HPD5 (E)	HPD5
566	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp065077.exe	VO007680RWUFC	HPD8 (C)	HPD8
567	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp065077.exe	VO003840RWUFF	HPD8 (C)	HPD8
568	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp065077.exe	VO003840RWUFB	HPD8 (C)	HPD8
569	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp065077.exe	VO001920RWUFE	HPD8 (C)	HPD8
570	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp065077.exe	VO001920RWUFA	HPD8 (C)	HPD8
571	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp065077.exe	VO000960RWUFD	HPD8 (C)	HPD8
572	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp065077.exe	VO000960RWUEV	HPD8 (C)	HPD8
573	Universal Firmware Package for Drives - MB004000JWZVU	Toshiba_MG08Air_TAMG08SDAnD3.fwpkg	MB004000JWZVU	HPD3 (B)	HPD3
574	Universal Firmware Package for Drives - MB006000JWZVQ and MB008000JWZVR	Toshiba_MG08Air_TAMG08SDAeD3.fwpkg	MB006000JWZVQ	HPD3 (B)	HPD3

575	Universal Firmware Package for Drives - MB006000JWZVQ and MB008000JWZVR	Toshiba_MG08Air_TAMG08SDAeD3.fwpkg	MB008000JWZVR	HPD3 (B)	HPD3
576	Universal Firmware Package for Drives - MB020000JXMVU	WDC_ParisD_WparisdASFD1.fwpkg	MB020000JXMVU	HPD1 (B)	HPD1
577	Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD	Seagate_Summit_SUMMITSUSND1.fwpkg	MB12000JYESN	HPD1 (B)	HPD1
578	Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD	Seagate_Summit_SUMMITSUSND1.fwpkg	MB16000JYEVC	HPD1 (B)	HPD1
579	Universal Firmware Package for Drives - MB12000JYESN, MB16000JYEVC, MB20000JYEVD	Seagate_Summit_SUMMITSUSND1.fwpkg	MB20000JYEVD	HPD1 (B)	HPD1
580	Universal Firmware Package for Drives - MB24000JYEVE	Seagate_Summit_SUMMITSUSSD1.fwpkg	MB24000JYEVE	HPD1 (B)	HPD1
581	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	MO000960RXKRC	HPD5 (B)	HPD5
582	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	MO001920RXKRH	HPD5 (B)	HPD5
583	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	MO003840RXKRK	HPD5 (B)	HPD5
584	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	VO000960RXKRB	HPD5 (B)	HPD5
585	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	VO001920RXKRD	HPD5 (B)	HPD5
586	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRK, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNGBPHPESD5.fwpkg	VO003840RXKRE	HPD5 (B)	HPD5
587	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	MO000960RXRQK	HPD4 (B)	HPD4
588	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	MO001920RXRRH	HPD4 (B)	HPD4
589	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	MO003840RXRRK	HPD4 (B)	HPD4
590	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO000960RXRQL	HPD4 (B)	HPD4
591	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO001920RXRRL	HPD4 (B)	HPD4
592	Universal Firmware Package for Drives -	Seagate_Cooper_SCO	VO003840RXRRN	HPD4 (B)	HPD4

	MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	OPRHPESD4.fwpkg			
593	Universal Firmware Package for Drives - MO000960RXRQK, MO001920RXRRH, MO003840RXRRK, VO000960RXRQL, VO001920RXRRL, VO003840RXRRN and VO007680RYEWD	Seagate_Cooper_SCOOPRHPESD4.fwpkg	VO007680RYEWD	HPD4 (B)	HPD4
594	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO015360PXMTU	HPD4	HPD4
595	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO007680PXMTT	HPD4	HPD4
596	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO003840PXMTR	HPD4	HPD4
597	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	VO001920PXMTL	HPD4	HPD4
598	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	MO006400PXMUA	HPD4	HPD4
599	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	MO003200PXMTV	HPD4	HPD4
600	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALSHPD4.fwpkg	MO001600PXMTN	HPD4	HPD4
601	Universal Firmware Package for Drives - MO001600PXVRU, VO003840PXVRR and VO007680PXVRT	Kioxia_PM7_KAPM7ALFHPD3.fwpkg	VO007680PXVRT	HPD3	HPD3
602	Universal Firmware Package for Drives - MO001600PXVRU, VO003840PXVRR and VO007680PXVRT	Kioxia_PM7_KAPM7ALFHPD3.fwpkg	VO003840PXVRR	HPD3	HPD3
603	Universal Firmware Package for Drives - MO001600PXVRU, VO003840PXVRR and VO007680PXVRT	Kioxia_PM7_KAPM7ALFHPD3.fwpkg	MO001600PXVRU	HPD3	HPD3
604	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO001600PZWSH	HPD4	HPD4
605	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO003200PZWSK	HPD4	HPD4
606	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GPM1655SAMD4.fwpkg	MO000800PZWSF	HPD4	HPD4
607	Universal Firmware Package for Drives -	Samsung_PM165X_G	MO006400PZXFA	HPD4	HPD4

	MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	PM1655SAMD4.fwpkg			
608	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO000960PZWSL	HPD4	HPD4
609	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO001920PZWSN	HPD4	HPD4
610	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO003840PZWSP	HPD4	HPD4
611	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO007680PZXFB	HPD4	HPD4
612	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSP, VO007680PZXFB and VO015360PZXEU	Samsung_PM165X_GPM1653SAMD4.fwpkg	VO015360PZXEU	HPD4	HPD4
613	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO000960RZWUP	HPD1 (B)	HPD1
614	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO000960RZWUQ	HPD1 (B)	HPD1
615	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO001920RZWUR	HPD1 (B)	HPD1
616	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO001920RZWUV	HPD1 (B)	HPD1
617	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO003840RZWUT	HPD1 (B)	HPD1
618	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO003840RZWVA	HPD1 (B)	HPD1
619	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZWUV, VO003840RZWUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALSHPD1.fwpkg	VO007680RZWUU	HPD1 (B)	HPD1

6.2.15 Firmware - SATA Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
620	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GWFWA and	CP065995.zip	MB004000GWFWB	HPG1 (K)	HPG1

	MB004000GWFWB Drives				
621	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	CP065995.zip	MB002000GWFWA	HPG1 (K)	HPG1
622	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	CP065995.zip	MB001000GWJAN	HPG1 (K)	HPG1
623	Online HDD/SSD Flash Component for VMware ESXi - MB004000GWKGV Drive	CP065987.zip	MB004000GWKGV	HPG1 (K)	HPG1
624	Online HDD/SSD Flash Component for VMware ESXi - MB006000GWKGR Drive	CP065934.zip	MB006000GWKGR	HPG1 (K)	HPG1
625	Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	CP067769.zip	MB010000GYDKP	HPG3	HPG3
626	Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	CP067769.zip	MB016000GYDKQ	HPG3	HPG3
627	Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	CP067769.zip	MB018000GYDKR	HPG3	HPG3
628	Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	CP067769.zip	MB012000GYCJL	HPG3	HPG3
629	Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	CP067769.zip	MB014000GYCJT	HPG3	HPG3
630	Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	CP065980.zip	MB012000GZYVT	HPG4 (C)	HPG4
631	Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	CP065980.zip	MB014000GZYVU	HPG4 (C)	HPG4
632	Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	CP065980.zip	MB016000GZYVV	HPG4 (C)	HPG4
633	Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	CP065980.zip	MB018000GYCLL	HPG4 (C)	HPG4
634	Online HDD/SSD Flash Component for VMware ESXi - MB016000GWXKK Drive	CP065948.zip	MB016000GWXKK	HPG4 (C)	HPG4
635	Online HDD/SSD Flash Component for VMware ESXi - MB018000GXMTK and MB020000GXMTQ Drives	CP065977.zip	MB020000GXMTQ	HPG3 (B)	HPG3
636	Online HDD/SSD Flash Component for VMware ESXi - MB018000GXMTK and MB020000GXMTQ Drives	CP065977.zip	MB018000GXMTK	HPG3 (B)	HPG3
637	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP065978.zip	MK003840GWXFL	HPG3 (C)	HPG3

638	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP065978.zip	MK001920GWXFK	HPG3 (C)	HPG3
639	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP065978.zip	MK000960GWXFH	HPG3 (C)	HPG3
640	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP065978.zip	MK000480GWXFF	HPG3 (C)	HPG3
641	Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives.	CP065947.zip	MK000480GZXRA	HPG1 (C)	HPG1
642	Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives.	CP065947.zip	MK001920GZXRC	HPG1 (C)	HPG1
643	Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives.	CP065947.zip	MK000960GZXRB	HPG1 (C)	HPG1
644	Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives.	CP065947.zip	MK003840GZXRV	HPG1 (C)	HPG1
645	Online HDD/SSD Flash Component for VMware ESXi - MM1000GFJTE Drive	CP066002.zip	MM1000GFJTE	HPG6 (E)	HPG6
646	Online HDD/SSD Flash Component for VMware ESXi - MM2000GEFRA Drive	CP066001.zip	MM2000GEFRA	HPG9 (E)	HPG9
647	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP065970.zip	VK003840GWTTD	HPG7 (D)	HPG7
648	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP065970.zip	MK003840GWTTN	HPG7 (D)	HPG7
649	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP065970.zip	VK001920GWTTC	HPG7 (D)	HPG7
650	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP065970.zip	MK001920GWTTL	HPG7 (D)	HPG7
651	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and	CP065970.zip	VK000960GWTTB	HPG7 (D)	HPG7

	MK003840GWTTN Drives				
652	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP065970.zip	MK000960GWTTK	HPG7 (D)	HPG7
653	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP065970.zip	VK000480GWTTA	HPG7 (D)	HPG7
654	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP065970.zip	MK000480GWTTH	HPG7 (D)	HPG7
655	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP065970.zip	VK000240GWTSV	HPG7 (D)	HPG7
656	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP065949.zip	VK001920GZXQV	HPG1 (C)	HPG1
657	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP065949.zip	VK003840GZXRH	HPG1 (C)	HPG1
658	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP065949.zip	VK007680GZXRT	HPG1 (C)	HPG1
659	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP065949.zip	VK000960GZXQU	HPG1 (C)	HPG1
660	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP065949.zip	VK000480GZXRF	HPG1 (C)	HPG1
661	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP065949.zip	VK000240GZXRU	HPG1 (C)	HPG1
662	Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	CP065982.zip	VK000480GZCNE	HPG3 (C)	HPG3
663	Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and	CP065982.zip	VK000960GZCNF	HPG3 (C)	HPG3

	VK003840GZCNK Drives				
664	Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	CP065982.zip	VK001920GZCNH	HPG3 (C)	HPG3
665	Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	CP065982.zip	VK003840GZCNK	HPG3 (C)	HPG3
666	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	cp065066.exe	MB004000GWFWB	HPG1 (J)	HPG1
667	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	cp065066.exe	MB002000GWFWA	HPG1 (J)	HPG1
668	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	cp065066.exe	MB001000GWJAN	HPG1 (J)	HPG1
669	Online HDD/SSD Flash Component for Windows (x64) - MB004000GWKGV Drive	cp065089.exe	MB004000GWKGV	HPG1 (J)	HPG1
670	Online HDD/SSD Flash Component for Windows (x64) - MB006000GWKGR Drive	cp065090.exe	MB006000GWKGR	HPG1 (J)	HPG1
671	Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	cp067770.exe	MB010000GYDKP	HPG3	HPG3
672	Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	cp067770.exe	MB016000GYDKQ	HPG3	HPG3
673	Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	cp067770.exe	MB018000GYDKR	HPG3	HPG3
674	Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	cp067770.exe	MB012000GYCJL	HPG3	HPG3
675	Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	cp067770.exe	MB014000GYCJT	HPG3	HPG3
676	Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	cp065022.exe	MB012000GZYVT	HPG4 (C)	HPG4
677	Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	cp065022.exe	MB014000GZYVU	HPG4 (C)	HPG4
678	Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	cp065022.exe	MB016000GZYVV	HPG4 (C)	HPG4
679	Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT,	cp065022.exe	MB018000GYCLL	HPG4 (C)	HPG4

	MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives				
680	Online HDD/SSD Flash Component for Windows (x64) - MB016000GWXKK Drive	cp065030.exe	MB016000GWXKK	HPG4 (C)	HPG4
681	Online HDD/SSD Flash Component for Windows (x64) - MB018000GXMTK and MB020000GXMTQ Drives	cp065088.exe	MB020000GXMTQ	HPG3 (B)	HPG3
682	Online HDD/SSD Flash Component for Windows (x64) - MB018000GXMTK and MB020000GXMTQ Drives	cp065088.exe	MB018000GXMTK	HPG3 (B)	HPG3
683	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp065061.exe	MK003840GWXFL	HPG3 (C)	HPG3
684	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp065061.exe	MK001920GWXFK	HPG3 (C)	HPG3
685	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp065061.exe	MK000960GWXFH	HPG3 (C)	HPG3
686	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp065061.exe	MK000480GWXFF	HPG3 (C)	HPG3
687	Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives	cp065074.exe	MK000480GZXRA	HPG1 (C)	HPG1
688	Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives	cp065074.exe	MK001920GZXRC	HPG1 (C)	HPG1
689	Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives	cp065074.exe	MK000960GZXRB	HPG1 (C)	HPG1
690	Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXRB, MK001920GZXRC and MK003840GZXRV Drives	cp065074.exe	MK003840GZXRV	HPG1 (C)	HPG1
691	Online HDD/SSD Flash Component for Windows (x64) - MM1000GFJTE Drive	cp065060.exe	MM1000GFJTE	HPG6 (D)	HPG6
692	Online HDD/SSD Flash Component for Windows (x64) - MM2000GEFRA Drive	cp065057.exe	MM2000GEFRA	HPG9 (D)	HPG9
693	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp065014.exe	VK003840GWTTD	HPG7 (D)	HPG7
694	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp065014.exe	MK003840GWTTN	HPG7 (D)	HPG7
695	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK,	cp065014.exe	VK001920GWTTC	HPG7 (D)	HPG7

	MK001920GWTTL and MK003840GWTTN Drives				
696	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp065014.exe	MK001920GWTTL	HPG7 (D)	HPG7
697	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp065014.exe	VK000960GWTTB	HPG7 (D)	HPG7
698	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp065014.exe	MK000960GWTTK	HPG7 (D)	HPG7
699	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp065014.exe	VK000480GWTTA	HPG7 (D)	HPG7
700	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp065014.exe	MK000480GWTTH	HPG7 (D)	HPG7
701	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp065014.exe	VK000240GWTSV	HPG7 (D)	HPG7
702	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp065075.exe	VK001920GZXQV	HPG1 (C)	HPG1
703	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp065075.exe	VK003840GZXRH	HPG1 (C)	HPG1
704	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp065075.exe	VK007680GZXRT	HPG1 (C)	HPG1
705	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp065075.exe	VK000960GZXQU	HPG1 (C)	HPG1
706	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU,	cp065075.exe	VK000480GZXRF	HPG1 (C)	HPG1

	VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives				
707	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp065075.exe	VK000240GZXRU	HPG1 (C)	HPG1
708	Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	cp065062.exe	VK000480GZCNE	HPG3 (C)	HPG3
709	Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	cp065062.exe	VK000960GZCNF	HPG3 (C)	HPG3
710	Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	cp065062.exe	VK001920GZCNH	HPG3 (C)	HPG3
711	Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	cp065062.exe	VK003840GZCNK	HPG3 (C)	HPG3
712	Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD	Seagate_CimarronBP_SCIMARBPNTG4.fwpkg	MB002000GYDNK	HPG4	HPG4
713	Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD	Seagate_CimarronBP_SCIMARBPNTG4.fwpkg	MB004000GYDPD	HPG4	HPG4
714	Universal Firmware Package for Drives - MB004000GWZVT	Toshiba_MG08Air_TAMG08ADAnG3.fwpkg	MB004000GWZVT	HPG3	HPG3
715	Universal Firmware Package for Drives - MB006000GWZVL and MB008000GWZVN	Toshiba_MG08Air_TAMG08ADAeG3.fwpkg	MB006000GWZVL	HPG3	HPG3
716	Universal Firmware Package for Drives - MB006000GWZVL and MB008000GWZVN	Toshiba_MG08Air_TAMG08ADAeG3.fwpkg	MB008000GWZVN	HPG3	HPG3
717	Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN	Seagate_CimarronBP_SCIMARBPETG4.fwpkg	MB006000GYDNL	HPG4	HPG4
718	Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN	Seagate_CimarronBP_SCIMARBPETG4.fwpkg	MB008000GYDPE	HPG4	HPG4
719	Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN	Seagate_CimarronBP_SCIMARBPETG4.fwpkg	MB010000GYDNN	HPG4	HPG4
720	Universal Firmware Package for Drives - MB12000GYESP, MB16000GYEVF and MB20000GYEVH	Seagate_Summit_SUMMITSUANG1.fwpkg	MB12000GYESP	HPG1	HPG1
721	Universal Firmware Package for Drives - MB12000GYESP, MB16000GYEVF and MB20000GYEVH	Seagate_Summit_SUMMITSUANG1.fwpkg	MB16000GYEVF	HPG1	HPG1
722	Universal Firmware Package for Drives - MB12000GYESP, MB16000GYEVF and MB20000GYEVH	Seagate_Summit_SUMMITSUANG1.fwpkg	MB20000GYEVH	HPG1	HPG1
723	Universal Firmware Package for Drives - MB24000GYEVK	Seagate_Summit_SUMMITSUASG1.fwpkg	MB24000GYEVK	HPG1	HPG1
724	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

725	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	MK000960GXNZK	HPG1	HPG1
726	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
727	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
728	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
729	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
730	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
731	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
732	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
733	Universal Firmware Package for Drives - MK000480GXNXB, MK000960GXNZK,	Micron_5400_M5400 ALLHPG1.fwpkg	MK000960SXNXC	HPG1	HPG1

	MK001920GXNZL, MK003840GXNZN, VK000240GXNWU, VK000480GXNZA, VK000960GXNZB, VK001920GXNZC, VK003840GXNZD, VK007680GXNZE, VK000480SXNWV, VK001920SXNZF, MK000960SXNXC and MK001920SXNZP				
734	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
735	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
736	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
737	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
738	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
739	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
740	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
741	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840	Solidigm_S4X20_4IYY HPG4.fwpkg	MK000960GYCNP	HPG4	HPG4

	GYCNN ,VK007680GYCNE ,VR000240GX PQT and VR000480GXPQU				
742	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	MK001920GYCNF	HPG4	HPG4
743	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
744	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
745	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
746	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
747	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
748	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
749	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
750	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
751	Universal Firmware Package for Drives -	Solidigm_S4X20_4IYY	VR000480GXPQU	HPG4	HPG4

	MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	HPG4.fwpkg			

6.2.16 Firmware - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
752	Firmware Package - HPE Gen12 Boot Controller NS204i-u, HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d	HPE_NS204i_Gen10p_Gen11_1.2.14.1022_A.fwpkg	HPE NS204i-u Boot Controller	1.2.14.1022	1.2.14.1022
753	Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller	HPE_MR216i-o_Gen11_52.32.3-6333_A.fwpkg	HPE_MR216i-o_Gen11	52.32.3-6333	52.32.3-6333
754	Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller	HPE_MR216i-p_Gen11_52.32.3-6333_A.fwpkg	HPE_MR216i-p_Gen11	52.32.3-6333	52.32.3-6333
755	Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller	HPE_MR408i-o_Gen11_52.32.3-6333_A.fwpkg	HPE_MR408i-o_Gen11	52.32.3-6333	52.32.3-6333
756	Firmware Package - HPE MR408i-p Gen11 Tri Mode Controller	HPE_MR408i-p_Gen11_52.32.3-6333_A.fwpkg	HPE_MR408i-p_Gen11	52.32.3-6333	52.32.3-6333
757	Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller	HPE_MR416i-o_Gen11_52.32.3-6333_A.fwpkg	HPE_MR416i-o_Gen11	52.32.3-6333	52.32.3-6333
758	Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller	HPE_MR416i-p_Gen11_52.32.3-6333_A.fwpkg	HPE_MR416i-p_Gen11	52.32.3-6333	52.32.3-6333
759	Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers	HPE_SR416_SR932_Gen10P_Gen11_03.01.41.032_A.fwpkg	HPE SR932i-p Gen11	03.01.41.032	03.01.41.032
760	Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P204i-c, P416ie-m and P816i-a SR Gen10 and SR308i-o,SR308i-p Gen11 controllers	HPE_SR_Gen10_7.81_A.fwpkg	HPE Smart Array E208e-p SR Gen10 Controller	7.81	7.81

6.2.17 Firmware - Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version

6.2.18 Firmware - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
761	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	P14.4.473.30_header.pldm.fwpkg	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	14.4.473.30	14.4.473.30
762	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	P14.4.473.30_header.pldm.fwpkg	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.4.473.30	14.4.473.30
763	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	P14.4.473.30_header.pldm.fwpkg	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.4.473.30	14.4.473.30

764	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	P14.4.473.30_header.pldm.fwpkg	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.4.473.30	14.4.473.30
765	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
766	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

6.2.19 Firmware – System

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
767	Firmware Package - UBM10 Backplane PIC PLDM Firmware	HPE_UBM10_1.04_A.fwpkg	UBM10 Backplane PIC	1.04	1.04
768	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
769	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
770	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
771	Firmware Package - UBM5 Backplane PIC PLDM Firmware for Gen11 servers usage	HPE_UBM5_1.16_A.fwpkg	UBM5 Backplane PIC	1.16	1.16
772	Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11/Gen12 servers usage	HPE_UBM6_1.04_C.fwpkg	UBM6 Backplane PIC	1.04 (C)	1.04
773	Firmware Package - UBM7 Backplane PIC PLDM Firmware	HPE_UBM7_1.10_B.fwpkg	UBM7 Backplane PIC	1.10 (B)	1.10

6.2.20 Software - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
774	HPE Lights-Out Online Configuration Utility for Windows x64 Editions	cp063854.exe	-	6.0.0.0 (A)	6.0.0.0

6.2.21 Software - Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
775	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp065587.zip	HPE Smart Array E208e-p SR Gen10 Controller	2025.09.01	6.50.11.0-8.0.0
776	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp065587.zip	HPE SR932i-p Gen11	2025.09.01	6.50.11.0-8.0.0
777	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 9.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp066605.zip	HPE Smart Array E208e-p SR Gen10 Controller	2025.09.01	6.50.11.0-1OEM.900.0
778	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 9.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp066605.zip	HPE SR932i-p Gen11	2025.09.01	6.50.11.0-1OEM.900.0

6.2.22 Software - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
779	HPE MegaRAID Storage Administrator	cp067756.zip	HPE_MR416i-	2025.08.01	007.3212.000

	StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)		o_Gen11		0.0000-02
780	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR416i-p_Gen11	2025.08.01	007.3212.0000.0000-02
781	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR216i-o_Gen11	2025.08.01	007.3212.0000.0000-02
782	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR408i-o_Gen11	2025.08.01	007.3212.0000.0000-02
783	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR216i-p_Gen11	2025.08.01	007.3212.0000.0000-02
784	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp067756.zip	HPE_MR408i-p_Gen11	2025.08.01	007.3212.0000.0000-02
785	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR416i-o_Gen11	2025.08.01	007.3212.0000.0000-02
786	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR416i-p_Gen11	2025.08.01	007.3212.0000.0000-02
787	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR216i-o_Gen11	2025.08.01	007.3212.0000.0000-02
788	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR408i-o_Gen11	2025.08.01	007.3212.0000.0000-02
789	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR216i-p_Gen11	2025.08.01	007.3212.0000.0000-02
790	HPE MegaRAID Storage Administrator StorCLI for VMware9.0 (For Gen10P and Gen11 Controllers)	cp067757.zip	HPE_MR408i-p_Gen11	2025.08.01	007.3212.0000.0000-02

6.2.23 Software - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
791	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp062112.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2024.09.01	5.4.82.1-1OEM.800.1.0.20613240
792	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp062112.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2024.09.01	5.4.82.1-1OEM.800.1.0.20613240
793	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp066346.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2025.05.01	5.4.85.0-1OEM.803.0.0.24022510
794	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp066346.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2025.05.01	5.4.85.0-1OEM.803.0.0.24022510
795	HPE QLogic Fibre Channel driver component for VMware vSphere 9.0	cp066347.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2025.05.01	5.5.85.0-1OEM.900.0.24580437
796	HPE QLogic Fibre Channel driver component for VMware vSphere 9.0	cp066347.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2025.05.01	5.5.85.0-1OEM.900.0.24580437

6.2.24 Software - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version
797	Agentless Management Service (iLO 5, iLO 6 and iLO 7) for Red Hat Enterprise	amsd-4.3.0-2073.5.rhel9.x86_64.r	-	4.3.0	4.3.0-2073.5.rhel9

	Linux 9 Server	pm			
798	Agentless Management Service for Microsoft Windows x64	cp068099.exe	-	4.40.0.0	4.40.0.0
799	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR416i-o_Gen11	7.3212.0.0	7.3212.0.0
800	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR416i-p_Gen11	7.3212.0.0	7.3212.0.0
801	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR216i-o_Gen11	7.3212.0.0	7.3212.0.0
802	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR408i-o_Gen11	7.3212.0.0	7.3212.0.0
803	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR216i-p_Gen11	7.3212.0.0	7.3212.0.0
804	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp067755.exe	HPE_MR408i-p_Gen11	7.3212.0.0	7.3212.0.0
805	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR416i-o_Gen11	8.12.52.0	008.012.052.000-00
806	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR416i-p_Gen11	8.12.52.0	008.012.052.000-00
807	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR216i-o_Gen11	8.12.52.0	008.012.052.000-00
808	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR408i-o_Gen11	8.12.52.0	008.012.052.000-00
809	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR216i-p_Gen11	8.12.52.0	008.012.052.000-00
810	HPE MegaRAID Storage Administrator for RHEL8, RHEL9 and SLES15 (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.012.052.000-00.x86_64.rpm	HPE_MR408i-p_Gen11	8.12.52.0	008.012.052.000-00
811	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR416i-o_Gen11	8.12.52.0	8.12.52.0
812	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR416i-p_Gen11	8.12.52.0	8.12.52.0
813	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR216i-o_Gen11	8.12.52.0	8.12.52.0
814	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR408i-o_Gen11	8.12.52.0	8.12.52.0
815	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR216i-p_Gen11	8.12.52.0	8.12.52.0
816	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10 Plus and Gen11 Controllers)	cp066589.exe	HPE_MR408i-p_Gen11	8.12.52.0	8.12.52.0
817	Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp065586.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.50.11.0	6.50.11.0

818	Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp065586.exe	HPE SR932i-p Gen11	6.50.11.0	6.50.11.0
819	Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp065585.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.50.11.0	6.50.11.0
820	Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp065585.exe	HPE SR932i-p Gen11	6.50.11.0	6.50.11.0
821	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp065588.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.50.11.0	6.50.11.0
822	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp065588.exe	HPE SR932i-p Gen11	6.50.11.0	6.50.11.0

6.3 パッケージの変更内容

Online ROM Flash Component for Windows x64 - System ROM U54

Version: 2.60_08-07-2025

Important Notes:

- This version of the System ROM contains updates aligned with the Intel EagleStream IPU2025.3 update.
- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.204.0.

Problems Fixed:

- Addressed an issue where the system RBSU setting change might not take effect when the System ROM is being updated.
- Addressed an issue where the NVMe-oF target UUID might disappear after changing the NVMe-oF Initiator name in RBSU.
- Addressed an issue where the system might be halted at RBSU menu during page switching when working in Japanese language mode.
- Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.
- Addressed an issue where the messages of "Intelligent Provisioning" is incorrect.
- Addressed an issue where the Intel PCH model name might be unknown in system configuration (RBSU) -> System information.

Enhancements:

- Added new "UMONITOR" option in "System Configuration -> RBSU -> Processor Options". This setting has the following Redfish property:
  - /redfish/v1/systems/1/bios/settings/Umonitor
- Added new "CPU C1 Auto Demotion" and "CPU C1 Auto Undemotion" options in "System Configuration -> RBSU -> Power and Performance options". This setting has the following Redfish properties:
  - /redfish/v1/systems/1/bios/settings/CStateAutoDemotion
  - /redfish/v1/systems/1/bios/settings/CStateAutoUnDemotion
- Added new ""Uncore Frequency RAPL"" option in "System Configuration -> RBSU -> Power and Performance options". This setting has the following Redfish property:
  - /redfish/v1/systems/1/bios/settings/UncoreFreqRAPL
- Added help text for "Smooth Cooling" in system configuration (RBSU) option.

Online ROM Flash Component for Windows x64 - System ROM U63

Version: 2.60_08-07-2025

Important Notes:

- This version of the System ROM contains updates aligned with the Intel EGS BKC UPLR3 release.

- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.075.0.
- This version of the System ROM contains updates aligned with the Intel uPLR2 OOB2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR1 OOB2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR1 guidance.
- This revision of the System ROM includes the mitigation for security vulnerabilities CVE-2023-5678, CVE-2024-0727 and CVE-2023-45229. The security vulnerabilities are documented in the CVE report site. They are not unique to Hitachi servers.
- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0.

Firmware Dependencies:

- iLO6 v1.62 is NOT compatible with the Windows and Linux Online ROM Flash Components for versions of the System ROM prior to v2.30. The Online ROM Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Online ROM Flash Components.

Problems Fixed:

- Addressed an issue where the system might RSOD when performing firmware update via Firmware Management Protocol.
- Addressed an issue where the system might RSOD when both TXT and TDX are enabled.
- Addressed an issue where the system might fail to update NVMe drive firmware.
- Addressed an issue where the system might not be able to detect disk removal via NVMe-oF during VMware installation.
- Addressed an issue where the system would use UUID for IPV6 DHCP when DUID-LLT is selected.
- Addressed an issue where the system would report Unsupported DIMM Configuration when having 16+0 DIMM mixed rank population.
- Addressed an issue where the system Consistent Device Naming (CDN) is not working in Windows Server.
- Addressed an issue where the system memory address translation did not match with system limitation.
- Addressed an issue where the system iLO remote console might hang when the System Utilities Language is set to Japanese.
- Addressed an issue where the system might bring up a warning message ("ERST: [Firmware Warn]: too many record IDs!") in the Linux environment during boot up.
- Addressed an issue where the system Max/Min Uncore Frequency value did not be set to default value after loading default settings.
- Addressed an issue where the system might detect memory uncorrectable error while system has been idle for extended period of time.
- Addressed an issue where the system might hang at memory initialization after restoring system setting to factory default.

- Addressed an issue where system RBSU menu might list duplicate or incorrect network interfaces in the selection page.
- Addressed an issue where some strings of in the System Configuration->RBSU->Network Options->NVMe-oF Configuration->NVMe-oF Attempt are still in English after switching the language to non-English version.
- Addressed an issue where the system RBSU menu might not display clear drive location information.
- Addressed an issue where fans might rapidly ramp up and then back down.
- Addressed an issue where the "Server Boot Order" in iLO web was not aligned with "UEFI Boot Order Control" in RBSU.
- Addressed an issue where the system might be asserted when plugging in MR416i-p.
- Addressed an issue where an error message in Linux would indicate TCG log size is not compatible.
- Addressed an issue where incorrect drive location information would be shown.
- Addressed an issue where RSOD might occur after enable PCH VMD with 2x M.2 NVMe drives.
- Addressed an issue where the firmware version and status in device inventory show incorrectly after setting bifurcation for option cards.
- Addressed an issue where the product name information in Device Inventory of iLO web may show unknown or blank for M.2 drives.
- Addressed an issue where ilorest BIOS attributes PersistentMemScanMem, PersistentMemAddressRangeScrub and PersistentMemNumaAffinity may present randomly.
- Fixed an issue where the iLO firmware version may show incorrectly.
- Fixed an issue where system may not have an evenly distributed NUMA node assignments among PCI slots for virtual NUMA mode.
- Addressed an issue where System Information Device Inventory in iLO web may show unknown entries after enabling bifurcation.
- Addressed an issue where System Information Device Inventory in iLO web may miss devices after enabling bifurcation.
- Addressed an issue where One button secure erase (OBSE) report may show incorrect Drive Port Number and Box Number for MicroChip SR controller.
- Addressed an issue where system may become stuck after enrolling many certificates and signatures.
- Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.
- Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.
- Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.
- Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.
- Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.
- Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.
- Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.
- Addressed a secure boot database synchronizing issue via Redfish API.

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

Enhancements:

- Added pop-up message for all Intelligent Provisioning boot paths to warn users of the risk of data loss.
- Enhanced Chinese and Japanese strings translation support in RBSU pages.
- Added new Microsoft Option ROM UEFI CA 2023 secure boot key.
- Updated the boot device string rules to include the case when VMD is enabled.
- Added the "Smooth Cooling" selection to the Thermal Configuration option in the RBSU->Advanced Options->Fan and Thermal Options. This selection modifies the fan speed response to improve acoustics by reducing the rate of fan speed changes. This can improve acoustics for workloads which significantly vary CPU utilization. Note that this option can result in a small reduction in performance due to the short durations of CPU thermal throttling and some operating systems, such as Linux, may log CPU

thermal throttling events. These events do not indicate an issue with the system and can be ignored.

- Added new IML messages to indicate the status of NVMe secure erase and AMT.
- Added the System Configuration (RBSU) option "Power and Performance Options/ Advanced Performance Options/HardwarePM Interrupt" and set to ""Disabled"" by default. This setting has the following Redfish property:/redfish/v1/systems/1/bios/settings/HwpmInterrup
- Added Zilia DIMM manufacturer ID for SMBIOS information.
- Updated some Japanese translation.
- Added production HCI marker key for OEM activation for Windows Azure.
- Added value "C6 without C1E" in System Configuration (RBSU) option "Power Management/Advanced Power Options menu/Minimum Processor Idle Power Core C-State". When selected, the Minimum Processor Idle Power Core C-State is C6 with C1E disabled. This setting has the following Redfish property: /redfish/v1/systems/1/bios/MinProcIdlePower
- Added the System Configuration (RBSU) option "Power and Performance Options/Advanced Performance Tuning Options/Intel(R) AVX License Pre-Grant Override". When enabled, the pre-grant license level will be set based on the value of AVX ICCP Pre-Grant Level option. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings/AvxLicensePreGrantOverride
- Added the System Configuration (RBSU) option "Power and Performance Options/Advanced Performance Tuning Options/Intel(R) AVX ICCP Pre-Grant Level" to pre-grants an AVX level to the core. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings/AvxIccpPreGrantLevel
- Added the System Configuration (RBSU) option "PCIe Device Configuration/Advanced PCIe Configuration/ PCI-E ASPM Support (Global)" to control ASPM support in all PCIe root port. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings//redfish/v1/systems/1/bios/settings/PcieGlobalAspm

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Online ROM Flash Component for Windows x64 - System ROM U65

Version: 2.30_08-07-2025

Important Notes:

- This version of the System ROM contains updates aligned with the Intel Catlow Refresh MR2 BKC.
- This version of the System ROM contains updates aligned with the Intel Catlow Refresh MR1 BKC.

Problems Fixed:

- Addressed an issue where Redfish BIOS settings might not be applied when upgrading the BIOS and changing BIOS settings simultaneously.
- Addressed an issue where the NVMe-oF target UUID could disappear after modifying the NVMe-oF Initiator name in RBSU.
- Addressed an issue where an incorrect Structured Boot Name appeared in the OS boot options.
- Addressed an issue where the system could hang while navigating RBSU pages in multi-language mode.

- Addressed an issue where the Name field of the Logical Drive under MR controller page might be missing or changed unintentionally after exiting and going back to the MR controller page.
- Addressed an issue where the messages of "Intelligent Provisioning" is incorrect.

Enhancements:

- Enhanced ROM error logging when the DIMM serial number is identified as "00000000".
- Updated multi-language translation.
- Added the help text for "Smooth Cooling" RBSU option.

ROM Flash Firmware Package - System ROM U54

Version: 2.48_03-11-2025 (Recommended)

Important Notes:

- This version of the System ROM contains updates aligned with the Intel EGS BKC UPLR3 release.
- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.075.0.
- This version of the System ROM contains updates aligned with the Intel uPLR2 OOB2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR1 OOB2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR1 guidance.
- This revision of the System ROM includes the mitigation for security vulnerabilities CVE-2023-5678, CVE-2024-0727 and CVE-2023-45229. The security vulnerabilities are documented in the CVE report site. They are not unique to Hitachi servers.
- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0.

Firmware Dependencies:

- iLO6 v1.62 is NOT compatible with the Windows and Linux Online ROM Flash Components for versions of the System ROM prior to v2.30. The Online ROM Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Online ROM Flash Components.

Problems Fixed:

- Addressed an issue where the system might RSOD when performing firmware update via Firmware Management Protocol.
- Addressed an issue where the system might RSOD when both TXT and TDX are enabled.
- Addressed an issue where the system might fail to update NVMe drive firmware.
- Addressed an issue where the system might not be able to detect disk removal via NVMe-oF during VMware installation.
- Addressed an issue where the system would use UUID for IPV6 DHCP when DUID-LLT is selected.
- Addressed an issue where the system would report Unsupported DIMM Configuration when having 16+0

DIMM mixed rank population.

- Addressed an issue where the system Consistent Device Naming (CDN) is not working in Windows Server.
- Addressed an issue where the system memory address translation did not match with system limitation.
- Addressed an issue where the system iLO remote console might hang when the System Utilities Language is set to Japanese.
- Addressed an issue where the system might bring up a warning message ("ERST: [Firmware Warn]: too many record IDs!") in the Linux environment during boot up.
- Addressed an issue where the system Max/Min Uncore Frequency value did not be set to default value after loading default settings.
- Addressed an issue where the system might detect memory uncorrectable error while system has been idle for extended period of time.
- Addressed an issue where the system might hang at memory initialization after restoring system setting to factory default.
- Addressed an issue where system RBSU menu might list duplicate or incorrect network interfaces in the selection page.
- Addressed an issue where some strings of in the System Configuration->RBSU->Network Options->NVMe-oF Configuration->NVMe-oF Attempt are still in English after switching the language to non-English version.
- Addressed an issue where the system RBSU menu might not display clear drive location information.
- Addressed an issue where fans might rapidly ramp up and then back down.
- Addressed an issue where the "Server Boot Order" in iLO web was not aligned with "UEFI Boot Order Control" in RBSU.
- Addressed an issue where the system might be asserted when plugging in MR416i-p.
- Addressed an issue where an error message in Linux would indicate TCG log size is not compatible.
- Addressed an issue where incorrect drive location information would be shown.
- Addressed an issue where RSOD might occur after enable PCH VMD with 2x M.2 NVMe drives.
- Addressed an issue where the firmware version and status in device inventory show incorrectly after setting bifurcation for option cards.
- Addressed an issue where the product name information in Device Inventory of iLO web may show unknown or blank for M.2 drives.
- Addressed an issue where ilorest BIOS attributes PersistentMemScanMem, PersistentMemAddressRangeScrub and PersistentMemNumaAffinity may present randomly.
- Fixed an issue where the iLO firmware version may show incorrectly.
- Fixed an issue where system may not have an evenly distributed NUMA node assignments among PCI slots for virtual NUMA mode.
- Addressed an issue where System Information Device Inventory in iLO web may show unknown entries after enabling bifurcation.
- Addressed an issue where System Information Device Inventory in iLO web may miss devices after enabling bifurcation.
- Addressed an issue where One button secure erase (OBSE) report may show incorrect Drive Port

Number and Box Number for MicroChip SR controller.

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

IpAddressType is set to auto.

- Addressed an issue where the boot order of NVMe drives cannot be changed.
- Addressed an issue where system may encounter a RSOD while updating SAS drive FW.

Enhancements:

- Added pop-up message for all Intelligent Provisioning boot paths to warn users of the risk of data loss.
- Enhanced Chinese and Japanese strings translation support in RBSU pages.
- Added new Microsoft Option ROM UEFI CA 2023 secure boot key.
- Updated the boot device string rules to include the case when VMD is enabled.
- Added the "Smooth Cooling" selection to the Thermal Configuration option in the RBSU->Advanced Options->Fan and Thermal Options. This selection modifies the fan speed response to improve acoustics by reducing the rate of fan speed changes. This can improve acoustics for workloads which significantly vary CPU utilization. Note that this option can result in a small reduction in performance due to the short durations of CPU thermal throttling and some operating systems, such as Linux, may log CPU thermal throttling events. These events do not indicate an issue with the system and can be ignored.
- Added new IML messages to indicate the status of NVMe secure erase and AMT.
- Added the System Configuration (RBSU) option "Power and Performance Options/ Advanced Performance Options/HardwarePM Interrupt" and set to ""Disabled"" by default. This setting has the following Redfish property:/redfish/v1/systems/1/bios/settings/HwpmInterrup
- Added Zilia DIMM manufacturer ID for SMBIOS information.
- Updated some Japanese translation.
- Added production HCI marker key for OEM activation for Windows Azure.
- Added value "C6 without C1E" in System Configuration (RBSU) option "Power Management/Advanced Power Options menu/Minimum Processor Idle Power Core C-State". When selected, the Minimum Processor Idle Power Core C-State is C6 with C1E disabled. This setting has the following Redfish property: /redfish/v1/systems/1/bios/MinProcIdlePower
- Added the System Configuration (RBSU) option "Power and Performance Options/Advanced Performance Tuning Options/Intel(R) AVX License Pre-Grant Override". When enabled, the pre-grant license level will be set based on the value of AVX ICCP Pre-Grant Level option. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings/AvxLicensePreGrantOverride
- Added the System Configuration (RBSU) option "Power and Performance Options/Advanced Performance Tuning Options/Intel(R) AVX ICCP Pre-Grant Level" to pre-grants an AVX level to the core. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings/AvxIccpPreGrantLevel
- Added the System Configuration (RBSU) option "PCIe Device Configuration/Advanced PCIe Configuration/ PCI-E ASPM Support (Global)" to control ASPM support in all PCIe root port. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings//redfish/v1/systems/1/bios/settings/PcieGlobalAspm

ROM Flash Firmware Package - System ROM U63

Version: 2.48_03-11-2025 (Recommended)

Important Notes:

- This version of the System ROM contains updates aligned with the Intel EGS BKC UPLR3 release.
- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.075.0.
- This version of the System ROM contains updates aligned with the Intel uPLR2 OOB2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR1 OOB2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR1 guidance.
- This revision of the System ROM includes the mitigation for security vulnerabilities CVE-2023-5678, CVE-2024-0727 and CVE-2023-45229. The security vulnerabilities are documented in the CVE report site. They are not unique to Hitachi servers.
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Firmware Dependencies:

- iLO6 v1.62 is NOT compatible with the Windows and Linux Online ROM Flash Components for versions of the System ROM prior to v2.30. The Online ROM Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Online ROM Flash Components.

Problems Fixed:

- Addressed an issue where the system might RSOD when performing firmware update via Firmware Management Protocol.
- Addressed an issue where the system might RSOD when both TXT and TDX are enabled.
- Addressed an issue where the system might fail to update NVMe drive firmware.
- Addressed an issue where the system might not be able to detect disk removal via NVMe-oF during VMware installation.
- Addressed an issue where the system would use UUID for IPV6 DHCP when DUID-LLT is selected.
- Addressed an issue where the system would report Unsupported DIMM Configuration when having 16+0 DIMM mixed rank population.
- Addressed an issue where the system Consistent Device Naming (CDN) is not working in Windows Server.
- Addressed an issue where the system memory address translation did not match with system limitation.
- Addressed an issue where the system iLO remote console might hang when the System Utilities Language is set to Japanese.
- Addressed an issue where the system might bring up a warning message ("ERST: [Firmware Warn]: too many record IDs!") in the Linux environment during boot up.
- Addressed an issue where the system Max/Min Uncore Frequency value did not be set to default value

after loading default settings.

- Addressed an issue where the system might detect memory uncorrectable error while system has been idle for extended period of time.
- Addressed an issue where the system might hang at memory initialization after restoring system setting to factory default.
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- Addressed an issue where the system might be asserted when plugging in MR416i-p.
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- Addressed an issue where RSOD might occur after enable PCH VMD with 2x M.2 NVMe drives.
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- Addressed an issue where the boot order was cleared unexpectedly after configuring System Configuration (RBSU) options, navigating to Boot Options > UEFI Boot Settings > UEFI Boot Order and then pressing F12 to Save and Exit.
- Removed value "Not Specified" in System Configuration (RBSU) option "Server Security/Trusted Platform Module Optioins/Current TPM 2.0 Active PCRs" and set the default value as "SHA1 and SHA256".
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- Addressed an issue where the boot order of NVMe drives cannot be changed.
- Addressed an issue where system may encounter a RSOD while updating SAS drive FW.

Enhancements:

- Added pop-up message for all Intelligent Provisioning boot paths to warn users of the risk of data loss.
- Enhanced Chinese and Japanese strings translation support in RBSU pages.
- Added new Microsoft Option ROM UEFI CA 2023 secure boot key.
- Updated the boot device string rules to include the case when VMD is enabled.

- Added the "Smooth Cooling" selection to the Thermal Configuration option in the RBSU->Advanced Options->Fan and Thermal Options. This selection modifies the fan speed response to improve acoustics by reducing the rate of fan speed changes. This can improve acoustics for workloads which significantly vary CPU utilization. Note that this option can result in a small reduction in performance due to the short durations of CPU thermal throttling and some operating systems, such as Linux, may log CPU thermal throttling events. These events do not indicate an issue with the system and can be ignored.
- Added new IML messages to indicate the status of NVMe secure erase and AMT.
- Added the System Configuration (RBSU) option "Power and Performance Options/ Advanced Performance Options/HardwarePM Interrupt" and set to ""Disabled"" by default. This setting has the following Redfish property:/redfish/v1/systems/1/bios/settings/HwpmInterrup
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- Added the System Configuration (RBSU) option "PCIe Device Configuration/Advanced PCIe Configuration/ PCI-E ASPM Support (Global)" to control ASPM support in all PCIe root port. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings//redfish/v1/systems/1/bios/settings/PcieGlobalAspm

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Online ROM Flash Component for Windows x64 - System ROM U59

Version: 2.48_03-11-2025 (Recommended)

Important Notes:

- This version of the System ROM contains updates aligned with the Intel EGS BKC UPLR3 release.
- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.075.0.
- This version of the System ROM contains updates aligned with the Intel uPLR2 OOB2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR2 guidance.

- This version of the System ROM contains updates aligned with the Intel uPLR1 OOB2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR1 guidance.
- This revision of the System ROM includes the mitigation for security vulnerabilities CVE-2023-5678, CVE-2024-0727 and CVE-2023-45229. The security vulnerabilities are documented in the CVE report site. They are not unique to Hitachi servers.
- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0.

Firmware Dependencies:

- iLO6 v1.62 is NOT compatible with the Windows and Linux Online ROM Flash Components for versions of the System ROM prior to v2.30. The Online ROM Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Online ROM Flash Components.

Problems Fixed:

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- Addressed an issue where the system might RSOD when both TXT and TDX are enabled.
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Enhancements:

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- Added the "Smooth Cooling" selection to the Thermal Configuration option in the RBSU->Advanced Options->Fan and Thermal Options. This selection modifies the fan speed response to improve acoustics by reducing the rate of fan speed changes. This can improve acoustics for workloads which significantly vary CPU utilization. Note that this option can result in a small reduction in performance due to the short durations of CPU thermal throttling and some operating systems, such as Linux, may log CPU thermal throttling events. These events do not indicate an issue with the system and can be ignored.
- Added new IML messages to indicate the status of NVMe secure erase and AMT.
- Added the System Configuration (RBSU) option "Power and Performance Options/ Advanced Performance Options/HardwarePM Interrupt" and set to ""Disabled"" by default. This setting has the

following Redfish property:/redfish/v1/systems/1/bios/settings/HwpmInterrup

- Added Zilia DIMM manufacturer ID for SMBIOS information.
- Updated some Japanese translation.
- Added production HCI marker key for OEM activation for Windows Azure.
- Added value "C6 without C1E" in System Configuration (RBSU) option "Power Management/Advanced Power Options menu/Minimum Processor Idle Power Core C-State". When selected, the Minimum Processor Idle Power Core C-State is C6 with C1E disabled. This setting has the following Redfish property: /redfish/v1/systems/1/bios/MinProcIdlePower
- Added the System Configuration (RBSU) option "Power and Performance Options/Advanced Performance Tuning Options/Intel(R) AVX License Pre-Grant Override". When enabled, the pre-grant license level will be set based on the value of AVX ICCP Pre-Grant Level option. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings/AvxLicensePreGrantOverride
- Added the System Configuration (RBSU) option "Power and Performance Options/Advanced Performance Tuning Options/Intel(R) AVX ICCP Pre-Grant Level" to pre-grants an AVX level to the core. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings/AvxIccpPreGrantLevel
- Added the System Configuration (RBSU) option "PCIe Device Configuration/Advanced PCIe Configuration/ PCI-E ASPM Support (Global)" to control ASPM support in all PCIe root port. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings//redfish/v1/systems/1/bios/settings/PcieGlobalAspm

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ROM Flash Firmware Package - System ROM U59

Version: 2.48_03-11-2025 (Recommended)

Important Notes:

- This version of the System ROM contains updates aligned with the Intel EGS BKC UPLR3 release.
- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.075.0.
- This version of the System ROM contains updates aligned with the Intel uPLR2 OOB2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR1 OOB2 guidance.
- This version of the System ROM contains updates aligned with the Intel uPLR1 guidance.
- This revision of the System ROM includes the mitigation for security vulnerabilities CVE-2023-5678, CVE-2024-0727 and CVE-2023-45229. The security vulnerabilities are documented in the CVE report site. They are not unique to Hitachi servers.
- This version of the System ROM should be paired with Server Platform Services (SPS) Firmware 06.01.04.047.0.

Firmware Dependencies:

- iLO6 v1.62 is NOT compatible with the Windows and Linux Online ROM Flash Components for versions of

the System ROM prior to v2.30. The Online ROM Flash Components released with System ROM v2.30 will work with iLO6 v1.62. For any systems utilizing iLO6 v1.62 or later, flashing the System ROM to versions prior to v2.30 requires utilizing Fwpkg or ROM binary instead of using the Windows or Linux Online ROM Flash Components.

Problems Fixed:

- Addressed an issue where the system might RSOD when performing firmware update via Firmware Management Protocol.
- Addressed an issue where the system might RSOD when both TXT and TDX are enabled.
- Addressed an issue where the system might fail to update NVMe drive firmware.
- Addressed an issue where the system might not be able to detect disk removal via NVMe-oF during VMware installation.
- Addressed an issue where the system would use UUID for IPV6 DHCP when DUID-LLT is selected.
- Addressed an issue where the system would report Unsupported DIMM Configuration when having 16+0 DIMM mixed rank population.
- Addressed an issue where the system Consistent Device Naming (CDN) is not working in Windows Server.
- Addressed an issue where the system memory address translation did not match with system limitation.
- Addressed an issue where the system iLO remote console might hang when the System Utilities Language is set to Japanese.
- Addressed an issue where the system might bring up a warning message ("ERST: [Firmware Warn]: too many record IDs!") in the Linux environment during boot up.
- Addressed an issue where the system Max/Min Uncore Frequency value did not be set to default value after loading default settings.
- Addressed an issue where the system might detect memory uncorrectable error while system has been idle for extended period of time.
- Addressed an issue where the system might hang at memory initialization after restoring system setting to factory default.
- Addressed an issue where system RBSU menu might list duplicate or incorrect network interfaces in the selection page.
- Addressed an issue where some strings of in the System Configuration->RBSU->Network Options->NVMe-oF Configuration->NVMe-oF Attempt are still in English after switching the language to non-English version.
- Addressed an issue where the system RBSU menu might not display clear drive location information.
- Addressed an issue where fans might rapidly ramp up and then back down.
- Addressed an issue where the "Server Boot Order" in iLO web was not aligned with "UEFI Boot Order Control" in RBSU.
- Addressed an issue where the system might be asserted when plugging in MR416i-p.
- Addressed an issue where an error message in Linux would indicate TCG log size is not compatible.
- Addressed an issue where incorrect drive location information would be shown.
- Addressed an issue where RSOD might occur after enable PCH VMD with 2x M.2 NVMe drives.

- Addressed an issue where the firmware version and status in device inventory show incorrectly after setting bifurcation for option cards.
- Addressed an issue where the product name information in Device Inventory of iLO web may show unknown or blank for M.2 drives.
- Addressed an issue where ilorest BIOS attributes PersistentMemScanMem, PersistentMemAddressRangeScrub and PersistentMemNumaAffinity may present randomly.
- Fixed an issue where the iLO firmware version may show incorrectly.
- Fixed an issue where system may not have an evenly distributed NUMA node assignments among PCI slots for virtual NUMA mode.
- Addressed an issue where System Information Device Inventory in iLO web may show unknown entries after enabling bifurcation.
- Addressed an issue where System Information Device Inventory in iLO web may miss devices after enabling bifurcation.
- Addressed an issue where One button secure erase (OBSE) report may show incorrect Drive Port Number and Box Number for MicroChip SR controller.
- Addressed an issue where system may become stuck after enrolling many certificates and signatures.
- Addressed an issue where duplicated and incorrect task status were logged iLO Event Log.
- Addressed an issue where multiple KEK instances appeared after the enrollment of KEK certificate from Redfish API.
- Addressed an issue where UEFI secure boot dbr signatures were not deleted after deleting all keys via Redfish API.
- Addressed an issue where Negotiated Link Width in RBSU showed incorrect information after configuring bifurcation.
- Addressed an issue where system may encounter RSOD after enrollment of an improper certificate.
- Addressed an issue where the Logical Drive name was cleared in RBSU after leaving the configuration page of MR controllers.
- Addressed an issue where Redfish BIOS actions, ResetBios and ChangePassword may not work.
- Addressed a secure boot database synchronizing issue via Redfish API.
- Addressed an issue that Battery Failure IML message log may be incorrectly logged for Smart Array Controller with Smart Storage Battery.
- Addressed an issue where NS204i may not be identified as an NVMe device.
- Addressed an issue when setting "Workload Profile" to 'Custom' and changing "Processor Monitor/Mwait Support" to 'Disabled'. "Processor Monitor/Mwait Support" knob is not seen in the BIOS->Service Options.
- Addressed an issue where the driver Health Message was shown twice in POST when drive was removed and ran cold boot.
- Addressed an issue where a NVMe drive would not be unmounted when it exceeds the DPC error threshold with ESXi 8.0U2 or newer versions.
- Addressed an issue where system would not be configured as 4 sub-NUMA nodes per socket (SNC4) when Virtual NUMA is enabled and SNC2 is enabled.
- Addressed an issue where updating NVMe-oF initiator name would not take effect.

- Addressed an issue where Redfish BIOS actions, ResetBIOS and ChangePassword were not working.
- Addressed an issue where system may hang while enrolling secure boot key dbr certificate via Redfish API.
- Addressed an issue where system failed to boot with selected NVMe HDD by setting One-Time Boot Option in ILO Web.
- Addressed an issue where the boot order was cleared unexpectedly after configuring System Configuration (RBSU) options, navigating to Boot Options > UEFI Boot Settings > UEFI Boot Order and then pressing F12 to Save and Exit.
- Removed value "Not Specified" in System Configuration (RBSU) option "Server Security/Trusted Platform Module Optioins/Current TPM 2.0 Active PCRs" and set the default value as "SHA1 and SHA256".
- Addressed an issue where Redfish resource was not updated after deleting secure boot keys via System Configuration (RBSU).
- Addressed an issue where the system failed to enroll certificate to PK and KEK via Redfish.
- Addressed an issue where the OS could not detect the iSCSI drive through IPv6 installation when iSCSI IpAddressType is set to auto.
- Addressed an issue where the boot order of NVMe drives cannot be changed.
- Addressed an issue where system may encounter a RSOD while updating SAS drive FW.

Enhancements:

- Added pop-up message for all Intelligent Provisioning boot paths to warn users of the risk of data loss.
- Enhanced Chinese and Japanese strings translation support in RBSU pages.
- Added new Microsoft Option ROM UEFI CA 2023 secure boot key.
- Updated the boot device string rules to include the case when VMD is enabled.
- Added the "Smooth Cooling" selection to the Thermal Configuration option in the RBSU->Advanced Options->Fan and Thermal Options. This selection modifies the fan speed response to improve acoustics by reducing the rate of fan speed changes. This can improve acoustics for workloads which significantly vary CPU utilization. Note that this option can result in a small reduction in performance due to the short durations of CPU thermal throttling and some operating systems, such as Linux, may log CPU thermal throttling events. These events do not indicate an issue with the system and can be ignored.
- Added new IML messages to indicate the status of NVMe secure erase and AMT.
- Added the System Configuration (RBSU) option "Power and Performance Options/ Advanced Performance Options/HardwarePM Interrupt" and set to ""Disabled"" by default. This setting has the following Redfish property:/redfish/v1/systems/1/bios/settings/HwpmInterrup
- Added Zilia DIMM manufacturer ID for SMBIOS information.
- Updated some Japanese translation.
- Added production HCI marker key for OEM activation for Windows Azure.
- Added value "C6 without C1E" in System Configuration (RBSU) option "Power Management/Advanced Power Options menu/Minimum Processor Idle Power Core C-State". When selected, the Minimum Processor Idle Power Core C-State is C6 with C1E disabled. This setting has the following Redfish property: /redfish/v1/systems/1/bios/MinProcIdlePower
- Added the System Configuration (RBSU) option "Power and Performance Options/Advanced

Performance Tuning Options/Intel(R) AVX License Pre-Grant Override". When enabled, the pre-grant license level will be set based on the value of AVX ICCP Pre-Grant Level option. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings/AvxLicensePreGrantOverride

- Added the System Configuration (RBSU) option "Power and Performance Options/Advanced Performance Tuning Options/Intel(R) AVX ICCP Pre-Grant Level" to pre-grants an AVX level to the core. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings/AvxIccpPreGrantLevel
- Added the System Configuration (RBSU) option "PCIe Device Configuration/Advanced PCIe Configuration/ PCI-E ASPM Support (Global)" to control ASPM support in all PCIe root port. This setting has the following Redfish property: /redfish/v1/systems/1/bios/settings//redfish/v1/systems/1/bios/settings/PcieGlobalAspm

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Online ROM Flash Component for Windows x64 - iLO 6

Version: 1.70

Problems Fixed:

- Fixed an IPv6 issue faced during the Rsyslog server configuration.
- Fixed a session timeout issue in FreeIPMI's ipmi-chassis-config checkout command by adjusting the response size to match the actual bytes that iLO returns.
- Fixed an issue where systems with 4 x NVIDIA A16 GPUs caused the iLO6 Redfish or the Processors endpoint to return an invalidIndex due to a processor entry limit.
- Fixed the delay in HDDs being listed in the firmware inventory following the ServerFirmwareInventoryComplete being set to True.
- Fixed an issue where HDDs connected through the SR controller were not consistently displayed in the iLO Firmware Inventory page or via the Redfish API.
- Fixed an issue of iLO Intelligent Platform Management Interface (IPMI) command (SDR type memory) not listing some of the memory sensor records.
- Fixed an issue where SFIC generation failed and the URIs in the redfish /v1/ResourceDirectory did not get populated.
- Fixed an issue where an LDAP/Directory user was unable create a local user.
- Fixed the repeated characters' issue when Japanese Keyboard Layout is used and Kanji key [English Keyboard ` eq key] was pressed.
- Fixed an issue where iLO6 Web GUI did not show the correct processor 2 status.
- Fixed an issue where SSH connections from later versions of PuTTY were not allowed.
- Fixed an issue that did not allow SNMP packet requests greater than 32 bytes.
- Fixed an issue where even after an iLO factory default reset and BIOS restoring default manufacturing settings,
- the DL560 Gen11 server fans were frequently ramping high for short bursts and creating a noise.
- Fixed an issue where DHE-RSA ciphers are enabled with Disable Weak Ciphers and in High Security mode

setting making iLO vulnerable.

- Fixed an issue where the get_email_details failed if the user domain name had a ¥ character.
- Fixed an issue where a PMCI transactional error due to MCTP over I2C communication timed out.
- Fixed an issue where a certificate import failed on some servers with the SSL certificate could not be imported since the input certificate is not intended for this server error.
- Fixed an issue where iLO6 System Information Storage tab displayed drives without any order.

Enhancements:

- Availability of the hardware version of power supply unit in the /redfish/v1/chassis/1/PowerSubsystem/PowerSupplies/{PowerSupplyId} URI.
- Support for the Flex slot PSUs.
- Support for ECDSA P384 key type in all the iLO security modes for the TLS connections.
- Implementation of Power Subsystem Schema as per Redfish DMTF standards.
- Support of Redfish API to end an ongoing bundle update where iLO repeatedly attempts to process a stale bundle update, which might lead to an unrecoverable state.
- Enabled iLO 6 support for fallback sensor enablement or dis-enablement of OCP/PCI card main temperature sensors.
- Enabled iLO 6 support for NVMe-MI firmware updates.
- Support for LDAP session persistence.
- Ability to retain Virtual Serial Port (VSP) logs upon host power cycle.
- Support for configuring remote syslog with Transport Layer Security (TLS) using the iLO GUI.
- Added an AC power-cycle as a button in the GUI.
- Added support to allow boot order modifications during server POST state.
- Added support to enable or disable fallback temperature sensors for OCP/PCI card.
- Support for SHA2 algorithm with public key authentication method of logging into iLO SSH and is applicable to all security modes.
- Support for Domain name server (RDNSS) configuration from Router Advertisements.
- Support for configuring rsyslog with Transport Layer Security (TLS) using the Redfish interface.
- Support for TcgEventLogs and HardwareDataBlob in the Redfish ComponentIntegrity.
- Support for Signed SystemTPM Measurements.
- Availability of PowerWatts and InputPowerWatts metrics in EnvironmentMetrics and PowerSupplyMetrics schemas.

Issues and workarounds:

- The vsp command does not work in this version. If you want to use a virtual serial console, please use the "start /system1/oemHITACHI_vsp1" command instead of the vsp command.

Online ROM Flash Firmware Package - iLO 6

Version: 1.67

Problems Fixed:

- Fixed an issue where there was no VSP output on DL360 Gen11 iLO6 due to stack overflow on VSP log

buffer handling.

- Fixed an issue where the fan speed was not set as per the thermal configuration due to server device discovery not reaching vMainDeviceDiscoveryComplete.
- Fixed an issue that did not allow to enable mTLS for subscription and returned error in loading client private key.
- Fixed an issue where param2 check-in challenge_auth response for NVIDIA adapter failed during SPDM authentication.
- Fixed an issue where the Kerberos client advertised insecure encryption (RC4, DES) types and rejected the deprecated ones. As a part of this fix, RC4, DES, and 3DES algorithms are removed from the Kerberos requests.
- Fixed an issue where the MCTP retry mechanism in i2c communication failed.
- Fixed an issue where a low value of the iLO reset progress bar time caused mismatch in the configuration during the iLO reset time.
- Fixed an issue where the IPMI fan's pwm values were set to a default of 255 to calculate dutycycle percentage.
- Fixed an issue with the time delay between retries for PCIe VDM transmit buffer.
- Fixed an issue for the sensor values that were reported in the GET_SENSOR response though these sensors were marked as non-supported in the PDR table.
- Fixed a BundleUpdate issue for Smart components of size greater than 32MB size.
- Fixed an issue where iLO RIBCL queries generated incorrect CAPACITY VALUE responses.
- Fixed an issue where fetching the email details of LDAP user where DistinguishedName containing special characters were causing the two-factor authentication process to fail.
- Fixed the cpqHoMIBStatusArray status issue that did not get updated with proper details when a drive attached to Smart Array P408i-a SR controller failed or degraded.

Enhancements:

- Ability of iLO Redfish to raise a clear event notification for an air filter replacement.
- Support for the Virtual Media Mount URL length increased to 1023 characters.
- Ability of the iLO interface to set and obtain the thermal configuration setting called Smooth Cooling along with the other existing configurations.
- Support for reporting boot progress states and boot time of a system through standard DMTF Redfish API.
- Added support to Add to Queue pane to move the task to the start of the installation queue.
- Added support to display the total estimated fan power consumption of all the fans in the server in the power meter graphs.
- Support for LLDP (link layer discovery protocol) over a Dedicated Network that is used by network devices for advertising their identity, capabilities, and neighbors on a LAN based on IEEE technology.

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

Version: 10.1.19886.8592 (Recommended)

Enhancements

・Updated supported environments

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

Version: 10.1.19879.8585 (D) (Recommended)

Enhancements

・Updated support environments

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022

Version: 233.0.148.0 (Recommended)

Important Note!

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

Fixes

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

Enhancements

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

Supported Devices and Features

This product supports the following network adapters:

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

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

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2025

Version: 233.0.148.0 (B) (Recommended)

Important Note!

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

Enhancements

This product now supports Azure Local 24H2.

Supported Devices and Features

This product supports the following network adapters:

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

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

Broadcom NX1 1Gb Driver for Windows Server x64 Editions

Version: 221.0.8.0 (B) (Recommended)

Important Note!

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

Enhancements

This product now supports Azure Local 24H2.

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 1.10.3-233.0.152.2 (Recommended)

Important Note!

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

Prerequisites

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

Fixes

This product fixes issue where hwrm failure while running ethtool reset.o This product fixes issue where incorrect GSO type reporting in HW-GRO. (Generic Receive Offload)

Enhancements

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

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0

Version: 2025.05.00 (Recommended)

Important Note!

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

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 9.0

Version: 2025.05.00 (Recommended)

Important Note!

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

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9

Version: 3.139t-1 (Recommended)

Important Note!

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64, version 2.41.x or later, for use with these drivers.

Prerequisites

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

Fixes

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

Supported Devices and Features

These drivers support the following network adapters:

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

HPE Intel iavf Drivers for Red Hat Enterprise Linux 9

Version: 4.13.14-1 (Recommended)

Important Note!

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

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

HPE Intel igb Drivers for Red Hat Enterprise Linux 9

Version: 5.19.3-1 (Recommended)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.34.0 or later, for use with these drivers.

Enhancements

This product now supports Red Hat Enterprise Linux 9.6.

Supported Devices and Features

These drivers support the following network adapters:

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

・Intel(R) I350 Gigabit Network Connection

HPE Intel igbn Driver for VMware vSphere 8.0

Version: 2025.05.00 (Recommended)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.26.1 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with firmware.

Supported Devices and Features

These drivers support the following network adapters:

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

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

・Intel(R) I350 Gigabit Network Connection

HPE Intel igbn Driver for VMware vSphere 9.0

Version: 2025.05.00 (Recommended)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.26.1 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with firmware.

Supported Devices and Features

These drivers support the following network adapters:

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

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

・Intel(R) I350 Gigabit Network Connection

Version: 25.04-0.6.1.1 (Recommended)

Important Note!

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

Fixes

The following issues have been fixed in version 25.04-0.6.1.1:A potential deadlock that could occur during the handling of peer memory registration failures.o A sysfs issue that occurred when accessing hardware counters from within a namespace.A race condition between firmware syndrome report and driver initialization during boot.The driver failed to load when a firmware syndrome was detected during boot.The mlnx_tune -l command did not list several operating systems that were in fact supported.LLDP traffic from VFs or BF host PFs was not reaching the representor kernel interfaces.Enabling sFlow with OVN caused OVS to crash.o OVS crashed unexpectedly after DPUs repeatedly broadcast the error message "packet with own source address." Changing the hw-offload setting from true to false while ports were configured led to errors reported in the OVS log.

Enhancements

The following new features and changes have been included in version 25.04-0.6.1.1:User CAPability (UCAP) API: The User CAPability (UCAP) API introduces a mechanism for creating user contexts with specific firmware privileges. It offers fine-grained control over firmware features by exposing each capability as a character device with root-level read-write access. Root processes can grant users these privileges by allowing access to the corresponding character devices. When a user context is created using a UCAP file descriptor, it inherits the associated privileges. For mlx5, two UCAP character devices are provided, and any user context opened with at least one of them is treated as privileged. To guarantee the execution of privileged commands, non-privileged commands are restricted when a privileged user is active on the device.

Supported Devices and Features

Intel i350 Driver for Windows Server 2019

Version: 14.0.7.0 (Recommended)

Important Note!

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

Fixes

Feature Change: Removal of virtualization/SRIOV feature.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

・Intel(R) I350 Gigabit Network Connection

Intel i350 Driver for Windows Server 2022

Version: 14.0.13.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Online Firmware Upgrade Utility for Windows Server x64

Editions, version 5.4.5.0 or later, for use with this driver.

Fixes

Feature Change: Removal of virtualization/SRIOV feature.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

・Intel(R) I350 Gigabit Network Connection

Intel i350 Driver for Windows Server 2025

Version: 14.1.24.0 (Recommended)

Important Note!

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

Fixes

Feature Change: Removal of virtualization/SRIOV feature.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

・Intel(R) I350 Gigabit Network Connection

Intel ice Drivers for Red Hat Enterprise Linux 9

Version: 1.17.8-1 (Recommended)

Important Note!

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

Fixes

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

Enhancements

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

Supported Devices and Features

This product supports the following network adapters:

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

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

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

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

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

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

・Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

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

Intel icea Driver for Microsoft Windows Server 2022

Version: 1.17.72.0 (Recommended)

Important Note!

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

Fixes

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

Supported Devices and Features

This driver supports the following HPE Intel ICEA network adapters:

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

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

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

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

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

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

・Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Intel icea Driver for Microsoft Windows Server 2025

Version: 1.17.73.0 (Recommended)

Important Note!

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

Fixes

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

Supported Devices and Features

This driver supports the following HPE Intel ICEA network adapters:

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

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

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

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

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

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

・Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Intel icea Driver for Windows Server 2019

Version: 1.17.72.0 (Recommended)

Important Note!

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

Fixes

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

Supported Devices and Features

This driver supports the following HPE Intel ICEA network adapters:

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

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

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

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

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

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

・Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Intel icen Driver for VMware vSphere 8.0

Version: 2025.05.00 (Recommended)

Important Note!

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

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

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

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

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

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

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

・Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Intel icen Driver for VMware vSphere 9.0

Version: 2025.05.00 (Recommended)

Important Note!

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

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019

Version: 25.4.26768.0 (Recommended)

Fixes

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

Enhancements

Added support for the DOCA Telemetry Library on Windows.

Supported Devices and Features

This driver supports the following network adapters:

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

Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022

Version: 25.4.26768.0 (Recommended)

Fixes

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

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

Enhancements

Added support for the DOCA Telemetry Library on Windows.

Supported Devices and Features

This driver supports the following network adapters:

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

Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2025

Version: 25.4.26768.0 (Recommended)

Fixes

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

Enhancements

Added support for the DOCA Telemetry Library on Windows.

Supported Devices and Features

This driver supports the following network adapters:

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

Intel QuickAssist Technology driver for Microsoft Windows

Version: 2.5.0.13 (B) (Recommended)

Enhancements

- Updated Supported Environments

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

Version: 2025.10.01 (Recommended)

Important Note!

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

Fixes

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

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

Version: 2.1.36-026 (Recommended)

Important Note!

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

Fixes

Fixed an issue where the kernel call trace when calling smp_processor_id() in real-time kernel.Fixed an issue of accessing NULL SCSI device pointer caused by a rare race condition.Fixed a system crash issue caused by a divide-by-zero condition.Fixed an issue where after a device has been removed, it's possible for a previously scheduled work item for a LUN reset to be executed.

Enhancements

Added a timeout value to RAID path requests to physical devices.

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 2019, Windows Server 2022 and Windows Server 2025

Version: 1016.24.0.1002 (Recommended)

Important Note!

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

combination has been fully qualified.

Fixes

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

Enhancements

Added support for NVMe admin passthru requests.

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

Version: 14.4.393.20 (b) (Recommended)

Important Note!

Release notes:Broadcom Release notes

Prerequisites

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

Enhancements

The raw driver files can be obtained by extracting the Smart Component and then extracting the Emulex installer. Use this command:The extracted files are located:C:¥Users¥Administrator¥Documents¥Emulex¥Drivers¥FC-version Each kit folder has subsequent architecture folders with subsequent OS folders. For example, C:¥Users¥Administrator¥Documents¥Emulex¥Drivers¥FC-version¥x64¥win2019

Supported Devices and Features

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

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

Version: 14.4.393.20 (b) (Recommended)

Important Note!

Release notes:Broadcom Release notes

Prerequisites

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

Enhancements

The raw driver files can be obtained by extracting the Smart Component and then extracting the Emulex

installer. Use this command:The extracted files are located:C:¥Users¥Administrator¥Documents¥Emulex¥Drivers¥FC-version Each kit folder has subsequent architecture folders with subsequent OS folders. For example, C:¥Users¥Administrator¥Documents¥Emulex¥Drivers¥FC-version¥x64¥win2022

Supported Devices and Features

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

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

Version: 14.4.393.20 (b) (Recommended)

Important Note!

Release notes:Broadcom Release notes

Prerequisites

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

Enhancements

The raw driver files can be obtained by extracting the Smart Component and then extracting the Emulex installer. Use this command:The extracted files are located:C:¥Users¥Administrator¥Documents¥Emulex¥Drivers¥FC-version Each kit folder has subsequent architecture folders with subsequent OS folders. For example, C:¥Users¥Administrator¥Documents¥Emulex¥Drivers¥FC-version¥x64¥win2022

Supported Devices and Features

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

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

Version: 9.4.11.20 (b) (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.Release Notes: HPE QLogic Adapters Release Notes

Prerequisites

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

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

Enhancements

Updated to version 9.4.11.20

Supported Devices and Features

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

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

Version: 9.4.11.20 (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.Release Notes: HPE QLogic Adapters Release Notes

Prerequisites

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

Enhancements

Updated to version 9.4.11.20

Supported Devices and Features

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

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

Version: 9.4.11.20 (b) (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.Release Notes: HPE QLogic Adapters Release Notes

Prerequisites

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

Enhancements

Updated to version 9.4.11.20

Supported Devices and Features

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

Important Note!

This component is supported only on Gen11 ProLiant servers.1. The rpm base-name for the QLogic driver has been changed to "qlgc". Upgrades from the earlier "hpqlgc" driver are supported.

Prerequisites

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

Enhancements

Updated Driver version 10.02.14.00-k1

Supported Devices and Features

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

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Broadcom PCIe Switch Management Driver for Microsoft Windows Server 2019

Version: 2.61.54.0 (B) (Optional)

Enhancements

- Updated Supported Device
- Updated SBOM requirement

Supported Devices and Features

- Broadcom PCIe Switch Management Port PEX890xx

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iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2019

Version: 4.7.1.0 (D) (Optional)

Enhancements

- Updated supported platforms

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iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2022

Version: 4.7.1.0 (H) (Optional)

Enhancements

- Updated Supported Environments

iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2025

Version: 4.7.2.0 (F) (Optional)

Enhancements

・Updated Supported Environments

iLO 6 Channel Interface Driver for Microsoft Windows Server 2019

Version: 4.7.1.0 (D) (Optional)

Enhancements

・Updated supported platforms

iLO 6 Channel Interface Driver for Microsoft Windows Server 2022

Version: 4.7.1.0 (H) (Optional)

Enhancements

・Updated Supported Environments

iLO 6 Channel Interface Driver for Microsoft Windows Server 2025

Version: 4.7.2.0 (F) (Optional)

Enhancements

・Updated Supported Environments

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

Version: 9.15.1.268 (E) (Optional)

Enhancements

・Updated Supported Environments

Online ROM Flash Component for Linux - iLO 6

Version: 1.70 (Recommended)

Fixes

Initial Build

Enhancements

Initial Build

Online ROM Flash Component for Windows x64 - iLO 6

Version: 1.70 (Recommended)

Fixes

Initial Build

Enhancements

Initial Build

Online ROM Flash Firmware Package - iLO 6

Version: 1.70 (Recommended)

Fixes

Initial Build

Enhancements

Initial Build

Broadcom Firmware Package for BCM5741x adapters

Version: 233.1.135.7 (Recommended)

Important Note!

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

・Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 233.0.148.0 or later

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

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

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

Broadcom Firmware Package for BCM5750x adapters

Version: 233.1.135.7 (Recommended)

Important Note!

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

・Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 233.0.148.0 or later

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

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

Fixes

This product fixes an issue where the AssignablePhysicalNetworkPorts hyperlink under

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

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64

Version: 2.41.0 (Recommended)

Important Note!

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

Prerequisites

Follow the command line to bring up ethernet device:If local system doesn't configure any network interface for the adapter that are necessary then to create the network config file to bring up interface.o For example in sles15sp1, To create ifcfg-ethX files under /etc/sysconfig/network/

Fixes

This product fixes an issue where MBA configuration reset to defaults on port 3 and 4 for BCM5719 4-port adapters after updating firmware.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for VMware

Version: 1.42.0 (Recommended)

Important Note!

This software package contains combo image v20.33.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.60	21.6.4	1.5.61	21.6.90
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.60	21.6.4	1.5.61	21.6.90
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.60	21.6.4	1.5.61	21.6.90
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.43	21.6.4	1.5.61	21.6.90

Prerequisites

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

the firmware is updated.

Fixes

This product fixes an issue where MBA configuration reset to defaults on port 3 and 4 for BCM5719 4-port adapters after updating firmware.

Supported Devices and Features

This product supports the following network adapters:

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

Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.4.5.0 (B) (Recommended)

Important Note!

This software package contains combo image v20.33.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.60	21.6.4	1.5.61	21.6.90
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.60	21.6.4	1.5.61	21.6.90
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.60	21.6.4	1.5.61	21.6.90
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.43	21.6.4	1.5.61	21.6.90

Prerequisites

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

Enhancements

This product now supports Azure Local 24H2.

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 4.80 (Recommended)

Important Note!

For Firmware installation, there is no OS and drivers dependency. For Firmware compatibility during

production, HPE recommends the drivers for use with the firmware Package product as below,

- Intel icea Driver for Microsoft Windows Server, version 1.17.72.0 or later
- Intel ice Drivers for Linux, version 1.17.8-1 or later
- Intel icen Driver for VMware, version 2025.05.00 or later This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 4.80 (Recommended)

Important Note!

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

- Intel icea Driver for Microsoft Windows Server, version 1.17.72.0 or later
- Intel ice Drivers for Linux, version 1.17.8-1 or later
- Intel icen Driver for VMware, version 2025.05.00 or later This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

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

Version: 4.80 (Recommended)

Important Note!

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

・Intel icea Driver for Microsoft Windows Server, version 1.17.72.0 or later
・Intel ice Drivers for Linux, version 1.17.8-1 or later
・Intel icen Driver for VMware, version 2025.05.00 or later This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

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

Supported Devices and Features

This product supports the following network adapters:
・Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE

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

Version: 4.80 (Recommended)

Important Note!

For Firmware installation, there is no OS and drivers dependency. For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,
・Intel icea Driver for Microsoft Windows Server, version 1.17.72.0 or later
・Intel ice Drivers for Linux, version 1.17.8-1 or later
・Intel icen Driver for VMware, version 2025.05.00 or later This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

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

Supported Devices and Features

This product supports the following network adapters:
・Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE

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

Version: 4.80 (Recommended)

Important Note!

For Firmware installation, there is no OS and drivers dependency. For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,
・Intel icea Driver for Microsoft Windows Server, version 1.17.72.0 or later

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

・Intel icen Driver for VMware, version 2025.05.00 or later This FW version does not support Port.Reset RDE metrics. This product will be enhance to improve the functions in the future release

Fixes

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

Supported Devices and Features

This product supports the following network adapters:

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

Intel Online Firmware Upgrade Utility for Linux x86_64

Version: 1.34.0 (Recommended)

Prerequisites

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

Fixes

This product removes RDE AutoSpeedNegotiationEnabled property.This product fixes an issue where the FW upgrade failed with 562SFP+/x710 adapters due to timeout.This product fixes an issue where the port 2 and port 3 do not always report link down when link is down on 4-Port Ethernet Adapter.

Supported Devices and Features

This package supports the following network adapters:

・Intel(R) I350 Gigabit Network Connection (2-port)

・Intel(R) I350 Gigabit Network Connection (4-port)

Intel Online Firmware Upgrade Utility for VMware

Version: 3.27.0 (Recommended)

Important Note!

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

NIC	EEPROM/NVM Version	OROM Version	Single NVM Version	FW Version
HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	8000FB4C	1.3815.0	N/A	9.54
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	8000FB53	1.3815.0	N/A	9.54

Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	8000123F	1.3815.0	N/A	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	80001234	1.3815.0	N/A	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3815.0	N/A	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3815.0	N/A	N/A

The combo image v1.3815.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.59, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.8.86, 10GbE - v8.2.91, 40GbE - v5.0.20

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

Prerequisites

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

Fixes

This product removes RDE AutoSpeedNegotiationEnabled property.This product fixes an issue where the FW upgrade failed with 562SFP+/x710 adapters due to timeout.This product fixes an issue where the port 2 and port 3 do not always report link down when link is down on 4-Port Ethernet Adapter.

Supported Devices and Features

This package supports the following network adapters:

- Intel(R) I350 Gigabit Network Connection (2-port)
- Intel(R) I350 Gigabit Network Connection (4-port)

Intel Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.4.5.0 (Recommended)

Important Note!

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

NIC	EEPROM/NVM Version	OROM Version	Single NVM Version	FW Version
HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	8000FB4C	1.3815.0	N/A	9.54
HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	8000FB53	1.3815.0	N/A	9.54
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	8000123F	1.3815.0	N/A	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T	80001234	1.3815.0	N/A	N/A

OCP3 Adapter				
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3815.0	N/A	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3815.0	N/A	N/A

The combo image v1.3815.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.59, 40GbE - v1.1.45 & UEFI Drivers: 1GbE - v9.8.86, 10GbE - v8.2.91, 40GbE - v5.0.20

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

Prerequisites

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

Fixes

This product removes RDE AutoSpeedNegotiationEnabled property.This product fixes an issue where the FW upgrade failed with 562SFP+/x710 adapters due to timeout.This product fixes an issue where the port 2 and port 3 do not always report link down when link is down on 4-Port Ethernet Adapter.

Supported Devices and Features

This package supports the following network adapters:

- Intel(R) I350 Gigabit Network Connection (2-port)
- Intel(R) I350 Gigabit Network Connection (4-port)

NVIDIA Firmware Package (FWPKG) for HPE InfiniBand NDR 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter : HPE part numbers P45641-B21 and P45641-H21

Version: 28.45.1200 (Recommended)

Important Note!

Choose the appropriate firmware file format based on your preference and what suits your environment.Disclaimer: Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to http://www.nvidia.com/, you are then leaving HPE.com. Please follow the instructions on http://www.nvidia.com/ to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from http://www.nvidia.com/, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution. A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/connectx7firmwarev28451200/known+issues

Fixes

The following fixes have been included in version 28.45.1200:Fixed DC InfiniBand functionality.

Enhancements

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

Supported Devices and Features

HPE Part Number	NVIDIA InfiniBand Only Adapter	PSID
P45641-B21	HPE InfiniBand NDR 1-port OSFP PCIe5 x16 MCX75310AAS-NEAT Adapter (P45641-B21 and P45641-H21)	MT_0000000970

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

Version: 28.45.1200 (Recommended)

Important Note!

Choose the appropriate firmware file format based on your preference and what suits your environment.Disclaimer: Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to http://www.nvidia.com/, you are then leaving HPE.com. Please follow the instructions on http://www.nvidia.com/ to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from http://www.nvidia.com/, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution. A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/connectx7firmwarev28451200/known+issues

Fixes

The following fixes have been included in version 28.45.1200:Fixed DC InfiniBand functionality.

Enhancements

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

Supported Devices and Features

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

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

Version: 28.45.1200 (Recommended)

Important Note!

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

environment.Disclaimer: Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to http://www.nvidia.com/, you are then leaving HPE.com. Please follow the instructions on http://www.nvidia.com/ to download NVIDIA software or documentation. When downloading the NVIDIA software or documentation, you may be subject to NVIDIA terms and conditions, including licensing terms, if any, provided on its website or otherwise. HPE is not responsible for your use of any software or documents that you download from http://www.nvidia.com/, except that HPE may provide a limited warranty for NVIDIA software in accordance with the terms and conditions of your purchase of the HPE product or solution. A list of known issues with this release is available at: https://docs.nvidia.com/networking/display/connectx7firmwarev28451200/known+issues

Prerequisites

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

Fixes

The following fixes have been included in version 28.45.1200:Fixed DC InfiniBand functionality.

Enhancements

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

Supported Devices and Features

HPE Part Number	NVIDIA InfiniBand Only Adapter	PSID
P45642-B21	HPE InfiniBand NDR200 1-port OSFP PCIe5 x16 MCX75310AAS-HEAT Adapter (P45642-B21 and P45642-H21)	MT_0000000971

Online NVMe SSD Flash Component for Linux (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives

Version: GPK8 (B) (Recommended)

Enhancements

Added support for RHEL 10.

Online NVMe SSD Flash Component for Linux (x64) - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives

Version: GPK6 (B) (Recommended)

Enhancements

Added support for RHEL 10.

Online NVMe SSD Flash Component for Linux (x64) - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives

Version: GPK8 (B) (Recommended)

Enhancements

Added support for RHEL 10.

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

Version: HPK6 (D) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPK6 (B) (Recommended)

Important Note!

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

Fixes

- Fixes the displayed message of direct attached NVMe firmware flashing to align FW activation result by OS.

Enhancements

- Added support for ESXi 9.0

Online NVMe SSD Flash Component for VMware ESXi - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives

Version: GPK8 (Recommended)

Fixes

Fixed Reset issue and regular maintenance firmware update.

Online NVMe SSD Flash Component for VMware ESXi - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives

Version: GPK6 (Recommended)

Fixes

Fixed Reset issue and regular maintenance firmware update.

Online NVMe SSD Flash Component for VMware ESXi - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives

Version: GPK8 (Recommended)

Fixes

Fixed Reset issue and regular maintenance firmware update.

Online NVMe SSD Flash Component for Windows (x64) - KCD6XVUL800G, KCD6XVUL1T60, KCD6XVUL3T20, KCD6XVUL6T40, KCD6XVUL12T8, KCD6XLUL960G, KCD6XLUL1T92, KCD6XLUL3T84, KCD6XLUL7T68 and KCD6XLUL15T3 Drives

Version: GPK8 (Recommended)

Fixes

Fixed Reset issue and regular maintenance firmware update.

Online NVMe SSD Flash Component for Windows (x64) - KCM6FRUL1T92, KCM6FRUL3T84, KCM6FVUL1T60 and KCM6FVUL3T20 Drives

Version: GPK6 (Recommended)

Fixes

Fixed Reset issue and regular maintenance firmware update.

Online NVMe SSD Flash Component for Windows (x64) - KCM6XVUL800G, KCM6XVUL1T60, KCM6XVUL3T20, KCM6XVUL6T40, KCM6XRUL960G, KCM6XRUL1T92, KCM6XRUL3T84 and KCM6XRUL7T68 Drives

Version: GPK8 (Recommended)

Fixes

Fixed Reset issue and regular maintenance firmware update.

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

Version: HPK6 (B) (Recommended)

Important Note!

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

Fixes

- Fixes the displayed message of direct attached NVMe firmware flashing to align FW activation result by OS.

Enhancements

- Added support for Azure Stack HCI 23H2

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

Version: HPK1 (Recommended)

Important Note!

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

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

Fixes

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

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

Version: HPK5 (Recommended)

Fixes

This firmware provides bug fixes for the P5620/P5520.

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

Version: HPK5 (Recommended)

Fixes

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

- HPK3 -> HPK5 (or later version)
- HPK4 -> HPK5 (or later version)

Universal Firmware Package for Drives - VR000480KXLXF

Version: HPK4 (Recommended)

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 - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP

Version: HPK6 (Recommended)

Fixes

Firmware maintenance release.

Universal Firmware Package for Drives - VV003840KXWBF, VV007680KXWBL and VV015360KXWBN

Version: HPK5 (Recommended)

Fixes

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

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

Version: HPK2 (Recommended)

Fixes

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

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

Version: HPK2 (Recommended)

Important Note!

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

Fixes

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

Universal Firmware Package for Drives - MO001600KXVYH, MO003200KXVZD, MO006400KXVZE, VO001920KXVYF, VO003840KXVZA, VO007680KXVZB and VO015360KXVZC

Version: HPK3 (Recommended)

Fixes

・Fix for PCIe link length drop in AMD x2 system configuration

・Fix for drive detection after hot re-insert on Windows

・Fix for other regular FW patch release

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

Version: HPK3 (Recommended)

Fixes

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

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

Version: HPK3 (Recommended)

Fixes

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

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

Version: HPK7 (Recommended)

Fixes

Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF

Version: HPK4 (Recommended)

Fixes

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

Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV

Version: HPK6 (Recommended)

Fixes

To eliminate the risk of gen drop issue.

Online ROM Flash for Linux - Advanced Power Capping Microcontroller Firmware

Version: 1.0.4 (D) (Recommended)

Enhancements

Version 1.0.4 firmware

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

Version: 1.2.2 (F) (Recommended)

Important Note!

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

Enhancements/New Features:

Known Issues:None

Prerequisites

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

Enhancements

Firmware Dependencies:None

Enhancements/New Features:

Known Issues:None

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

Version: 1.0.4 (C) (Recommended)

Enhancements

Version 1.0.4 firmware

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

Version: 1.2.2 (C) (Recommended)

Important Note!

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

Enhancements/New Features:

Known Issues:None

Prerequisites

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

Enhancements

Firmware Dependencies:None

Enhancements/New Features:

Known Issues:None

ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware

Version: 1.0.4 (Recommended)

Enhancements

Version 1.0.4 firmware

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

Version: 1.2.2 (B) (Recommended)

Important Note!

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

Enhancements/New Features:

Known Issues:None

Prerequisites

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

Enhancements

Important Notes:Firmware Dependencies:None

Enhancements/New Features:

Known Issues:None

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

Version: HPD9 (Recommended)

Fixes

Regular FW maintenance release.

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

Version: HPDB (B) (Recommended)

Enhancements

Added support for RHEL 10.

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

Version: HPD3 (B) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPDA (F) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPD5 (Recommended)

Fixes

Added fix to address a rare case where drive health queries can trigger false drive predictive failure.

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

Version: HPD6 (Recommended)

Fixes

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

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

Version: HPD8 (G) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

Online HDD/SSD Flash Component for Linux (x64) - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH Drives

Version: HPD5 (Recommended)

Fixes

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

Supported Devices and Features

For Drive Model "MB010000JYDNH" of 10TB, initial release FW is HPD3 and there is no downgrade support for this model to lower version HPD2.

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

Version: HPD4 (F) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPD6 (Recommended)

Fixes

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

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

Version: HPD4 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL10.

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

Version: HPDC (B) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPD3 (E) (Recommended)

Important Note!

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

(D) etc.

Enhancements

Added Support for RHEL 10

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

Version: HPD5 (F) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPD8 (D) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPD9 (Recommended)

Fixes

Regular FW maintenance release.

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

Version: HPD5 (Recommended)

Fixes

Added fix to address a rare case where drive health queries can trigger false drive predictive failure.

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

Version: HPD6 (Recommended)

Fixes

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

Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH Drives

Version: HPD5 (Recommended)

Fixes

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

Supported Devices and Features

For Drive Model "MB010000JYDNH" of 10TB, initial release FW is HPD3 and there is no downgrade support for this model to lower version HPD2.

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

Version: HPD6 (Recommended)

Fixes

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

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

Version: HPDA (E) (Recommended)

Enhancements

- Added support for ESXi 9.0

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

Version: HPD5 (E) (Recommended)

Enhancements

- Added support for ESXi 9.0

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

Version: HPDB (B) (Recommended)

Fixes

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

Enhancements

- Added support for ESXi 9.0

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

Version: HPD8 (C) (Recommended)

Important Note!

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

Enhancements

・Added support for ESXi 9.0

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

Version: HPD8 (C) (Recommended)

Enhancements

・Added support for ESXi 9.0

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

Version: HPD4 (C) (Recommended)

Important Note!

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

Enhancements

・Added Support for ESXi 9.0

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

Version: HPD4 (C) (Recommended)

Important Note!

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

Enhancements

・Added support for ESXi 9.0

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

Version: HPDC (B) (Recommended)

Important Note!

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

Enhancements

・Added support for ESXi 9.0

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

Version: HPD3 (C) (Recommended)

Important Note!

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

Enhancements

・Added support for ESXi 9.0

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

Version: HPD8 (C) (Recommended)

Important Note!

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

Enhancements

・Added support for ESXi 9.0

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

Version: HPD9 (Recommended)

Fixes

Regular FW maintenance release.

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

Version: HPDB (B) (Recommended)

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPD5 (Recommended)

Fixes

Added fix to address a rare case where drive health queries can trigger false drive predictive failure.

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

Version: HPD6 (Recommended)

Fixes

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

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

Version: HPD8 (D) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF, MB008000JYDPC and MB010000JYDNH Drives

Version: HPD5 (Recommended)

Fixes

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

Supported Devices and Features

For Drive Model "MB010000JYDNH" of 10TB, initial release FW is HPD3 and there is no downgrade support for this model to lower version HPD2.

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

Version: HPD4 (D) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPD6 (Recommended)

Fixes

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

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

Version: HPD4 (C) (Recommended)

Important Note!

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

Fixes

Fix the controller library compatible issue.

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPDC (B) (Recommended)

Important Note!

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

Fixes

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.

Enhancements

・Added support for Azure Stack HCI 23H2

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

Version: HPD3 (C) (Recommended)

Important Note!

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

Fixes

Fix the controller library compatible issue.

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPD3 (B) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPDA (E) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPD5 (E) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPD8 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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 - MB004000JWZVU

Version: HPD3 (B) (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

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: HPD1 (B) (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

Universal Firmware Package for Drives - MB24000JYEVE

Version: HPD1 (B) (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

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

Version: HPD5 (B) (Recommended)

Fixes

Remove ROM flash way from this FWPKG.

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

Version: HPD4 (B) (Critical)

Fixes

Remove ROM flash way from this FWPKG.

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

Version: HPD4 (Recommended)

Fixes

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

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

Version: HPD4 (Critical)

Fixes

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

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

Version: HPG3 (B) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPG1 (N) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL10.

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

Version: HPG1 (M) (Recommended)

Important Note!

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

(D) etc.

Enhancements

Added support for RHEL 10.

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

Version: HPG1 (M) (Recommended)

Important Note!

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

Enhancements

Added Support for RHEL 10.

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

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.

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

Version: HPG4 (D) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPG4 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPG3 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL10.

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

Version: HPG1 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPG6 (F) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPG9 (F) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL10.

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives

Version: HPG7 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL10.

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

Version: HPG1 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 10.

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

Version: HPG3 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL10.

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

Version: HPG3 (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

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.

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

Version: HPG3 (B) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added support for ESXi 9.0

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

Version: HPG1 (K) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added support for ESXi 9.0

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

Version: HPG1 (K) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added support for ESXi 9.0

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

Version: HPG1 (K) (Recommended)

Important Note!

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.In AHCI configuration only offline flashing is supported.

Enhancements

・Added support for ESXi 9.0

Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives

Version: HPG4 (C) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added Support for ESXi 9.0

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

Version: HPG4 (C) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added support for ESXi 9.0

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

Version: HPG3 (C) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added support for ESXi 9.0

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

Version: HPG1 (C) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added support for ESXi 9.0

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

Version: HPG6 (E) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added support for ESXi 9.0

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

Version: HPG9 (E) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added support for ESXi 9.0

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives

Version: HPG7 (D) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added support for ESXi 9.0

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

Version: HPG1 (C) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

・Added support for ESXi 9.0

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

Version: HPG3 (C) (Recommended)

Important Note!

In AHCI configuration only offline flashing is supported.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

- Added support for ESXi 9.0

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

Version: HPG1 (J) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPG1 (J) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2..

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

Version: HPG1 (J) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

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.

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

Version: HPG4 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

Fix the controller library compatible issue.

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPG4 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Fixes

Fix the controller library compatible issue.

Enhancements

・Added support for Azure Stack HCI 23H2

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

Version: HPG3 (B) (Recommended)

Important Note!

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

(D) etc.

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPG3 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPG1 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPG6 (D) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPG9 (D) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTC, VK003840GWTTD, MK000480GWTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives

Version: HPG7 (D) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPG1 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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

Version: HPG3 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Azure Stack HCI 23H2.

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 - MB12000GYESP, MB16000GYEVF and MB20000GYEVH

Version: HPG1 (Recommended)

Fixes

- Fix FW assert and other regular fixes

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 - 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 - MB24000GYEVK

Version: HPG1 (Recommended)

Fixes

FW assert fix and other regular maintenance release.

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.

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

Version: 7.81 (Recommended)

Important Note!

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

Fixes

Fixed an issue where SEDs reverting to foreign after controller reboot due to the otherwise owned flag not being saved to the datastore.Fixed an issue where firmware crash/lockup during NDSR (Non-Disruptive Software Reset) due to a NULL pointer reference when handling a failed drive during logical drive rebuilt.Fixed an issue where master key change failure on Managed SED logical drives due to LU cache flush requests conflicting with the password update process.Fixed an issue where physical drive Predictive Failure status not reported correctly by tools and iLO.Fixed an issue where controller lockup during surface scan caused by stale internal resources when handling Unrecoverable Read Errors (UREs) in unmapped logical drive regions.Fixed an issue where uncorrectable DDR ECC errors could be reported at boot due to cache being accessed before initialization.Fixed an issue where the controller could lock up (0x3120C) when enabling MCP due to duplicate routing entries from flooded BMC requests.Fixed an issue where SATA drives could be incorrectly reported as hot-removed during spin-up by adjusting the dampen timer to align with vendor-specified TTR values.Fixed an issue where the controller could lock up (0x1E30) under high I/O workloads when configuration changes occurred simultaneously with a LUN reset.Fixed an issue where RAID 0 could hang with I/O timeouts and LUN resets during Predictive Spare Rebuild.Fixed an issue where the RAID controller could incorrectly report Online Firmware Activation as enabled. Firmware now checks support during PQI initialization and sets or clears the feature flags accordingly.Fixed an issue where Micron 6550 SED drives could fail to create a Secured Volume due to insufficient timeout during the TCG Revert process.Fixed an issue where Battery Redfish Alerts contained an incorrect OriginOfCondition pointing to a StorageController instead of the Battery resource.Fixed an issue where deleting volumes through PLDM Type 6 could cause a controller lockup if other PLDM commands were sent simultaneously. These commands now return NOT_READY when a long-running RDE operation is in progress.Fixed an issue where an incorrect error message was shown in HII when creating a logical drive on a locked SED, by updating the error message to correctly reflect SED encryption.

Enhancements

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

Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller

Version: 52.32.3-6333 (Recommended)

Important Note!

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

Prerequisites

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

Fixes

- Fix a00143124en_us Advisory: HPE MR Gen11 Controller - MR Gen11 Controllers on HPE Gen11 Servers May Fail to Generate "WriteCacheDataLoss" in the IML
- Fix a00148035en_us Advisory: HPE MR Gen11 Controllers - The Bay And Box NVMe Drive Location Is Not Displayed in the One-Time Boot Menu
- Fix an issue that Read/Write transfers over 128KB on LTO fail in Linux OS
- Fix an issue that Backup Exec doesn't work with LTO
- Fix an issue that controller might be dropped by the iLO in server boot up when there are 240 Logical Drives are configured Fix a rare issue that server health shows critical temporally when remove drive continuously.o Fix an issue that Request Sense command causes task management on the drive where sanitization is in progress.Fix an issue that Redfish PATCH StorageController[ControllerRates] silently sets random values when the value beyond 255 is used.o Fix an issue that incorrect controller error event may be logged when controller is configured as passthrough and do vm reboot Fix an issue that active width, current speed are wrong in Redfish Fabric port when two backplanes connected to same storage port.o Fix a rare issue that NVMe drive link status may fail after reboot
- Fix a rare issue that controller may assert when there are multiple drives removed and inserted in a short time
- Fix an issue that sanitize percentage does not progress on SATA drives if there is SATA passthrough command running
- Fix an issue that sanitize percentage does not progress on NVMe drives
- Fix a rare issue that IO timeout and device reset may occur with stress test of Read/Write and Non-Read/Write commands

Enhancements

- DMTF PLDM Redfish Device Enablement enhancements
  - Redfish Volume Transformation Support
  - POST #Volume.ChangeRAIDLayout: RAID Layout Change. Change in the RAID Layout is achieved by providing the target RAIDType and the list of the drives in the input JSON body.
  - POST #Volume.ChangeRAIDLayout: Resize. ChangeRAIDLayout can be used to resize the volume by adding new Unconfigured Good drives without changing the RAIDType. In such cases RAIDType must not be provided in the input JSON body but the full drive list must be provided accordingly.
  - PATCH Volume[CapacityBytes]: This operation is used for resizing the volume when there is unused size available in the volume. There is no scope for adding any new drives here
  - POST #Volume.CheckConsistency: This operation starts Consistency Check operation on the volume. No input is expected for this operation.
  - Redfish Metrics GET Support

- StorageControllerMetrics: UncorrectableECCErrorCount, CorrectableECCErrorCount, CorrectableParityErrorCount, StateChangeCount
- PortMetrics: SAS.InvalidDwordCount, SAS.LossOfDwordSynchronizationCount, SAS.RunningDisparityErrorCount, PCIeErrors.CorrectableErrorCount, PCIeErrors.FatalErrorCount, PCIeErrors.NonFatalErrorCount
- Each counter can hold a value up to 65535. Once the counter reaches the maximum value the value is not reset.
- Metrics are cleared when user performs Controller NVRAM clear or Redfish ResetToDefaults.ResetAll.

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

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

Online NVMe SSD Flash Component for Linux - MZ1L21T9HCLS-00A07, MZ1L23T8HBLA-00A07 and MZ1L2960HCJR-00A07 Drive

Version: GDC7502Q (D) (Recommended)

Important Note!

Samsung has found that the bridge FW could make error mode on PCIe link down under Lane reduction situation

Fixes

SHA384 fix

Enhancements

SHA384 fix

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

Version: 14.4.473.30 (Recommended)

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0
HPE SN1700E 64Gb Single Port	64Gb	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0

Fibre Channel Host Bus Adapter					
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0

Prerequisites

The minimum version for adapter to support PLDM is 14.0.499.25

Fixes

1.2.Boot Incomplete on RHEL 10

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.4.473.30	14.4.473.30	14.4.473.29	14.4.469.0

Supported Devices and Features

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

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

Version: 02.11.01 (Recommended)

Important Note!

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.11.01	09.15.05	7.39	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.11.01	09.15.05	7.39	0.0
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	64Gb	02.11.01	09.15.05	7.39	0.0

Host Bus Adapter					

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

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

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Firmware Package - UBM10 Backplane PIC PLDM Firmware

Version: 1.04 (Recommended)

Important Note!

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

Prerequisites

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

Enhancements

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

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

Version: 1.24 (G) (Recommended)

Important Note!

Flash FWPKG Component on Web Standalone mode

- PLDM FWPKG component only supports installation of UBM4 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) or HPE MR216/416/408 controllers(Firmware version 52.22.3-4650 or later is need)
- PLDM FWPKG component can be supported installation of UBM4 firmware when direct attached the the server

Prerequisites

- iLO 6 version 1.62 or later is required for Gen12 servers
- iLO 6 version 1.10 or later is required for Gen11 servers
- iLO 5 version 2.72 or later is required for Gen10 Plus servers

Enhancements

Support Gen12 servers.

Firmware Package - UBM5 Backplane PIC PLDM Firmware for Gen11 servers usage

Version: 1.16 (Recommended)

Important Note!

Flash FWPKG Component on Web Standalone mode

- PLDM FWPKG component only supports installation of UBM5 firmware when attached to HPE SR416/SR932(Firmware version 3.01.14.062 or later is need) on HPE Alletra 4120 Server
- PLDM FWPKG component can be supported installation of UBM5 firmware when direct attached the the server

Prerequisites

iLO 6 version 1.10 or later is required.

Fixes

Fixed an issue with PWDIS that could cause errors.Resolved a problem where adding drives to bays 11 and 12 caused resets or missing drives.

Enhancements

Improved DFC settings to ensure proper operation and accurate data reading.Enhanced SES functionality so certain settings remain unchanged.

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

Version: 1.04 (C) (Recommended)

Important Note!

- PLDM FWPKG component only supports installation of UBM6 firmware when attached to HPE SR416i/SR932 controllers(Firmware version 3.01.09.056 or later is need) or HPE Smart Array controllers (Firmware version 5.32 or later is need) or HPE MR216/416/408 controllers(Firmware version 52.22.3-4650 or later is need)
- PLDM FWPKG component can be supported installation of UBM6 firmware when direct attached the the

server

Prerequisites

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

Enhancements

Support SY480 Gen12 server.

Firmware Package - UBM7 Backplane PIC PLDM Firmware

Version: 1.10 (B) (Recommended)

Important Note!

Flash FWPKG Component on Web Standalone mode

- PLDM FWPKG component can be supported installation of UBM7 firmware when Backplane direct attached the the server
- PLDM FWPKG component has minimum supports installation receipe of UBM7 firmware when attached to HPE SR416/SR932(Controller Firmware version 03.01.23.072 or later is need)

Prerequisites

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

Enhancements

Support SY480 Gen12 server.

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems

Version: 06.03.04.058.0 (Recommended)

Important Note!

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

Enhancements/New Features:

Known Issues:None

Fixes

Firmware Dependencies:Known Issues:None

Enhancements

This version is in compliance with Intel Catlow RPL-E Refresh MR1 Unify BKC guidance.

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems

Version: 06.03.04.058.0 (B) (Recommended)

Enhancements

Version 06.03.04.058.0 firmware

ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems

Version: 06.01.04.204.0 (Recommended)

Fixes

Resolved various issues to improve system stability and performance.

Enhancements

Resolved various issues to improve system stability and performance.

ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems

Version: 06.03.04.058.0 (Recommended)

Important Note!

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

Enhancements/New Features:

Known Issues:None

Fixes

Firmware Dependencies:Known Issues:None

Enhancements

This version is in compliance with Intel Catlow RPL-E Refresh MR1 Unify BKC guidance.

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

Version: 6.1.0.0 (A) (Optional)

Prerequisites

The management interface driver and management agents must be installed on the server./usr/bin/openssl, need to set PATH environment variable to direct HPONCFG to the right/intended openssl.

Fixes

None

Enhancements

Added support for Red Hat Enterprise Linux 10

HPE Lights-Out Online Configuration Utility for Windows x64 Editions

Version: 6.0.0.0 (A) (Optional)

Important Note!

RIBCL and the scripting tools including HPQLOCFG, HPE Lights-Out XML PERL Scripting Sample for Linux (includes LOCFG.PL), HPE Lights-Out XML Scripting Sample for Windows, HPONCFG for Windows, HPONCFG for Linux, and HPLOMIG have entered the sustenance stage. HPE will now provide only critical bugs and security fixes for RIBCL and the scripting tools. Hewlett Packard Enterprise recommends using the iLOREST Tool (Download Pages and User Guide) or iLO RESTful API

Prerequisites

This utility requires the following minimum firmware revisions:

・Integrated Lights-Out 5 firmware v1.30 or later

・Microsoft .Net Framework 2.0 or later is required to launch HPONCFG GUI.

Fixes

None.

Enhancements

Added support for Windows 2025

HPE iLO Driver Bundle Smart Component for ESXi 8.0 and ESXi 9.0

Version: 2025.03.00 (Recommended)

Enhancements

Support VMware ESXi 9.0.

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

Version: 2025.09.01 (Recommended)

Important Note!

・Actual ESXi Version is 6.50.11.0

Fixes

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

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

Version: 2025.09.01 (Recommended)

Important Note!

・Actual ESXi Version is 6.50.11.0

Fixes

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

Enhancements

・Added support for VMware ESXi 9.0

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

Version: 2025.08.01 (Recommended)

Important Note!

・Actual ESXi Version is 007.3212.0000.0000

Enhancements

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

- Command: storcli /cx set factory repurpose

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

Version: 2025.08.01 (Recommended)

Important Note!

・Actual ESXi Version is 007.3212.0000.0000

Enhancements

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

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2024.09.01 (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Prerequisites

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

Enhancements

Driver version 5.4.82.1

Supported Devices and Features

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

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HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2025.05.01 (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file. This driver is only supported on VMware ESXi 8.0u3.

Prerequisites

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

Enhancements

Driver version 5.4.85.0-1 This driver is only supported on VMware ESXi 8.0u3

Supported Devices and Features

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

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

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

HPE QLogic Fibre Channel driver component for VMware vSphere 9.0

Version: 2025.05.01 (Recommended)

Important Note!

This component is supported only on Gen11 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 5.5.85.1 This driver is only supported on VMware ESXi 9.0

Supported Devices and Features

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

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

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

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

HPE QLogic Fibre Channel Enablement Kit for Host Bus Adapter for Linux

Version: 6.0.0.1-4 (c) (Recommended)

Important Note!

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:The Enablement Kit requires that the target environment have the libHBAAPI package installed from your OS installation media.

Enhancements

Updated the kit to version 6.0.0.1-4

Supported Devices and Features

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

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

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

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

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

Version: 4.3.0 (Recommended)

Prerequisites

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

Fixes

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

Enhancements

See the AMS Release Notes for information about the enhancements in this release.

Agentless Management Service for Microsoft Windows x64

Version: 4.40.0.0 (Recommended)

Important Note!

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

・If Yes is selected, SMA service will be installed and set to running state.

・If No is selected, SMA service will be installed but the service is not enabled.

IMPORTANT: The SNMP service community name and permission must also be setup. This is not done by "EnableSma.bat".o AMS Control Panel Applet:The AMS control panel applet UI is best displayed on the system when screen resolution is 1280 x 1024 pixels or higher and text size 100%.Test trap generated from AMS Control Panel Applet requires iLO6 firmware version 1.1 and newer.When in iLO6 high security mode (e.g. FIPS mode), MD5 authentication protocol will not be shown.

Prerequisites

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

Fixes

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

Enhancements

See the AMS Release Notes for information about the enhancements in this release.

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

Version: 2025.05.01 (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 enhancements in this release.

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

Version: 8.12.52.0 (Recommended)

Enhancements

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

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

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

Version: 7.3212.0.0 (Recommended)

Enhancements

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

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

Version: 6.50.11.0 (Recommended)

Fixes

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

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

Version: 6.50.11.0 (Recommended)

Fixes

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

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

Version: 6.50.11.0 (Recommended)

Prerequisites

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

Fixes

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

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

Version: 6.50.11.0 (Recommended)

Fixes

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

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

Version: 6.50.11.0 (Recommended)

Fixes

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

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

Version: 6.50.11.0 (Recommended)

Important Note!

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

Fixes

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

Fixed an issue where a duplicate entry for the physical drive was displayed.