

HA8000V シリーズ

Service Pack for HA8000V (SPH)

Version 7.41 8

Readme

2024年6月

1. はじめに

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

1.1 他社所有名称に対する表示

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

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

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

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

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

VMware は、米国およびその他の地域における VMware, Inc. の登録商標または商標です。

1.2 注意事項

- (1) 本書は改良のため、予告なしに変更することがあります。
- (2) Service Pack for HA8000V のご使用に当たっては、<CD ドライブ>¥EULA に格納された「エンドユーザー使用許諾契約書」をお読みください。
- (3) Service Pack for HA8000V に瑕疵が無いことを保証するものではありません。
- (4) Service Pack for HA8000V は、「3 適用機種及びOS」記載のプラットフォームでご使用いただけます。
- (5) 天災、人災、事故等で Service Pack for HA8000V 使用中に電源が切れまる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。

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

1.3 変更履歴

発行日	変更内容
2024年6月	初版

2. Service Pack for HA8000V (SPH)について

Service Pack for HA8000V(以降 SPH と呼びます)は、1 台または複数台の HA8000V サーバのファームウェア/システムソフトウェアの更新を簡素化するソリューションです。

SPH には、サーバ/コントローラ/ストレージのファームウェア/ドライバ/ユーティリティパッケージが含まれます。また、SPH に収録されている Smart Update Manager(以降 SUM と呼びます)は、更新されたファームウェアおよびシステムソフトウェアをデプロイする推奨ツールです。

SPH/SUM を使うことで、ファームウェアおよびシステムソフトウェアのオンラインアップデートが可能となります。アップデート操作を SUM に統合することにより、個々の HA8000V サーバのアップデートが迅速になり、システム全体のアップデート時間を短縮することができます。

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

3. 適用機種及びOS

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

3.1 適用機種

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

3.2 適用 OS

- Microsoft® Windows Server® 2022
- Microsoft® Windows Server® 2019
- Red Hat® Enterprise Linux® Server 9.2
- Red Hat® Enterprise Linux® Server 8.8
- VMware ESXi™ 8.0
- VMware ESXi™ 7.0

4. 変更内容

本章では、今回のリリースの変更内容を記載しています。

4.1 新規サポート内容

『3 適用機種及びOS』を参照してください。

(1) 追加サポート機種及びOS

- 追加サポート機種
 - HA8000V/DL20 Gen11 (U65)
 - HA8000V/ML30 Gen11 (U65)
- 追加サポートOS
 - Red Hat® Enterprise Linux® Server 9.2
 - Red Hat® Enterprise Linux® Server 8.8

(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
 - なし

5. 注意事項

本章では、SPH をご使用になる上で、注意頂く内容を記載しています。

5.1 ドライバ・ユーティリティなどの適用について

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

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

5.2 OS の新規・再セットアップの場合の注意事項

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

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

GUI の場合：

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

CLI の場合：

"--softwareonly"パラメータを使用してください。

例) # ./smartupdate --s --softwareonly

5.3 SUM によるアップデート時の注意事項

(1) ファームウェア/ドライバの依存関係について

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

GUI の場合：

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

CLI の場合：

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

例) # ./smartupdate --report

(2) 適用バージョンについて

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

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

【手動適用方法】

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

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

表示されます。

【注意】

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

(3) SUM の展開モードに関する補足説明

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

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

※1：ゲスト OS は対象外。

※2：対象ノードにホスト OS の IP アドレスを指定した場合。

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

(4) SUM GUI での適用パッケージの選択について

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

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

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

【注意】

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

(5) Linux 環境における適用パッケージのOSライブラリ依存について

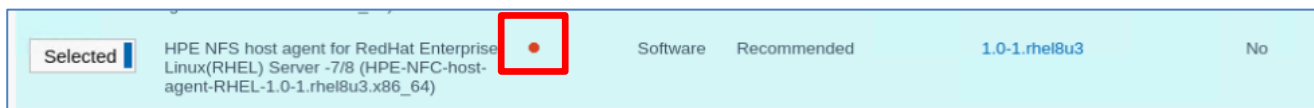
Linux 環境で利用するパッケージには、特定の OS ライブラリを前提とするものがあります。そのパッケージを適用する際、前提とする OS ライブラリが事前にインストールされていない場合、インベントリ完了後、または展開(Deploy)完了後に依存関係エラーとなります。

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

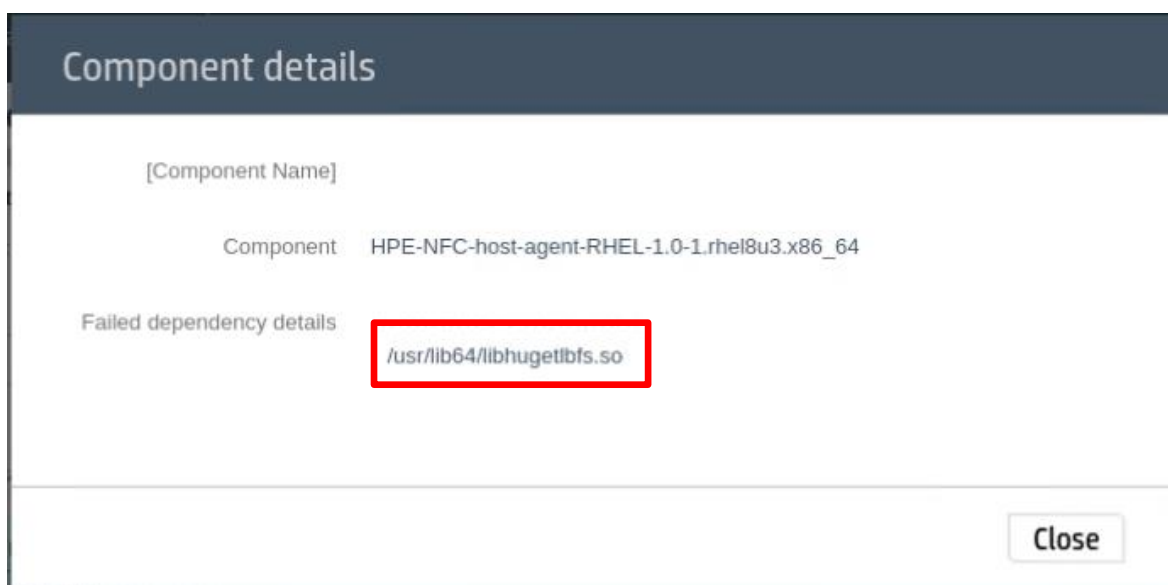
なお、依存する OS ライブラリは、依存関係解消後に新たな依存関係が発生する場合があります、その場合は依存関係エラーが解消するまで、SPH 適用を繰り返す必要があります。

【インベントリ完了後のエラー表示】

エラーが発生したパッケージは、赤丸(赤枠内)で表示されます。



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



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

【展開(Deploy)完了後のエラー表示】

エラーが発生したパッケージは、赤丸(赤枠内)で表示されます。

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

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

```
Deployment log

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

Component log

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

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

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

Return code: -3

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

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

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

Close
```

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

(6) iLO レポジトリを利用したアップデートについて

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

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。

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

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

iLO日付/時刻(UTC): 2021-12-01 13:09

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

すべて削除

ファームウェアのアップデート
iLOレポジトリにアップロード
キューに追加

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

(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ー HA8000V シリーズ ホームページ](#)」に掲載されている「製品マニュアル」よりダウンロードしてください。
- (2) オンラインアップデート(OS 稼働中のアップデート)の場合、装置の再起動を実施してください。
- (3) 装置の給電を停止(電源ケーブルの抜去や UPS の出力停止等)後、10 秒待った後に給電を再開してください。

※x.xx の部分にはバージョンが入ります。

(8) オンライン SUM 実行中の OS 再起動について

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

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

5.4 SUM でのランゲージパックバージョン表示と適用について

SUM(Smart Update Manager)で表示される、適用中のランゲージパックのバージョンが正しく表示されない場合があります。正しいバージョンを確認するためには、iLO WEB インタフェースの[管理]>[言語]ページより現在適用中の言語パックのバージョンをご確認下さい。

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

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

手動で選択し展開を実施してください。

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

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

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

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

※：対象ノードが VMware の場合は使用不可

【iLO WEB インタフェースからの更新手順】

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

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

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

5.6 ASR(Automatic Server Recovery)について

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

5.6.1 ASR 操作用の 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

(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.GetCimInstanceCommand
```

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

5.7.2 iSUT のインストール

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

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

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

No.	VMware バージョン	SPH package ファイル名	オフラインバンドルファイル名
1	VMware ESXi™ 7.0	cp060118.zip	sutComponent_701.5.0.0.16-*.zip
2	VMware ESXi™ 8.0	cp060119.zip	sutComponent_800.5.0.0.11-*.zip

- (2) 取り出した iSUT のオフラインバンドルを VMware ESXi の「datastore1」直下へ転送してください。
- (3) VMware ESXi のコンソール画面で「F2」キーを押すと Login 画面が表示されるので、root ユーザーでログインします。
- (4) 「System Customization」画面が表示されるので、「Troubleshooting Options」を選択し、「Enter」キーを押下します。
- (5) 「Enable ESXi Shell」を選択し、「Enter」キーを押下して ESXi Shell を "Enable" に変更します。
- (6) 「Alt」 + 「F1」キーを押下し、VMware ESXi の Shell 画面を開き、root ユーザーでログインします。
- (7) 次のコマンドを実行しインストールします。

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

- (8) VMware ESXi を再起動してください。
- (9) 再起動後、再度 VMware ESXi の Shell 画面を開き、root ユーザーでログインします。
- (10) 次のコマンドを実行し、iSUT を AutoDeployReboot モードに設定します。
- (11) 作業終了後、OnDemand モードに変更します。iSUT を AutoDeployReboot モードに設定すると、iSUT が常駐し常時稼働し続けます。アップデート作業時以外は iSUT の稼働は不要ですので、常駐解除することを推奨します。iSUT を OnDemand モードに設定するには、次のコマンドを実行してください。

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

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

(1) iLO の認証情報設定

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

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

① iSUT への認証情報設定

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

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

【注意】

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

② iLO のセキュリティ条件の変更

iLO で"ホスト認証が必要"を「無効」に設定します。

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

(2) iSUT の設定確認・変更

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

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

5.7.4 リモートオンライン 展開モードをご使用時の注意事項

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

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

【iLO が AMS に接続している場合】

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

【iLO が AMS に接続していない場合】

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

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

- 装置電源 OFF(ESXi ホストシャットダウン)

- 装置電源ケーブルの抜き差し
- 装置電源 ON(ESXi ホスト起動)

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

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

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

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

No.	VMware バージョン	SPH package ファイル名	オフラインバンドルファイル名
1	VMware ESXi™ 7.0 Update3 (Build 20842708)	cp059816.zip	amsdvComponent_701.11.6.0.3-*.zip
2	VMware ESXi™ 8.0 GA		

- (2) 取り出した amsdv のオフラインバンドルを VMware ESXi の「datastore1」直下へ転送してください。
- (3) VMware ESXi のコンソール画面で「F2」キーを押すと Login 画面が表示されるので、root ユーザーでログインします。
- (4) 「System Customization」画面が表示されるので、「Troubleshooting Options」を選択し、「Enter」キーを押下します。
- (5) 「Enable ESXi Shell」を選択し、「Enter」キーを押下して ESXi Shell を "Enable" に変更します。
- (6) 「Alt」+「F1」キーを押下し、VMware ESXi の Shell 画面を開き、root ユーザーでログインします。
- (7) 次のコマンドを実行しインストールします。

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

- (8) VMware ESXi を再起動してください。
- (9) 再起動後、再度 VMware ESXi の Shell 画面を開き、root ユーザーでログインします。
- (10) 次のコマンドを実行し、amsdv が running 表示されていることを確認してください。

```
/etc/init.d/amsdv status
```

[表示例]

```
amsdv-smadvrev is running xxxxxxxxxxxx x
amsdv-ahsdv is running xxxxxxxxxxxx x
amsdv-amsdv is running xxxxxxxxxxxx x
amsdv-smadv is running xxxxxxxxxxxx x
```

5.8 SUM オフライン展開モードご使用時の注意事項

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

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

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

【注意】

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

5.9 Intel 製ネットワークアダプタご使用について

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

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

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

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

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

5.10 RAID コントローラ環境での OS セットアップの注意事項

5.10.1 ドライバの適用について

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

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

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

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

(*1) : □には製品構成などにより異なった英数字が入ります。

6. SPH収録コンテンツ一覧

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

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

以降、それぞれのコンテンツについて説明します。

6.1 お客様により適用が必要なコンテンツ

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

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

【Broadcom 製 1Gb LAN アダプタ】

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

(1) ネットワークアダプタ レジストリ設定の適用

ネットワークアダプタ レジストリ設定を適用するには、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	Update
1	Integrated Smart Update Tools 5.0.0 for ESXi 7.0	cp060118.zip	-	2024.03.00	701.5.0.0.16-0	更新
2	Integrated Smart Update Tools 5.0.0 for ESXi 8.0	cp060119.zip	-	2024.03.00	800.5.0.0.11-0	更新
3	Integrated Smart Update Tools for Linux x64	sut-5.0.0-13.linux.x86_64.rpm	-	5.0.0.0	5.0.0-13.linux	更新
4	Integrated Smart Update Tools for Windows x64	cp060120.exe	-	5.0.0.0	5.0.0.0	更新

6.2.2 BIOS - System ROM

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
5	Online ROM Flash Component for Linux - System ROM U54	firmware-system-oem-u54-2.16_2024_03_01-1.1.x86_64.rpm	System BIOS - U54	2.16_03-01-2024	v2.16 (03/01/2024)	更新
6	Online ROM Flash Component for Linux - System ROM U59	firmware-system-oem-u59-2.16_2024_03_01-1.1.x86_64.rpm	System BIOS - U59	2.16_03-01-2024	v2.16 (03/01/2024)	更新
7	Online ROM Flash Component for Linux - System ROM U63	firmware-system-oem-u63-2.16_2024_03_01-1.1.x86_64.rpm	System BIOS - U63	2.16_03-01-2024	v2.16 (03/01/2024)	更新
8	Online ROM Flash Component for Linux - System ROM U65	firmware-system-oem-u65-1.48_2024_03_14-1.1.x86_64.rpm	System BIOS - U65	1.48_03-14-2024	v1.48 (03/14/2024)	更新
9	Online ROM Flash Component for Windows x64 - System ROM U54	cp059992.exe	System BIOS - U54	2.16_03-01-2024	v2.16 (03/01/2024)	更新
10	Online ROM Flash Component for Windows x64 - System ROM U59	cp060067.exe	System BIOS - U59	2.16_03-01-2024	v2.16 (03/01/2024)	更新
11	Online ROM Flash Component for Windows x64 - System ROM U63	cp060009.exe	System BIOS - U63	2.16_03-01-2024	v2.16 (03/01/2024)	更新
12	Online ROM Flash Component for Windows x64 - System ROM U65	cp060504.exe	System BIOS - U65	1.48_03-14-2024	v1.48 (03/14/2024)	更新
13	ROM Flash Firmware Package - System ROM U54	OEM.U54_2.16_03_01_2024.fwpkg	System BIOS - U54	2.16_03-01-2024	v2.16 (03/01/2024)	更新
14	ROM Flash Firmware Package - System ROM U59	OEM.U59_2.16_03_01_2024.fwpkg	System BIOS - U59	2.16_03-01-2024	v2.16 (03/01/2024)	更新
15	ROM Flash Firmware Package - System ROM U63	OEM.U63_2.16_03_01_2024.fwpkg	System BIOS - U63	2.16_03-01-2024	v2.16 (03/01/2024)	更新
16	ROM Flash Firmware Package - System ROM U65	OEM.U65_1.48_03_14_2024.fwpkg	System BIOS - U65	1.48_03-14-2024	v1.48 (03/14/2024)	更新

6.2.3 Driver - Chipset

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
17	Identifiers for Intel Xeon E-24xx Processor for Microsoft Windows	cp057242.exe	-	10.1.19577.8410	10.1.19577.8410	
18	Identifiers for Intel Xeon Scalable Processors (Fourth and Fifth Generation) for Microsoft Windows	cp059733.exe	-	10.1.19485.8386 (B)	10.1.19485.8386 (B)	更新

6.2.4 Driver – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
19	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019	cp059019.exe	BCM 57414 10/25GbE 2p SFP28 Adptr	228.0.121.0	228.0.121.0	更新
20	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019	cp059019.exe	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	228.0.121.0	228.0.121.0	更新
21	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019	cp059019.exe	BCM 57416 10GbE 2p BASE-T Adptr	228.0.121.0	228.0.121.0	更新
22	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019	cp059019.exe	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	228.0.121.0	228.0.121.0	更新
23	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019	cp059019.exe	BCM 57412 10GbE 2p SFP+ Adptr	228.0.121.0	228.0.121.0	更新
24	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019	cp059019.exe	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	228.0.121.0	228.0.121.0	更新
25	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019	cp059019.exe	Broadcom NetXtreme-E BCM5750x adapters	228.0.121.0	228.0.121.0	更新
26	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp059020.exe	BCM 57414 10/25GbE 2p SFP28 Adptr	228.0.121.0	228.0.121.0	更新
27	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp059020.exe	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	228.0.121.0	228.0.121.0	更新
28	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp059020.exe	BCM 57416 10GbE 2p BASE-T Adptr	228.0.121.0	228.0.121.0	更新
29	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp059020.exe	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	228.0.121.0	228.0.121.0	更新
30	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp059020.exe	BCM 57412 10GbE 2p SFP+ Adptr	228.0.121.0	228.0.121.0	更新
31	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp059020.exe	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	228.0.121.0	228.0.121.0	更新
32	Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022	cp059020.exe	Broadcom NetXtreme-E BCM5750x adapters	228.0.121.0	228.0.121.0	更新
33	Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp059038.exe	Broadcom BCM5719 Ethernet 1Gb 4- port Base-T Adapter for HPE	221.0.5.0 (D)	221.0.5.0 (D)	更新
34	Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp059038.exe	Broadcom BCM5719 Ethernet 1Gb 4- port Base-T OCP3 Adapter for HPE	221.0.5.0 (D)	221.0.5.0 (D)	更新
35	Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp059038.exe	Broadcom BCM5720 Ethernet 1Gb 2- port BASE-T LOM Adapter for HPE	221.0.5.0 (D)	221.0.5.0 (D)	更新
36	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-228.0.133.0.rhel8u8.6_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	1.10.2- 228.0.133.0	1.10.2- 228.0.133.0.r hel8u8	更新

37	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-228.0.133.0.rhel8u8.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel8u8	更新
38	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-228.0.133.0.rhel8u8.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel8u8	更新
39	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-228.0.133.0.rhel8u8.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel8u8	更新
40	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-228.0.133.0.rhel8u8.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel8u8	更新
41	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-228.0.133.0.rhel8u8.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel8u8	更新
42	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-228.0.133.0.rhel8u8.x86_64.rpm	Broadcom NetXtreme-E BCM5750x adapters	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel8u8	更新
43	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.2-228.0.133.0.rhel9u2.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel9u2	更新
44	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.2-228.0.133.0.rhel9u2.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel9u2	更新
45	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.2-228.0.133.0.rhel9u2.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel9u2	更新
46	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.2-228.0.133.0.rhel9u2.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel9u2	更新
47	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.2-228.0.133.0.rhel9u2.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel9u2	更新
48	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.2-228.0.133.0.rhel9u2.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel9u2	更新
49	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 9	kmod-bnxt_en-1.10.2-228.0.133.0.rhel9u2.x86_64.rpm	Broadcom NetXtreme-E BCM5750x adapters	1.10.2-228.0.133.0	1.10.2-228.0.133.0.rhel9u2	更新
50	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp059017.zip	BCM 57414 10/25GbE 2p SFP28 Adptr	2024.03.00	228.0.216.0-10EM.700.1.0.15843807	更新
51	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp059017.zip	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	2024.03.00	228.0.216.0-10EM.700.1.0.15843807	更新
52	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp059017.zip	BCM 57416 10GbE 2p BASE-T Adptr	2024.03.00	228.0.216.0-10EM.700.1.0.15843807	更新
53	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp059017.zip	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	2024.03.00	228.0.216.0-10EM.700.1.0.15843807	更新
54	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp059017.zip	BCM 57412 10GbE 2p SFP+ Adptr	2024.03.00	228.0.216.0-10EM.700.1.0.15843807	更新
55	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp059017.zip	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	2024.03.00	228.0.216.0-10EM.700.1.0.15843807	更新
56	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp059017.zip	Broadcom NetXtreme-E BCM5750x adapters	2024.03.00	228.0.216.0-10EM.700.1.0.15843807	更新
57	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp059018.zip	BCM 57414 10/25GbE 2p SFP28 Adptr	2024.03.00	228.0.216.0-10EM.800.1.0.20613240	更新

58	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp059018.zip	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	2024.03.00	228.0.216.0- 10EM.800.1.0 .20613240	更新
59	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp059018.zip	BCM 57416 10GbE 2p BASE-T Adptr	2024.03.00	228.0.216.0- 10EM.800.1.0 .20613240	更新
60	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp059018.zip	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	2024.03.00	228.0.216.0- 10EM.800.1.0 .20613240	更新
61	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp059018.zip	BCM 57412 10GbE 2p SFP+ Adptr	2024.03.00	228.0.216.0- 10EM.800.1.0 .20613240	更新
62	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp059018.zip	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	2024.03.00	228.0.216.0- 10EM.800.1.0 .20613240	更新
63	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0	cp059018.zip	Broadcom NetXtreme-E BCM5750x adapters	2024.03.00	228.0.216.0- 10EM.800.1.0 .20613240	更新
64	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 8.	libbnxt_re-228.0.133.0-rhel8u8.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	228.0.133.0	228.0.133.0	新規追加
65	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 8.	libbnxt_re-228.0.133.0-rhel8u8.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	228.0.133.0	228.0.133.0	新規追加
66	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 8.	libbnxt_re-228.0.133.0-rhel8u8.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	228.0.133.0	228.0.133.0	新規追加
67	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 8.	libbnxt_re-228.0.133.0-rhel8u8.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	228.0.133.0	228.0.133.0	新規追加
68	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 8.	libbnxt_re-228.0.133.0-rhel8u8.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	228.0.133.0	228.0.133.0	新規追加
69	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 8.	libbnxt_re-228.0.133.0-rhel8u8.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	228.0.133.0	228.0.133.0	新規追加
70	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 8.	libbnxt_re-228.0.133.0-rhel8u8.x86_64.rpm	Broadcom NetXtreme-E BCM5750x adapters	228.0.133.0	228.0.133.0	新規追加
71	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 2.	libbnxt_re-228.0.133.0-rhel9u2.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 Adptr	228.0.133.0	228.0.133.0	新規追加
72	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 2.	libbnxt_re-228.0.133.0-rhel9u2.x86_64.rpm	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	228.0.133.0	228.0.133.0	新規追加
73	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 2.	libbnxt_re-228.0.133.0-rhel9u2.x86_64.rpm	BCM 57416 10GbE 2p BASE-T Adptr	228.0.133.0	228.0.133.0	新規追加
74	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 2.	libbnxt_re-228.0.133.0-rhel9u2.x86_64.rpm	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	228.0.133.0	228.0.133.0	新規追加
75	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 2.	libbnxt_re-228.0.133.0-rhel9u2.x86_64.rpm	BCM 57412 10GbE 2p SFP+ Adptr	228.0.133.0	228.0.133.0	新規追加
76	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 2.	libbnxt_re-228.0.133.0-rhel9u2.x86_64.rpm	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	228.0.133.0	228.0.133.0	新規追加
77	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 9 Update 2.	libbnxt_re-228.0.133.0-rhel9u2.x86_64.rpm	Broadcom NetXtreme-E BCM5750x adapters	228.0.133.0	228.0.133.0	新規追加
78	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139k-1.rhel8u8.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-	3.139k-1	3.139k- 1.rhel8u8	更新

			port Base-T Adapter for HPE			
79	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139k-1.rhel8u8.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	3.139k-1	3.139k-1.rhel8u8	更新
80	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139k-1.rhel8u8.x86_64.rpm	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	3.139k-1	3.139k-1.rhel8u8	更新
81	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139k-1.rhel9u2.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	3.139k-1	3.139k-1.rhel9u2	更新
82	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139k-1.rhel9u2.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	3.139k-1	3.139k-1.rhel9u2	更新
83	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9	kmod-tg3-3.139k-1.rhel9u2.x86_64.rpm	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	3.139k-1	3.139k-1.rhel9u2	更新
84	HPE Intel iavf Drivers for Red Hat Enterprise Linux 8	kmod-hp-iavf-4.9.1-1.rhel8u8.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	4.9.1-1 (C)	4.9.1-1.rhel8u8	更新
85	HPE Intel iavf Drivers for Red Hat Enterprise Linux 8	kmod-hp-iavf-4.9.1-1.rhel8u8.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	4.9.1-1 (C)	4.9.1-1.rhel8u8	更新
86	HPE Intel iavf Drivers for Red Hat Enterprise Linux 8	kmod-hp-iavf-4.9.1-1.rhel8u8.x86_64.rpm	Intel E810-XXVDA2 adapter	4.9.1-1 (C)	4.9.1-1.rhel8u8	更新
87	HPE Intel iavf Drivers for Red Hat Enterprise Linux 8	kmod-hp-iavf-4.9.1-1.rhel8u8.x86_64.rpm	Intel E810-XXVDA2 OCP3 adapter	4.9.1-1 (C)	4.9.1-1.rhel8u8	更新
88	HPE Intel iavf Drivers for Red Hat Enterprise Linux 8	kmod-hp-iavf-4.9.1-1.rhel8u8.x86_64.rpm	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	4.9.1-1 (C)	4.9.1-1.rhel8u8	更新
89	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.9.1-1.rhel9u2.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	4.9.1-1 (C)	4.9.1-1.rhel9u2	更新
90	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.9.1-1.rhel9u2.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	4.9.1-1 (C)	4.9.1-1.rhel9u2	更新
91	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.9.1-1.rhel9u2.x86_64.rpm	Intel E810-XXVDA2 adapter	4.9.1-1 (C)	4.9.1-1.rhel9u2	更新
92	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.9.1-1.rhel9u2.x86_64.rpm	Intel E810-XXVDA2 OCP3 adapter	4.9.1-1 (C)	4.9.1-1.rhel9u2	更新
93	HPE Intel iavf Drivers for Red Hat Enterprise Linux 9	kmod-hp-iavf-4.9.1-1.rhel9u2.x86_64.rpm	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	4.9.1-1 (C)	4.9.1-1.rhel9u2	更新
94	HPE Intel igb Drivers for Red	kmod-hp-igb-6.14.16-	Intel I350-T4	6.14.16-1	6.14.16-	更新

	Hat Enterprise Linux 8	1.rhel8u8.x86_64.rpm	Ethernet 1Gb 4-port BASE-T Adapter for HPE	(C)	1.rhel8u8	
95	HPE Intel igb Drivers for Red Hat Enterprise Linux 8	kmod-hp-igb-6.14.16-1.rhel8u8.x86_64.rpm	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	6.14.16-1 (C)	6.14.16-1.rhel8u8	更新
96	HPE Intel igb Drivers for Red Hat Enterprise Linux 9	kmod-hp-igb-5.14.16-1.rhel9u2.x86_64.rpm	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	5.14.16-1 (C)	5.14.16-1.rhel9u2	更新
97	HPE Intel igb Drivers for Red Hat Enterprise Linux 9	kmod-hp-igb-5.14.16-1.rhel9u2.x86_64.rpm	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	5.14.16-1 (C)	5.14.16-1.rhel9u2	更新
98	HPE Intel igbn Driver for VMware vSphere 7.0	cp056780.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	2023.09.00	1.11.2.0-10EM.700.1.0.15843807	
99	HPE Intel igbn Driver for VMware vSphere 7.0	cp056780.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	2023.09.00	1.11.2.0-10EM.700.1.0.15843807	
100	HPE Intel igbn Driver for VMware vSphere 8.0	cp056804.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	2023.09.00	1.11.2.0-10EM.800.1.0.20613240	
101	HPE Intel igbn Driver for VMware vSphere 8.0	cp056804.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	2023.09.00	1.11.2.0-10EM.800.1.0.20613240	
102	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8 (x86_64)	kmod-mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel8u8.x86_64.rpm	MLX MCX631102 10/25GbE 2p SFP28 Adptr	23.10-1.1.9.1	23.10	更新
103	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8 (x86_64)	kmod-mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel8u8.x86_64.rpm	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	23.10-1.1.9.1	23.10	更新
104	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8 (x86_64)	kmod-mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel8u8.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	23.10-1.1.9.1	23.10	更新
105	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8 (x86_64)	kmod-mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel8u8.x86_64.rpm	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	23.10-1.1.9.1	23.10	更新
106	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8 (x86_64)	kmod-mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel8u8.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	23.10-1.1.9.1	23.10	更新
107	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8	mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel8u8.x86_64.rpm	MLX MCX631102 10/25GbE 2p SFP28 Adptr	23.10-1.1.9.1	23.10	更新

	(x86_64)					
108	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8 (x86_64)	mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel8u8.x86_64.rpm	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	23.10-1.1.9.1	23.10	更新
109	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8 (x86_64)	mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel8u8.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	23.10-1.1.9.1	23.10	更新
110	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8 (x86_64)	mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel8u8.x86_64.rpm	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	23.10-1.1.9.1	23.10	更新
111	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8 (x86_64)	mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel8u8.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	23.10-1.1.9.1	23.10	更新
112	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)	kmod-mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel9u2.x86_64.rpm	MLX MCX631102 10/25GbE 2p SFP28 Adptr	23.10-1.1.9.1	23.10	更新
113	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)	kmod-mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel9u2.x86_64.rpm	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	23.10-1.1.9.1	23.10	更新
114	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)	kmod-mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel9u2.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	23.10-1.1.9.1	23.10	更新
115	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)	kmod-mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel9u2.x86_64.rpm	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	23.10-1.1.9.1	23.10	更新
116	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)	kmod-mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel9u2.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	23.10-1.1.9.1	23.10	更新
117	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)	mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel9u2.x86_64.rpm	MLX MCX631102 10/25GbE 2p SFP28 Adptr	23.10-1.1.9.1	23.10	更新
118	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)	mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel9u2.x86_64.rpm	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	23.10-1.1.9.1	23.10	更新

	(x86_64)					
119	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)	mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel9u2.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	23.10-1.1.9.1	23.10	更新
120	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)	mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel9u2.x86_64.rpm	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	23.10-1.1.9.1	23.10	更新
121	HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)	mlnx-ofa_kernel-23.10-OFED.23.10.1.1.9.1.rhel9u2.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	23.10-1.1.9.1	23.10	更新
122	Intel i350 Driver for Windows Server 2019	cp056785.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	12.18.16.0	12.18.16.0	更新
123	Intel i350 Driver for Windows Server 2019	cp056785.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	12.18.16.0	12.18.16.0	更新
124	Intel i350 Driver for Windows Server 2022	cp056786.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	13.0.16.0	13.0.16.0	更新
125	Intel i350 Driver for Windows Server 2022	cp056786.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	13.0.16.0	13.0.16.0	更新
126	Intel ice Drivers for Red Hat Enterprise Linux 8	kmod-ice-1.12.6-1.rhel8u8.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.12.6-1 (C)	1.12.6-1.rhel8u8	更新
127	Intel ice Drivers for Red Hat Enterprise Linux 8	kmod-ice-1.12.6-1.rhel8u8.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.12.6-1 (C)	1.12.6-1.rhel8u8	更新
128	Intel ice Drivers for Red Hat Enterprise Linux 8	kmod-ice-1.12.6-1.rhel8u8.x86_64.rpm	Intel E810-XXVDA2 adapter	1.12.6-1 (C)	1.12.6-1.rhel8u8	更新
129	Intel ice Drivers for Red Hat Enterprise Linux 8	kmod-ice-1.12.6-1.rhel8u8.x86_64.rpm	Intel E810-XXVDA2 OCP3 adapter	1.12.6-1 (C)	1.12.6-1.rhel8u8	更新
130	Intel ice Drivers for Red Hat Enterprise Linux 8	kmod-ice-1.12.6-1.rhel8u8.x86_64.rpm	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.12.6-1 (C)	1.12.6-1.rhel8u8	更新
131	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.12.6-1.rhel9u2.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.12.6-1 (B)	1.12.6-1.rhel9u2	更新
132	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.12.6-1.rhel9u2.x86_64.rpm	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.12.6-1 (B)	1.12.6-1.rhel9u2	更新
133	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.12.6-1.rhel9u2.x86_64.rpm	Intel E810-XXVDA2 adapter	1.12.6-1 (B)	1.12.6-1.rhel9u2	更新
134	Intel ice Drivers for Red Hat	kmod-ice-1.12.6-	Intel E810-	1.12.6-1 (B)	1.12.6-	更新

	Enterprise Linux 9	1.rhel9u2.x86_64.rpm	XXVDA2 OCP3 adapter		1.rhel9u2	
135	Intel ice Drivers for Red Hat Enterprise Linux 9	kmod-ice-1.12.6-1.rhel9u2.x86_64.rpm	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.12.6-1 (B)	1.12.6-1.rhel9u2	更新
136	Intel ica Driver for Microsoft Windows Server 2022	cp058391.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.13.242.0	1.13.242.0	更新
137	Intel ica Driver for Microsoft Windows Server 2022	cp058391.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.13.242.0	1.13.242.0	更新
138	Intel ica Driver for Microsoft Windows Server 2022	cp058391.exe	Intel E810-XXVDA2 adapter	1.13.242.0	1.13.242.0	更新
139	Intel ica Driver for Microsoft Windows Server 2022	cp058391.exe	Intel E810-XXVDA2 OCP3 adapter	1.13.242.0	1.13.242.0	更新
140	Intel ica Driver for Microsoft Windows Server 2022	cp058391.exe	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.13.242.0	1.13.242.0	更新
141	Intel ica Driver for Windows Server 2019	cp058390.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	1.13.242.0	1.13.242.0	更新
142	Intel ica Driver for Windows Server 2019	cp058390.exe	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	1.13.242.0	1.13.242.0	更新
143	Intel ica Driver for Windows Server 2019	cp058390.exe	Intel E810-XXVDA2 adapter	1.13.242.0	1.13.242.0	更新
144	Intel ica Driver for Windows Server 2019	cp058390.exe	Intel E810-XXVDA2 OCP3 adapter	1.13.242.0	1.13.242.0	更新
145	Intel ica Driver for Windows Server 2019	cp058390.exe	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	1.13.242.0	1.13.242.0	更新
146	Intel icen Driver for VMware vSphere 7.0	cp058386.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	2023.10.00	1.12.5.0-10EM.702.0.0.17630552	更新
147	Intel icen Driver for VMware vSphere 7.0	cp058386.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	2023.10.00	1.12.5.0-10EM.702.0.0.17630552	更新
148	Intel icen Driver for VMware vSphere 7.0	cp058386.zip	Intel E810-XXVDA2 adapter	2023.10.00	1.12.5.0-10EM.702.0.0.17630552	更新
149	Intel icen Driver for VMware vSphere 7.0	cp058386.zip	Intel E810-XXVDA2 OCP3 adapter	2023.10.00	1.12.5.0-10EM.702.0.0.17630552	更新
150	Intel icen Driver for VMware vSphere 7.0	cp058386.zip	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	2023.10.00	1.12.5.0-10EM.702.0.0.17630552	更新
151	Intel icen Driver for VMware	cp058387.zip	Intel E810-CQDA2	2023.10.00	1.12.5.0-	更新

	vSphere 8.0		Ethernet 100Gb 2-port QSFP28 Adapter for HPE		1OEM.800.1.0 .20613240	
152	Intel icen Driver for VMware vSphere 8.0	cp058387.zip	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	2023.10.00	1.12.5.0-1OEM.800.1.0 .20613240	更新
153	Intel icen Driver for VMware vSphere 8.0	cp058387.zip	Intel E810-XXVDA2 adapter	2023.10.00	1.12.5.0-1OEM.800.1.0 .20613240	更新
154	Intel icen Driver for VMware vSphere 8.0	cp058387.zip	Intel E810-XXVDA2 OCP3 adapter	2023.10.00	1.12.5.0-1OEM.800.1.0 .20613240	更新
155	Intel icen Driver for VMware vSphere 8.0	cp058387.zip	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	2023.10.00	1.12.5.0-1OEM.800.1.0 .20613240	更新
156	Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3	cp056896.zip	MLX MCX631102 10/25GbE 2p SFP28 Adptr	2022.11.09 (A)	4.22.73.1004-1OEM.703.0.0 .18644231	
157	Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3	cp056896.zip	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	2022.11.09 (A)	4.22.73.1004-1OEM.703.0.0 .18644231	
158	Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3	cp056896.zip	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	2022.11.09 (A)	4.22.73.1004-1OEM.703.0.0 .18644231	
159	Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3	cp056896.zip	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	2022.11.09 (A)	4.22.73.1004-1OEM.703.0.0 .18644231	
160	Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 "nmlx5_en" Driver Component for VMware ESXi 7.0 Update 3	cp056896.zip	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	2022.11.09 (A)	4.22.73.1004-1OEM.703.0.0 .18644231	
161	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019	cp059090.exe	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	23.10.26252 .0	23.10.26252.0	更新
162	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019	cp059090.exe	MLX MCX631102 10/25GbE 2p SFP28 Adptr	23.10.26252 .0	23.10.26252.0	更新
163	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2019	cp059090.exe	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	23.10.26252 .0	23.10.26252.0	更新
164	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022	cp059091.exe	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	23.10.26252 .0	23.10.26252.0	更新
165	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022	cp059091.exe	MLX MCX631102 10/25GbE 2p SFP28 Adptr	23.10.26252 .0	23.10.26252.0	更新
166	Mellanox CX5 and CX6DX Driver for Microsoft Windows Server 2022	cp059091.exe	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	23.10.26252 .0	23.10.26252.0	更新

6.2.5 Driver - Security

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
167	Intel QuickAssist Technology driver for Microsoft Windows	cp058655.exe	-	2.1.0.30	2.1.0.30	更新

6.2.6 Driver - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
168	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8	kmod-megaraid_sas-07.726.03.00_rhel8u8-1.x86_64.rpm	HPE_MR416i-o_Gen11	07.726.03.00	07.726.03.00_rhel8u8-1	更新
169	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8	kmod-megaraid_sas-07.726.03.00_rhel8u8-1.x86_64.rpm	HPE_MR416i-p_Gen11	07.726.03.00	07.726.03.00_rhel8u8-1	更新
170	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8	kmod-megaraid_sas-07.726.03.00_rhel8u8-1.x86_64.rpm	HPE_MR216i-o_Gen11	07.726.03.00	07.726.03.00_rhel8u8-1	更新
171	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8	kmod-megaraid_sas-07.726.03.00_rhel8u8-1.x86_64.rpm	HPE_MR408i-o_Gen11	07.726.03.00	07.726.03.00_rhel8u8-1	更新
172	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 8	kmod-megaraid_sas-07.726.03.00_rhel8u8-1.x86_64.rpm	HPE_MR216i-p_Gen11	07.726.03.00	07.726.03.00_rhel8u8-1	更新
173	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.726.03.00_rhel9u2-1.x86_64.rpm	HPE_MR416i-o_Gen11	07.726.03.00	07.726.03.00_rhel9u2-1	更新
174	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.726.03.00_rhel9u2-1.x86_64.rpm	HPE_MR416i-p_Gen11	07.726.03.00	07.726.03.00_rhel9u2-1	更新
175	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller	kmod-megaraid_sas-07.726.03.00_rhel9u2-1.x86_64.rpm	HPE_MR216i-o_Gen11	07.726.03.00	07.726.03.00_rhel9u2-1	更新

	Driver for 64-bit Red Hat Enterprise Linux 9					
176	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.726.03.00_rhel9u2-1.x86_64.rpm	HPE_MR408i-o_Gen11	07.726.03.00	07.726.03.00_rhel9u2-1	更新
177	HPE MR416i-p, MR216i-p, MR416i-a, MR216i-a Gen10 plus and MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen11 controller Driver for 64-bit Red Hat Enterprise Linux 9	kmod-megaraid_sas-07.726.03.00_rhel9u2-1.x86_64.rpm	HPE_MR216i-p_Gen11	07.726.03.00	07.726.03.00_rhel9u2-1	更新
178	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0	cp057482.zip	HPE_MR416i-o_Gen11	2023.12.01	7.726.02.00-1OEM.700.1.0.15843807	更新
179	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0	cp057482.zip	HPE_MR416i-p_Gen11	2023.12.01	7.726.02.00-1OEM.700.1.0.15843807	更新
180	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0	cp057482.zip	HPE_MR216i-o_Gen11	2023.12.01	7.726.02.00-1OEM.700.1.0.15843807	更新
181	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0	cp057482.zip	HPE_MR408i-o_Gen11	2023.12.01	7.726.02.00-1OEM.700.1.0.15843807	更新
182	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 7.0	cp057482.zip	HPE_MR216i-p_Gen11	2023.12.01	7.726.02.00-1OEM.700.1.0.15843807	更新
183	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0	cp057484.zip	HPE_MR416i-o_Gen11	2023.12.01	7.726.02.00-1OEM.800.1.0.20613240	更新
184	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0	cp057484.zip	HPE_MR416i-p_Gen11	2023.12.01	7.726.02.00-1OEM.800.1.0.20613240	更新
185	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0	cp057484.zip	HPE_MR216i-o_Gen11	2023.12.01	7.726.02.00-1OEM.800.1.0.20613240	更新
186	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0	cp057484.zip	HPE_MR408i-o_Gen11	2023.12.01	7.726.02.00-1OEM.800.1.0.20613240	更新
187	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller (64-bit) Driver for vSphere 8.0	cp057484.zip	HPE_MR216i-p_Gen11	2023.12.01	7.726.02.00-1OEM.800.1.0.20613240	更新

188	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition	cp057467.exe	HPE_MR416i-o_Gen11	7.726.1.0	7.726.1.0	更新
189	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition	cp057467.exe	HPE_MR416i-p_Gen11	7.726.1.0	7.726.1.0	更新
190	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition	cp057467.exe	HPE_MR216i-o_Gen11	7.726.1.0	7.726.1.0	更新
191	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition	cp057467.exe	HPE_MR408i-o_Gen11	7.726.1.0	7.726.1.0	更新
192	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller Driver for Microsoft Windows 2019 edition	cp057467.exe	HPE_MR216i-p_Gen11	7.726.1.0	7.726.1.0	更新
193	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition	cp057468.exe	HPE_MR416i-o_Gen11	7.726.1.0	7.726.1.0	更新
194	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition	cp057468.exe	HPE_MR416i-p_Gen11	7.726.1.0	7.726.1.0	更新
195	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition	cp057468.exe	HPE_MR216i-o_Gen11	7.726.1.0	7.726.1.0	更新
196	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition	cp057468.exe	HPE_MR408i-o_Gen11	7.726.1.0	7.726.1.0	更新
197	HPE MR416i-p, MR416i-o, MR216i-o, MR408i-o, MR216i-p Gen10P and Gen11 controller driver for Microsoft Windows 2022 edition	cp057468.exe	HPE_MR216i-p_Gen11	7.726.1.0	7.726.1.0	更新
198	HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 7.0 (Driver Component).	cp058433.zip	HPE Smart Array E208e-p SR Gen10 Controller	2024.04.01	70.4600.0.115 - 10EM.700.1.0 .15843807	更新
199	HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 7.0 (Driver Component).	cp058433.zip	HPE SR932i-p Gen11	2024.04.01	70.4600.0.115 - 10EM.700.1.0 .15843807	更新
200	HPE ProLiant Gen10 Smart	cp058434.zip	HPE Smart Array	2024.04.01	80.4600.0.115	更新

	Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).		E208e-p SR Gen10 Controller		- 1OEM.800.1.0 .20613240	
201	HPE ProLiant Gen10 Smart Array and Gen10 Plus and Gen11 Smart RAID Controller Driver for VMware vSphere 8.0 (Driver Component).	cp058434.zip	HPE SR932i-p Gen11	2024.04.01	80.4600.0.115 - 1OEM.800.1.0 .20613240	更新
202	HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.26-030.rhel8u8.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	2.1.26-030	2.1.26-030.rhel8u8	更新
203	HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.26-030.rhel8u8.x86_64.rpm	HPE SR932i-p Gen11	2.1.26-030	2.1.26-030.rhel8u8	更新
204	HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 9 (64-bit)	kmod-smartpqi-2.1.26-030.rhel9u2.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	2.1.26-030	2.1.26-030.rhel9u2	更新
205	HPE ProLiant Gen10, Gen10Plus and Gen11 Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 9 (64-bit)	kmod-smartpqi-2.1.26-030.rhel9u2.x86_64.rpm	HPE SR932i-p Gen11	2.1.26-030	2.1.26-030.rhel9u2	更新
206	HPE Smart Array Gen10, Gen10Plus and Gen11 Controller Driver for Windows Server 2016, Windows Server 2019 and Windows Server 2022	cp058432.exe	HPE Smart Array E208e-p SR Gen10 Controller	1010.84.0.1012	1010.84.0.1012	更新
207	HPE Smart Array Gen10, Gen10Plus and Gen11 Controller Driver for Windows Server 2016, Windows Server 2019 and Windows Server 2022	cp058432.exe	HPE SR932i-p Gen11	1010.84.0.1012	1010.84.0.1012	更新

6.2.7 Driver - Storage Fibre Channel and Fibre Channel over Ethernet

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
208	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp054940.exe	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	14.2.537.0	14.2.537.0	更新
209	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp054940.exe	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.2.537.0	14.2.537.0	更新
210	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp054940.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.2.537.0	14.2.537.0	更新
211	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp054940.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.2.537.0	14.2.537.0	更新

212	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp054941.exe	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	14.2.537.0	14.2.537.0	更新
213	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp054941.exe	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.2.537.0	14.2.537.0	更新
214	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp054941.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.2.537.0	14.2.537.0	更新
215	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2022	cp054941.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.2.537.0	14.2.537.0	更新
216	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019	cp058106.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.9.21	9.4.9.21	更新
217	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019	cp058106.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.9.21	9.4.9.21	更新
218	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022	cp058107.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.9.21	9.4.9.21	更新
219	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2022	cp058107.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.9.21	9.4.9.21	更新
220	Red Hat Enterprise Linux 8 Update 8 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters	kmod-elx-lpfc-14.2.589.21-1.rhel8u8.x86_64.rpm	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	14.2.589.21	14.2.589.21-1.rhel8u8	新規追加
221	Red Hat Enterprise Linux 8 Update 8 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters	kmod-elx-lpfc-14.2.589.21-1.rhel8u8.x86_64.rpm	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.2.589.21	14.2.589.21-1.rhel8u8	新規追加
222	Red Hat Enterprise Linux 8 Update 8 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters	kmod-elx-lpfc-14.2.589.21-1.rhel8u8.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.2.589.21	14.2.589.21-1.rhel8u8	新規追加
223	Red Hat Enterprise Linux 8 Update 8 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters	kmod-elx-lpfc-14.2.589.21-1.rhel8u8.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.2.589.21	14.2.589.21-1.rhel8u8	新規追加
224	Red Hat Enterprise Linux 8 Update 8 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapter	kmod-qlgc-qla2xxx-10.02.11.00_k1-1.rhel8u8.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	10.02.11.00-k1	10.02.11.00_k1-1.rhel8u8	更新
225	Red Hat Enterprise Linux 8 Update 8 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapter	kmod-qlgc-qla2xxx-10.02.11.00_k1-1.rhel8u8.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	10.02.11.00-k1	10.02.11.00_k1-1.rhel8u8	更新
226	Red Hat Enterprise Linux 9 Update 2 Server Fibre	kmod-elx-lpfc-14.2.589.21-	HPE SN1700E 64Gb Dual Port	14.2.589.21	14.2.589.21-1.rhel9u2	更新

	Channel Driver Kit for HPE Emulex Host Bus Adapters	1.rhel9u2.x86_64.rpm	Fibre Channel Host Bus Adapter			
227	Red Hat Enterprise Linux 9 Update 2 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters	kmod-elx-lpfc-14.2.589.21-1.rhel9u2.x86_64.rpm	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.2.589.21	14.2.589.21-1.rhel9u2	更新
228	Red Hat Enterprise Linux 9 Update 2 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters	kmod-elx-lpfc-14.2.589.21-1.rhel9u2.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.2.589.21	14.2.589.21-1.rhel9u2	更新
229	Red Hat Enterprise Linux 9 Update 2 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters	kmod-elx-lpfc-14.2.589.21-1.rhel9u2.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.2.589.21	14.2.589.21-1.rhel9u2	更新
230	Red Hat Enterprise Linux 9 Update 2 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.11.00_k1-1.rhel9u2.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	10.02.11.00-k1	10.02.11.00_k1-1.rhel9u2	更新
231	Red Hat Enterprise Linux 9 Update 2 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.11.00_k1-1.rhel9u2.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	10.02.11.00-k1	10.02.11.00_k1-1.rhel9u2	更新

6.2.8 Driver - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
232	Broadcom PCIe Switch Management Driver for Microsoft Windows Server 2019	cp060564.exe	-	2.61.54.0 (B)	2.61.54.0 (B)	新規追加
233	iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2019	cp059558.exe	-	4.7.1.0 (D)	4.7.1.0 (D)	更新
234	iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2022	cp059560.exe	-	4.7.1.0 (D)	4.7.1.0 (D)	更新
235	iLO 6 Channel Interface Driver for Microsoft Windows Server 2019	cp059557.exe	-	4.7.1.0 (D)	4.7.1.0 (D)	更新
236	iLO 6 Channel Interface Driver for Microsoft Windows Server 2022	cp059559.exe	-	4.7.1.0 (D)	4.7.1.0 (D)	更新

6.2.9 Driver - Video

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
237	Matrox G200eH3 Video Controller Driver for Microsoft Windows Server 2019 and 2022	cp060800.exe	-	9.15.1.248 (C)	9.15.1.248 (C)	更新

6.2.10 Firmware - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
238	Language Pack - Japanese	cp060496.exe	Japanese Language Pack 6	1.57	1.57.03	更新
239	Language Pack - Japanese	firmware-ilo6-lpk-jari11-1.57-1.1.x86_64.rpm	Japanese Language Pack 6	1.57	1.57.03	更新
240	Online ROM Flash Component for Linux - iLO 6	firmware-ilo6-1.58-1.1.x86_64.rpm	iLO 6	1.58	1.58	更新
241	Online ROM Flash	cp060361.exe	iLO 6	1.58	1.58	更新

	Component for Windows x64 - iLO 6					
242	Online ROM Flash Firmware Package - iLO 6	ilo6_158.fwpkg	iLO 6	1.58	1.58	更新

6.2.11 Firmware – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
243	Broadcom Firmware Package for BCM5741x adapters	bcm228.1.111.0.pup.fw pkg	BCM 57412 10GbE 2p SFP+ Adptr	228.1.111.0	228.1.111.0	更新
244	Broadcom Firmware Package for BCM5741x adapters	bcm228.1.111.0.pup.fw pkg	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	228.1.111.0	228.1.111.0	更新
245	Broadcom Firmware Package for BCM5741x adapters	bcm228.1.111.0.pup.fw pkg	BCM 57414 10/25GbE 2p SFP28 Adptr	228.1.111.0	228.1.111.0	更新
246	Broadcom Firmware Package for BCM5741x adapters	bcm228.1.111.0.pup.fw pkg	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	228.1.111.0	228.1.111.0	更新
247	Broadcom Firmware Package for BCM5741x adapters	bcm228.1.111.0.pup.fw pkg	BCM 57416 10GbE 2p BASE-T Adptr	228.1.111.0	228.1.111.0	更新
248	Broadcom Firmware Package for BCM5741x adapters	bcm228.1.111.0.pup.fw pkg	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	228.1.111.0	228.1.111.0	更新
249	Broadcom Firmware Package for BCM5750x adapters	bcm228.1.111.0_Thor.pup.fw pkg	Broadcom NetXtreme-E BCM5750x adapters	228.1.111.0	228.1.111	更新
250	Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-bcm-open-2.36.0-1.1.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	2.36.0	20.28.41	更新
251	Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-bcm-open-2.36.0-1.1.x86_64.rpm	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	2.36.0	20.28.41	更新
252	Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-bcm-open-2.36.0-1.1.x86_64.rpm	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	2.36.0	20.28.41	更新
253	Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP059043.zip	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	1.37.0	20.28.41	更新
254	Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP059043.zip	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	1.37.0	20.28.41	更新
255	Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP059043.zip	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	1.37.0	20.28.41	更新
256	Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp059044.exe	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T Adapter for HPE	5.4.0.0	20.28.41	更新

257	Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp059044.exe	Broadcom BCM5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE	5.4.0.0	20.28.41	更新
258	Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp059044.exe	Broadcom BCM5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE	5.4.0.0	20.28.41	更新
259	Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter	HPE_E810_CQDA2_4p30_PLDMoMCTP_8001AF29.fwpkg	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 Adapter for HPE	4.30	4.30	更新
260	Intel Firmware Package For E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter	HPE_E810_CQDA2_OCP_4p30_NCSiwPLDMoMCTP_8001AF24.fwpkg	Intel E810-CQDA2 Ethernet 100Gb 2-port QSFP28 OCP3 Adapter for HPE	4.30	4.30	更新
261	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter	HPE_E810_XXVDA2_SD_4p30_PLDMoMCTP_8001AF27.fwpkg	Intel E810-XXVDA2 adapter	4.30	4.30	更新
262	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter	HPE_E810_XXVDA2_SD_OCP_4p30_NCSiwPLDMoMCTP_8001AF23.fw pkg	Intel E810-XXVDA2 OCP3 adapter	4.30	4.30	更新
263	Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter	HPE_E810_XXVDA4_FH_4p30_PLDMoMCTP_8001AF35.fwpkg	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	4.30	4.30	更新
264	Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-is-intel-1.29.0-2.1.x86_64.rpm	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	1.29.0 (B)	1.3429.0	更新
265	Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-is-intel-1.29.0-2.1.x86_64.rpm	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	1.29.0 (B)	1.3429.0	更新
266	Intel Online Firmware Upgrade Utility for VMware	CP058408.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	3.22.0	1.3429.0	更新
267	Intel Online Firmware Upgrade Utility for VMware	CP058408.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	3.22.0	1.3429.0	更新
268	Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp058409.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	5.3.6.0	1.3429.0	更新
269	Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp058409.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	5.3.6.0	1.3429.0	更新
270	Mellanox Firmware Package (FWPKG) - Mellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	26_39_1002-MCX631102AS-ADA_Ax.pldm.fwpkg	MLX MCX631102 10/25GbE 2p SFP28 Adptr	26.39.1002	26.39.1002	更新
271	Mellanox Firmware Package (FWPKG) - Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	26_39_1002-MCX631432AS-ADA_Ax.pldm.fwpkg	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	26.39.1002	26.39.1002	更新

272	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_3006-MCX515A-CCA_HPE_Ax.pldm.fw pkg	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	16.35.3006 (A)	16.35.3006	
273	Mellanox Firmware Package (FWPKG) for HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16 MCX653106A-ECAT Adapter : HPE part numbers P23666-B21 and P23666-H21	20_40_1000-MCX653106A-ECA_HPE_Ax.pldm.fw pkg	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	20.40.1000	20.40.1000	更新
274	Mellanox Firmware Package (FWPKG) for Mellanox MCX623106AS-CDAT Ethernet 100Gb 2-port QSFP56 Adapter for HPE	22_39_1002-MCX623106AS-CDA_Ax.pldm.fw pkg	HPE Ethernet 100Gb 2-port QSFP56 MCX623106AS-CDAT Adapter	22.39.1002	22.39.1002	更新
275	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_40_1000-MCX75310AAS-NEAT_HPE_Ax.pldm.fw pkg	HPE IB NDR 1p OSFP MCX75310AAS Adptr	28.40.1000	28.40.1000	更新

6.2.12 Firmware - PCIe NVMe Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
276	Online NVMe SSD Flash Component for Linux (x64) - EO000400KYDKV and EO000800KYDLA Drives	firmware-hdd-6758a46eb7-HPK4-2.1.x86_64.rpm	EO000400KYDKV	HPK4 (B)	HPK4	
277	Online NVMe SSD Flash Component for Linux (x64) - EO000400KYDKV and EO000800KYDLA Drives	firmware-hdd-6758a46eb7-HPK4-2.1.x86_64.rpm	EO000800KYDLA	HPK4 (B)	HPK4	
278	Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	firmware-hdd-a27c95663d-HPK5-1.1.x86_64.rpm	VO001920KYDMT	HPK5	HPK5	更新
279	Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	firmware-hdd-a27c95663d-HPK5-1.1.x86_64.rpm	VO003840KYDMV	HPK5	HPK5	更新
280	Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	firmware-hdd-a27c95663d-HPK5-1.1.x86_64.rpm	MO001600KYDMU	HPK5	HPK5	更新
281	Online NVMe SSD Flash Component for Linux (x64) -	firmware-hdd-a27c95663d-HPK5-	MO003200KYDNC	HPK5	HPK5	更新

	VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	1.1.x86_64.rpm				
282	Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	firmware-hdd- a27c95663d-HPK5- 1.1.x86_64.rpm	MO006400KYDND	HPK5	HPK5	更新
283	Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	firmware-hdd- a27c95663d-HPK5- 1.1.x86_64.rpm	VO007680KYDNA	HPK5	HPK5	更新
284	Online NVMe SSD Flash Component for Linux (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	firmware-hdd- a27c95663d-HPK5- 1.1.x86_64.rpm	VO015360KYDNB	HPK5	HPK5	更新
285	Online NVMe SSD Flash Component for VMware ESXi - EO000400KYDKV and EO000800KYDLA Drives	CP059258.zip	EO000400KYDKV	HPK4 (B)	HPK4	
286	Online NVMe SSD Flash Component for VMware ESXi - EO000400KYDKV and EO000800KYDLA Drives	CP059258.zip	EO000800KYDLA	HPK4 (B)	HPK4	
287	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP059787.zip	VO001920KYDMT	HPK5	HPK5	更新
288	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP059787.zip	VO003840KYDMV	HPK5	HPK5	更新
289	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC,	CP059787.zip	MO001600KYDM U	HPK5	HPK5	更新

	MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives					
290	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP059787.zip	MO003200KYDNC	HPK5	HPK5	更新
291	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP059787.zip	MO006400KYDND	HPK5	HPK5	更新
292	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP059787.zip	VO007680KYDNA	HPK5	HPK5	更新
293	Online NVMe SSD Flash Component for VMware ESXi - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	CP059787.zip	VO015360KYDNB	HPK5	HPK5	更新
294	Online NVMe SSD Flash Component for Windows (x64) - EO000400KYDKV and EO000800KYDLA Drives	cp059259.exe	EO000400KYDKV	HPK4 (B)	HPK4	
295	Online NVMe SSD Flash Component for Windows (x64) - EO000400KYDKV and EO000800KYDLA Drives	cp059259.exe	EO000800KYDLA	HPK4 (B)	HPK4	
296	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp059788.exe	VO001920KYDMT	HPK5	HPK5	更新
297	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp059788.exe	VO003840KYDMV	HPK5	HPK5	更新
298	Online NVMe SSD Flash	cp059788.exe	MO001600KYDM	HPK5	HPK5	更新

	Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives		U			
299	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp059788.exe	MO003200KYDNC	HPK5	HPK5	更新
300	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp059788.exe	MO006400KYDND	HPK5	HPK5	更新
301	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp059788.exe	VO007680KYDNA	HPK5	HPK5	更新
302	Online NVMe SSD Flash Component for Windows (x64) - VO001920KYDMT, VO003840KYDMV, MO001600KYDMU, MO003200KYDNC, MO006400KYDND, VO007680KYDNA and VO015360KYDNB Drives	cp059788.exe	VO015360KYDNB	HPK5	HPK5	更新
303	Universal Firmware Package for Drives - MO001600KZYWU, MO003200KZYXB, MO006400KZYXC, VO001920KZYWT, VO003840KZYWV and VO007680KZYXA	Solidigm_P5x20_4IAAH PK5.fwpkg	Solidigm-P5x20-NVMe	HPK5	HPK5	新規追加
304	Universal Firmware Package for Drives - MV003200LXUJK, MV006400LXUJL, VV003840LXUJE, VV007680LXUJF and VV015360LXUJH	Kioxia_CM7_KACM7ALE HPK5.fwpkg	Kioxia-CM7-NVMe	HPK5	HPK5	新規追加
305	Universal Firmware Package for Drives - VO000960KXNXD, VO001920KXNZQ, VO003840KXNZR, VO007680KXNZT, MO000800KXNXH, MO001600KXNZV, MO003200KXPAA and	Micron_7450_M7450AL LHPS1.fwpkg	Micron-7450-NVMe	HPS1	HPS1	

	MO006400KXPAB					
306	Universal Firmware Package for Drives - VR000480KXNXE,VR000960KXNZU and VS001920KXNXF	Micron_7450_M7450AL-LHPK2.fwpkg	Micron-7450-NVMe	HPK2	HPK2	
307	Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV	Kioxia_CD7_KACD7ALS-HPK6.fwpkg	Kioxia-CD7-NVMe	HPK6	HPK6	更新
308	Universal Firmware Package for Drives - VV003840KXNTH, VV007680KXNTN and VV015360KXNTP	Samsung_PM1743_GP-M1743SHPK5.fwpkg	Samsung-PM1743-NVMe	HPK5	HPK5	

6.2.13 Firmware - SAS Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
309	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives	firmware-hdd-aa9e289524-HPD5-7.1.x86_64.rpm	EG000600JWEBH	HPD5 (G)	HPD5	
310	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWEBH and EG000300JWEBF Drives	firmware-hdd-aa9e289524-HPD5-7.1.x86_64.rpm	EG000300JWEBF	HPD5 (G)	HPD5	
311	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	firmware-hdd-bdfb8e99d9-HPD8-2.1.x86_64.rpm	EG000600JWJNP	HPD8 (B)	HPD8	
312	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	firmware-hdd-bdfb8e99d9-HPD8-2.1.x86_64.rpm	EG001200JWJNQ	HPD8 (B)	HPD8	
313	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	firmware-hdd-bdfb8e99d9-HPD8-2.1.x86_64.rpm	EG001200MXJQU	HPD8 (B)	HPD8	
314	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	firmware-hdd-bdfb8e99d9-HPD8-2.1.x86_64.rpm	EG000600JXLVV	HPD8 (B)	HPD8	
315	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	firmware-hdd-bdfb8e99d9-HPD8-2.1.x86_64.rpm	EG001200JXLWA	HPD8 (B)	HPD8	
316	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB,	firmware-hdd-b1c9eaf74c-HPDA-3.1.x86_64.rpm	EG001800JWJNR	HPDA (C)	HPDA	

	EG002400JXLWC and EG002400MXJQT Drives					
317	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	firmware-hdd-b1c9eaf74c-HPDA-3.1.x86_64.rpm	EG002400JWJNT	HPDA (C)	HPDA	
318	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	firmware-hdd-b1c9eaf74c-HPDA-3.1.x86_64.rpm	EG002400MXJQT	HPDA (C)	HPDA	
319	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	firmware-hdd-b1c9eaf74c-HPDA-3.1.x86_64.rpm	EG001800JXLWB	HPDA (C)	HPDA	
320	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	firmware-hdd-b1c9eaf74c-HPDA-3.1.x86_64.rpm	EG002400JXLWC	HPDA (C)	HPDA	
321	Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD9-1.1.x86_64.rpm	EH000900JWCPN	HPD9	HPD9	
322	Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD9-1.1.x86_64.rpm	EH000600JWCPL	HPD9	HPD9	
323	Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD9-1.1.x86_64.rpm	EH000300JWCPK	HPD9	HPD9	
324	Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD9-1.1.x86_64.rpm	EH000900JXLVU	HPD9	HPD9	
325	Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD9-1.1.x86_64.rpm	EH000300JXLVR	HPD9	HPD9	
326	Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD9-1.1.x86_64.rpm	EH000600JXLVT	HPD9	HPD9	
327	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP,	firmware-hdd-42aff4675b-HPD3-4.1.x86_64.rpm	EO000400PXDBQ	HPD3 (D)	HPD3	

	MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives					
328	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDDBP, MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	firmware-hdd- 42aff4675b-HPD3- 4.1.x86_64.rpm	EO000800PXDCK	HPD3 (D)	HPD3	
329	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDDBP, MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	firmware-hdd- 42aff4675b-HPD3- 4.1.x86_64.rpm	EO001600PXDCH	HPD3 (D)	HPD3	
330	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDDBP, MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	firmware-hdd- 42aff4675b-HPD3- 4.1.x86_64.rpm	MO000800PXDDBP	HPD3 (D)	HPD3	
331	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDDBP, MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	firmware-hdd- 42aff4675b-HPD3- 4.1.x86_64.rpm	MO001600PXDCC	HPD3 (D)	HPD3	
332	Online HDD/SSD Flash Component for Linux (x64) -	firmware-hdd- 42aff4675b-HPD3-	MO003200PXDCC	HPD3 (D)	HPD3	

	EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives	4.1.x86_64.rpm				
333	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives	firmware-hdd- 42aff4675b-HPD3- 4.1.x86_64.rpm	MO006400PXDCE	HPD3 (D)	HPD3	
334	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives	firmware-hdd- 42aff4675b-HPD3- 4.1.x86_64.rpm	VO000960PXDBN	HPD3 (D)	HPD3	
335	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives	firmware-hdd- 42aff4675b-HPD3- 4.1.x86_64.rpm	VO001920PXDDBR	HPD3 (D)	HPD3	
336	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT,	firmware-hdd- 42aff4675b-HPD3- 4.1.x86_64.rpm	VO003840PXDDBT	HPD3 (D)	HPD3	

	VO007680PXDBU and VO015300PXDBV Drives					
337	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDC, MO003200PXDCC, MO006400PXDC, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	firmware-hdd-42aff4675b-HPD3-4.1.x86_64.rpm	VO007680PXDBU	HPD3 (D)	HPD3	
338	Online HDD/SSD Flash Component for Linux (x64) - EO000400PXDBQ, EO000800PXDCCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDC, MO003200PXDCC, MO006400PXDC, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	firmware-hdd-42aff4675b-HPD3-4.1.x86_64.rpm	VO015300PXDBV	HPD3 (D)	HPD3	
339	Online HDD/SSD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives	firmware-hdd-d7af557f47-HPD4-7.1.x86_64.rpm	MB002000JWFVN	HPD4 (G)	HPD4	
340	Online HDD/SSD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives	firmware-hdd-d7af557f47-HPD4-7.1.x86_64.rpm	MB004000JWFVP	HPD4 (G)	HPD4	
341	Online HDD/SSD Flash Component for Linux (x64) - MB002000JYDNE and MB004000JYDPB Drives	firmware-hdd-d4be2aecbb-HPD2-4.1.x86_64.rpm	MB002000JYDNE	HPD2 (D)	HPD2	
342	Online HDD/SSD Flash Component for Linux (x64) - MB002000JYDNE and MB004000JYDPB Drives	firmware-hdd-d4be2aecbb-HPD2-4.1.x86_64.rpm	MB004000JYDPB	HPD2 (D)	HPD2	
343	Online HDD/SSD Flash Component for Linux (x64) - MB004000JWWQB and MB002000JWWQA Drives	firmware-hdd-adb3ab8147-HPD8-4.1.x86_64.rpm	MB004000JWWQ B	HPD8 (D)	HPD8	
344	Online HDD/SSD Flash Component for Linux (x64) - MB004000JWWQB and MB002000JWWQA Drives	firmware-hdd-adb3ab8147-HPD8-4.1.x86_64.rpm	MB002000JWWQ A	HPD8 (D)	HPD8	
345	Online HDD/SSD Flash Component for Linux (x64) - MB006000JYDNF and MB008000JYDPC Drives	firmware-hdd-b04df66fe9-HPD2-4.1.x86_64.rpm	MB006000JYDNF	HPD2 (D)	HPD2	
346	Online HDD/SSD Flash Component for Linux (x64) - MB006000JYDNF and MB008000JYDPC Drives	firmware-hdd-b04df66fe9-HPD2-4.1.x86_64.rpm	MB008000JYDPC	HPD2 (D)	HPD2	
347	Online HDD/SSD Flash Component for Linux (x64) - MB008000JWWQP and MB006000JWWQN Drives	firmware-hdd-ae6b41e855-HPD8-4.1.x86_64.rpm	MB008000JWWQ P	HPD8 (D)	HPD8	

348	Online HDD/SSD Flash Component for Linux (x64) - MB008000JWWQP and MB006000JWWQN Drives	firmware-hdd-ae6b41e855-HPD8-4.1.x86_64.rpm	MB006000JWWQN	HPD8 (D)	HPD8	
349	Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	firmware-hdd-cf0b6cabe1-HPD4-3.1.x86_64.rpm	MB010000JWZHA	HPD4 (C)	HPD4	
350	Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	firmware-hdd-cf0b6cabe1-HPD4-3.1.x86_64.rpm	MB012000JWZHB	HPD4 (C)	HPD4	
351	Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	firmware-hdd-cf0b6cabe1-HPD4-3.1.x86_64.rpm	MB014000JWZHC	HPD4 (C)	HPD4	
352	Online HDD/SSD Flash Component for Linux (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	firmware-hdd-cf0b6cabe1-HPD4-3.1.x86_64.rpm	MB016000JWZHE	HPD4 (C)	HPD4	
353	Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	firmware-hdd-8173816d98-HPD3-1.1.x86_64.rpm	MB010000JYDKK	HPD3	HPD3	更新
354	Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	firmware-hdd-8173816d98-HPD3-1.1.x86_64.rpm	MB012000JYCJF	HPD3	HPD3	更新
355	Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	firmware-hdd-8173816d98-HPD3-1.1.x86_64.rpm	MB014000JYCJV	HPD3	HPD3	更新
356	Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	firmware-hdd-8173816d98-HPD3-1.1.x86_64.rpm	MB016000JYDKL	HPD3	HPD3	更新
357	Online HDD/SSD Flash Component for Linux (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	firmware-hdd-8173816d98-HPD3-1.1.x86_64.rpm	MB018000JYDKN	HPD3	HPD3	更新
358	Online HDD/SSD Flash Component for Linux (x64) - MB012000JZYVN,	firmware-hdd-87b796d9ae-HPD4-1.1.x86_64.rpm	MB012000JZYVN	HPD4	HPD4	更新

	MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives					
359	Online HDD/SSD Flash Component for Linux (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	firmware-hdd- 87b796d9ae-HPD4- 1.1.x86_64.rpm	MB014000JZYVP	HPD4	HPD4	更新
360	Online HDD/SSD Flash Component for Linux (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	firmware-hdd- 87b796d9ae-HPD4- 1.1.x86_64.rpm	MB016000JZYVQ	HPD4	HPD4	更新
361	Online HDD/SSD Flash Component for Linux (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	firmware-hdd- 87b796d9ae-HPD4- 1.1.x86_64.rpm	MB018000JYCLK	HPD4	HPD4	更新
362	Online HDD/SSD Flash Component for Linux (x64) - MB014000JXUCC Drive	firmware-hdd- 017797f12e-HPD4- 2.1.x86_64.rpm	MB014000JXUCC	HPD4 (B)	HPD4	新規追加
363	Online HDD/SSD Flash Component for Linux (x64) - MB016000JWXKH Drive	firmware-hdd- 8a0371a425-HPDA- 2.1.x86_64.rpm	MB016000JWXKH	HPDA (B)	HPDA	
364	Online HDD/SSD Flash Component for Linux (x64) - MB016000JXLBA and MB018000JXLAU Drives	firmware-hdd- d550523365-HPD3- 2.1.x86_64.rpm	MB016000JXLBA	HPD3 (B)	HPD3	更新
365	Online HDD/SSD Flash Component for Linux (x64) - MB016000JXLBA and MB018000JXLAU Drives	firmware-hdd- d550523365-HPD3- 2.1.x86_64.rpm	MB018000JXLAU	HPD3 (B)	HPD3	更新
366	Online HDD/SSD Flash Component for Linux (x64) - MB018000JXMTH and MB020000JXMTP Drives	firmware-hdd- 020fc874ad-HPD2- 1.1.x86_64.rpm	MB020000JXMTP	HPD2	HPD2	更新
367	Online HDD/SSD Flash Component for Linux (x64) - MB018000JXMTH and MB020000JXMTP Drives	firmware-hdd- 020fc874ad-HPD2- 1.1.x86_64.rpm	MB018000JXMTH	HPD2	HPD2	更新
368	Online HDD/SSD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives	firmware-hdd- b04257b77b-HPDA- 3.1.x86_64.rpm	MM1000JEFRB	HPDA (C)	HPDA	
369	Online HDD/SSD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives	firmware-hdd- b04257b77b-HPDA- 3.1.x86_64.rpm	MM2000JEFRC	HPDA (C)	HPDA	
370	Online HDD/SSD Flash Component for Linux (x64) - MM1000JFJTH Drive	firmware-hdd- fa46c607d6-HPD5- 3.1.x86_64.rpm	MM1000JFJTH	HPD5 (C)	HPD5	
371	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd- 8fafc9efb2-HPD8- 1.1.x86_64.rpm	VO000960RWUEV	HPD8	HPD8	更新
372	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV,	firmware-hdd- 8fafc9efb2-HPD8- 1.1.x86_64.rpm	VO001920RWUFA	HPD8	HPD8	更新

	VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives					
373	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd- 8fadc9efb2-HPD8- 1.1.x86_64.rpm	VO003840RWUFB	HPD8	HPD8	更新
374	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd- 8fadc9efb2-HPD8- 1.1.x86_64.rpm	VO007680RWUFC	HPD8	HPD8	更新
375	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd- 8fadc9efb2-HPD8- 1.1.x86_64.rpm	VO000960RWUFD	HPD8	HPD8	更新
376	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd- 8fadc9efb2-HPD8- 1.1.x86_64.rpm	VO001920RWUFE	HPD8	HPD8	更新
377	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd- 8fadc9efb2-HPD8- 1.1.x86_64.rpm	VO003840RWUFF	HPD8	HPD8	更新
378	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWEBH and EG000300JWEBF Drives	CP053464.zip	EG000600JWEBH	HPD5 (D)	HPD5	
379	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWEBH and EG000300JWEBF Drives	CP053464.zip	EG000300JWEBF	HPD5 (D)	HPD5	
380	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	CP055387.zip	EG000600JWJNP	HPD8	HPD8	

381	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	CP055387.zip	EG001200JWJNQ	HPD8	HPD8	
382	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	CP055387.zip	EG001200MXJQU	HPD8	HPD8	
383	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	CP055387.zip	EG000600JXLVV	HPD8	HPD8	
384	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	CP055387.zip	EG001200JXLWA	HPD8	HPD8	
385	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	CP055733.zip	EG001800JWJNR	HPDA (B)	HPDA	
386	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	CP055733.zip	EG002400JWJNT	HPDA (B)	HPDA	
387	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	CP055733.zip	EG002400MXJQT	HPDA (B)	HPDA	
388	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	CP055733.zip	EG001800JXLWB	HPDA (B)	HPDA	
389	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	CP055733.zip	EG002400JXLWC	HPDA (B)	HPDA	
390	Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPC, EH000300JWCPC	CP053495.zip	EH000300JWCPC	HPD9	HPD9	

	EH000600JWCPL and EH000900JWCPN Drives					
391	Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	CP053495.zip	EH000600JWCPL	HPD9	HPD9	
392	Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	CP053495.zip	EH000900JWCPN	HPD9	HPD9	
393	Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	CP053495.zip	EH000900JXLVU	HPD9	HPD9	
394	Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	CP053495.zip	EH000300JXLVR	HPD9	HPD9	
395	Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	CP053495.zip	EH000600JXLVT	HPD9	HPD9	
396	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives	CP053487.zip	EO000400PXDBQ	HPD3 (D)	HPD3	
397	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives	CP053487.zip	EO000800PXDCK	HPD3 (D)	HPD3	
398	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR,	CP053487.zip	EO001600PXDCH	HPD3 (D)	HPD3	

	VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives					
399	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP053487.zip	MO000800PXDBP	HPD3 (D)	HPD3	
400	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP053487.zip	MO001600PXDCC	HPD3 (D)	HPD3	
401	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP053487.zip	MO003200PXDCCD	HPD3 (D)	HPD3	
402	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP053487.zip	MO006400PXDCE	HPD3 (D)	HPD3	
403	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC,	CP053487.zip	VO000960PXDBN	HPD3 (D)	HPD3	

	MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives					
404	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP053487.zip	VO001920PXDBR	HPD3 (D)	HPD3	
405	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP053487.zip	VO003840PXDBT	HPD3 (D)	HPD3	
406	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP053487.zip	VO007680PXDBU	HPD3 (D)	HPD3	
407	Online HDD/SSD Flash Component for VMware ESXi - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	CP053487.zip	VO015300PXDBV	HPD3 (D)	HPD3	
408	Online HDD/SSD Flash Component for VMware ESXi - MB002000JWFVN and	CP053384.zip	MB002000JWFVN	HPD4 (D)	HPD4	

	MB004000JWFVP Drives					
409	Online HDD/SSD Flash Component for VMware ESXi - MB002000JWFVN and MB004000JWFVP Drives	CP053384.zip	MB004000JWFVP	HPD4 (D)	HPD4	
410	Online HDD/SSD Flash Component for VMware ESXi - MB002000JYDNE and MB004000JYDPB Drives	CP053349.zip	MB002000JYDNE	HPD2 (D)	HPD2	
411	Online HDD/SSD Flash Component for VMware ESXi - MB002000JYDNE and MB004000JYDPB Drives	CP053349.zip	MB004000JYDPB	HPD2 (D)	HPD2	
412	Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB and MB002000JWWQA Drives	CP053939.zip	MB004000JWWQB	HPD8	HPD8	
413	Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB and MB002000JWWQA Drives	CP053939.zip	MB002000JWWQA	HPD8	HPD8	
414	Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF and MB008000JYDPC Drives	CP053344.zip	MB006000JYDNF	HPD2 (D)	HPD2	
415	Online HDD/SSD Flash Component for VMware ESXi - MB006000JYDNF and MB008000JYDPC Drives	CP053344.zip	MB008000JYDPC	HPD2 (D)	HPD2	
416	Online HDD/SSD Flash Component for VMware ESXi - MB008000JWWQP and MB006000JWWQN Drives	CP053890.zip	MB008000JWWQP	HPD8	HPD8	
417	Online HDD/SSD Flash Component for VMware ESXi - MB008000JWWQP and MB006000JWWQN Drives	CP053890.zip	MB006000JWWQN	HPD8	HPD8	
418	Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	CP053847.zip	MB010000JWZHA	HPD4	HPD4	
419	Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	CP053847.zip	MB012000JWZHB	HPD4	HPD4	
420	Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	CP053847.zip	MB014000JWZHC	HPD4	HPD4	
421	Online HDD/SSD Flash Component for VMware ESXi - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	CP053847.zip	MB016000JWZHE	HPD4	HPD4	
422	Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV,	CP059882.zip	MB010000JYDKK	HPD3	HPD3	更新

	MB016000JYDKL and MB018000JYDKN Drives					
423	Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	CP059882.zip	MB012000JYCJF	HPD3	HPD3	更新
424	Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	CP059882.zip	MB014000JYCJV	HPD3	HPD3	更新
425	Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	CP059882.zip	MB016000JYDKL	HPD3	HPD3	更新
426	Online HDD/SSD Flash Component for VMware ESXi - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	CP059882.zip	MB018000JYDKN	HPD3	HPD3	更新
427	Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	CP059705.zip	MB012000JZYVN	HPD4	HPD4	更新
428	Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	CP059705.zip	MB014000JZYVP	HPD4	HPD4	更新
429	Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	CP059705.zip	MB016000JZYVQ	HPD4	HPD4	更新
430	Online HDD/SSD Flash Component for VMware ESXi - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	CP059705.zip	MB018000JYCLK	HPD4	HPD4	更新
431	Online HDD/SSD Flash Component for VMware ESXi - MB014000JXUCC Drive	CP058339.zip	MB014000JXUCC	HPD4	HPD4	新規追加
432	Online HDD/SSD Flash Component for VMware ESXi - MB016000JWXKH Drive	CP053443.zip	MB016000JWXKH	HPDA	HPDA	
433	Online HDD/SSD Flash Component for VMware ESXi - MB016000JXLBA and MB018000JXLAU Drives	CP058357.zip	MB016000JXLBA	HPD3	HPD3	更新
434	Online HDD/SSD Flash Component for VMware ESXi	CP058357.zip	MB018000JXLAU	HPD3	HPD3	更新

	- MB016000JLBA and MB018000JLAU Drives					
435	Online HDD/SSD Flash Component for VMware ESXi - MB018000JXMTM and MB020000JXMTP Drives	CP059876.zip	MB020000JXMTP	HPD2	HPD2	更新
436	Online HDD/SSD Flash Component for VMware ESXi - MB018000JXMTM and MB020000JXMTP Drives	CP059876.zip	MB018000JXMTM	HPD2	HPD2	更新
437	Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives	CP053417.zip	MM1000JEFRB	HPDA (C)	HPDA	
438	Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives	CP053417.zip	MM2000JEFRC	HPDA (C)	HPDA	
439	Online HDD/SSD Flash Component for VMware ESXi - MM1000JFJTH Drive	CP053419.zip	MM1000JFJTH	HPD5 (C)	HPD5	
440	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP059640.zip	VO000960RWUEV	HPD8	HPD8	更新
441	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP059640.zip	VO001920RWUFA	HPD8	HPD8	更新
442	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP059640.zip	VO003840RWUFB	HPD8	HPD8	更新
443	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP059640.zip	VO007680RWUFC	HPD8	HPD8	更新
444	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP059640.zip	VO000960RWUFD	HPD8	HPD8	更新

445	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP059640.zip	VO001920RWUFE	HPD8	HPD8	更新
446	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP059640.zip	VO003840RWUFF	HPD8	HPD8	更新
447	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF Drives	cp052980.exe	EG000600JWEBH	HPD5 (D)	HPD5	
448	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWEBH and EG000300JWEBF Drives	cp052980.exe	EG000300JWEBF	HPD5 (D)	HPD5	
449	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	cp055388.exe	EG000600JWJNP	HPD8	HPD8	
450	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	cp055388.exe	EG001200JWJNQ	HPD8	HPD8	
451	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	cp055388.exe	EG001200MXJQU	HPD8	HPD8	
452	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	cp055388.exe	EG000600JXLVV	HPD8	HPD8	
453	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP, EG001200JWJNQ, EG000600JXLVV, EG001200JXLWA and EG001200MXJQU Drives	cp055388.exe	EG001200JXLWA	HPD8	HPD8	
454	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB,	cp055734.exe	EG001800JWJNR	HPDA (B)	HPDA	

	EG002400JXLWC and EG002400MXJQT Drives					
455	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	cp055734.exe	EG002400JWJNT	HPDA (B)	HPDA	
456	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	cp055734.exe	EG002400MXJQT	HPDA (B)	HPDA	
457	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	cp055734.exe	EG001800JXLWB	HPDA (B)	HPDA	
458	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR, EG002400JWJNT, EG001800JXLWB, EG002400JXLWC and EG002400MXJQT Drives	cp055734.exe	EG002400JXLWC	HPDA (B)	HPDA	
459	Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	cp055383.exe	EH000300JWCPK	HPD9	HPD9	
460	Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	cp055383.exe	EH000600JWCPL	HPD9	HPD9	
461	Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	cp055383.exe	EH000900JWCPN	HPD9	HPD9	
462	Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	cp055383.exe	EH000900JXLVU	HPD9	HPD9	
463	Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	cp055383.exe	EH000300JXLVR	HPD9	HPD9	
464	Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	cp055383.exe	EH000600JXLVT	HPD9	HPD9	
465	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP,	cp059285.exe	EO000400PXDBQ	HPD3 (D)	HPD3	

	MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives					
466	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp059285.exe	EO000800PXDCK	HPD3 (D)	HPD3	
467	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp059285.exe	EO001600PXDCH	HPD3 (D)	HPD3	
468	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp059285.exe	MO000800PXDBP	HPD3 (D)	HPD3	
469	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp059285.exe	MO001600PXDCC	HPD3 (D)	HPD3	
470	Online HDD/SSD Flash Component for Windows	cp059285.exe	MO003200PXDCC	HPD3 (D)	HPD3	

	(x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives					
471	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives	cp059285.exe	MO006400PXDCE	HPD3 (D)	HPD3	
472	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives	cp059285.exe	VO000960PXDBN	HPD3 (D)	HPD3	
473	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT, VO007680PXDDBU and VO015300PXDDBV Drives	cp059285.exe	VO001920PXDDBR	HPD3 (D)	HPD3	
474	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCCD, MO006400PXDCE, VO000960PXDBN, VO001920PXDDBR, VO003840PXDDBT,	cp059285.exe	VO003840PXDDBT	HPD3 (D)	HPD3	

	VO007680PXDBU and VO015300PXDBV Drives					
475	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp059285.exe	VO007680PXDBU	HPD3 (D)	HPD3	
476	Online HDD/SSD Flash Component for Windows (x64) - EO000400PXDBQ, EO000800PXDCK, EO001600PXDCH, MO000800PXDBP, MO001600PXDCC, MO003200PXDCC, MO006400PXDCE, VO000960PXDBN, VO001920PXDBR, VO003840PXDBT, VO007680PXDBU and VO015300PXDBV Drives	cp059285.exe	VO015300PXDBV	HPD3 (D)	HPD3	
477	Online HDD/SSD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives	cp052937.exe	MB002000JWFVN	HPD4 (D)	HPD4	
478	Online HDD/SSD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives	cp052937.exe	MB004000JWFVP	HPD4 (D)	HPD4	
479	Online HDD/SSD Flash Component for Windows (x64) - MB002000JYDNE and MB004000JYDPB Drives	cp059288.exe	MB002000JYDNE	HPD2 (D)	HPD2	
480	Online HDD/SSD Flash Component for Windows (x64) - MB002000JYDNE and MB004000JYDPB Drives	cp059288.exe	MB004000JYDPB	HPD2 (D)	HPD2	
481	Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB and MB002000JWWQA Drives	cp053940.exe	MB004000JWWQ B	HPD8	HPD8	
482	Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB and MB002000JWWQA Drives	cp053940.exe	MB002000JWWQ A	HPD8	HPD8	
483	Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF and MB008000JYDPC Drives	cp059287.exe	MB006000JYDNF	HPD2 (D)	HPD2	
484	Online HDD/SSD Flash Component for Windows (x64) - MB006000JYDNF and MB008000JYDPC Drives	cp059287.exe	MB008000JYDPC	HPD2 (D)	HPD2	
485	Online HDD/SSD Flash Component for Windows	cp053891.exe	MB008000JWWQ P	HPD8	HPD8	

	(x64) - MB008000JWWQP and MB006000JWWQN Drives					
486	Online HDD/SSD Flash Component for Windows (x64) - MB008000JWWQP and MB006000JWWQN Drives	cp053891.exe	MB006000JWWQN	HPD8	HPD8	
487	Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	cp053848.exe	MB010000JWZHA	HPD4	HPD4	
488	Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	cp053848.exe	MB012000JWZHB	HPD4	HPD4	
489	Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	cp053848.exe	MB014000JWZHC	HPD4	HPD4	
490	Online HDD/SSD Flash Component for Windows (x64) - MB010000JWZHA, MB012000JWZHB, MB014000JWZHC and MB016000JWZHE Drives	cp053848.exe	MB016000JWZHE	HPD4	HPD4	
491	Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	cp059883.exe	MB010000JYDKK	HPD3	HPD3	更新
492	Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	cp059883.exe	MB012000JYCJF	HPD3	HPD3	更新
493	Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	cp059883.exe	MB014000JYCJV	HPD3	HPD3	更新
494	Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and MB018000JYDKN Drives	cp059883.exe	MB016000JYDKL	HPD3	HPD3	更新
495	Online HDD/SSD Flash Component for Windows (x64) - MB010000JYDKK, MB012000JYCJF, MB014000JYCJV, MB016000JYDKL and	cp059883.exe	MB018000JYDKN	HPD3	HPD3	更新

	MB018000JYDKN Drives					
496	Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	cp059707.exe	MB012000JZYVN	HPD4	HPD4	更新
497	Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	cp059707.exe	MB014000JZYVP	HPD4	HPD4	更新
498	Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	cp059707.exe	MB016000JZYVQ	HPD4	HPD4	更新
499	Online HDD/SSD Flash Component for Windows (x64) - MB012000JZYVN, MB014000JZYVP, MB016000JZYVQ and MB018000JYCLK Drives	cp059707.exe	MB018000JYCLK	HPD4	HPD4	更新
500	Online HDD/SSD Flash Component for Windows (x64) - MB014000JXUCC Drive	cp058340.exe	MB014000JXUCC	HPD4	HPD4	新規追加
501	Online HDD/SSD Flash Component for Windows (x64) - MB016000JWXKH Drive	cp055195.exe	MB016000JWXKH	HPDA	HPDA	
502	Online HDD/SSD Flash Component for Windows (x64) - MB016000JXLBA and MB018000JXLAU Drives	cp058358.exe	MB016000JXLBA	HPD3	HPD3	更新
503	Online HDD/SSD Flash Component for Windows (x64) - MB016000JXLBA and MB018000JXLAU Drives	cp058358.exe	MB018000JXLAU	HPD3	HPD3	更新
504	Online HDD/SSD Flash Component for Windows (x64) - MB018000JXMTH and MB020000JXMTP Drives	cp059877.exe	MB020000JXMTP	HPD2	HPD2	更新
505	Online HDD/SSD Flash Component for Windows (x64) - MB018000JXMTH and MB020000JXMTP Drives	cp059877.exe	MB018000JXMTH	HPD2	HPD2	更新
506	Online HDD/SSD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives	cp059273.exe	MM1000JEFRB	HPDA (C)	HPDA	
507	Online HDD/SSD Flash Component for Windows (x64) - MM1000JEFRB and MM2000JEFRC Drives	cp059273.exe	MM2000JEFRC	HPDA (C)	HPDA	
508	Online HDD/SSD Flash Component for Windows (x64) - MM1000JFJTH Drive	cp059286.exe	MM1000JFJTH	HPD5 (C)	HPD5	
509	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD,	cp059641.exe	VO000960RWUEV	HPD8	HPD8	更新

	VO001920RWUFE and VO003840RWUFF Drives					
510	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp059641.exe	VO001920RWUFA	HPD8	HPD8	更新
511	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp059641.exe	VO003840RWUFB	HPD8	HPD8	更新
512	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp059641.exe	VO007680RWUFC	HPD8	HPD8	更新
513	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp059641.exe	VO000960RWUFD	HPD8	HPD8	更新
514	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp059641.exe	VO001920RWUFE	HPD8	HPD8	更新
515	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp059641.exe	VO003840RWUFF	HPD8	HPD8	更新
516	Universal Firmware Package for Drives - MB020000JXMVU	WDC_ParisD_WparisdA SFD1.fwpkg	WDC-ParisD-SAS	HPD1	HPD1	新規追加
517	Universal Firmware Package for Drives - MO000960RXKRC, MO001920RXKRH, MO003840RXKRC, VO000960RXKRB, VO001920RXKRD and VO003840RXKRE	Seagate_LangeBP_SLNG BHPESD5.fwpkg	Seagate-LangeBP-SAS	HPD5	HPD5	
518	Universal Firmware Package	Seagate_Cooper_SCOO	Seagate-Cooper-	HPD3	HPD3	新規追加

	for Drives - MO000960RXRQK, MO001920XRRR, MO003840XRRR, VO000960RXRQL, VO001920XRRL, VO003840XRRL and VO007680RYEWD	PRHPESD3.fwpkg	SAS			
519	Universal Firmware Package for Drives - MO001600PXMTN, MO003200PXMTV, MO006400PXMUA, VO001920PXMTL, VO003840PXMTR, VO007680PXMTT and VO015360PXMTU	Kioxia_PM7_KAPM7ALS HPD2.fwpkg	Kioxia-PM7-SAS	HPD2	HPD2	新規追加
520	Universal Firmware Package for Drives - MO001600PZWSH, MO003200PZWSK, MO000800PZWSF and MO006400PZXFA	Samsung_PM165X_GP M1655SAMD3.fwpkg	Samsung- PM165X-SAS	HPD3	HPD3	
521	Universal Firmware Package for Drives - VO000960PZWSL, VO001920PZWSN, VO003840PZWSF, VO007680PZXF and VO015360PZXEU	Samsung_PM165X_GP M1653SAMD3.fwpkg	Samsung- PM165X-SAS	HPD3	HPD3	
522	Universal Firmware Package for Drives - VO000960RZWUP, VO000960RZWUQ, VO001920RZWUR, VO001920RZUUV, VO003840RZUUT, VO003840RZWVA and VO007680RZWUU	Kioxia_RM6_KARM6ALS HPD1.fwpkg	Kioxia-RM6-SAS	HPD1	HPD1	新規追加

6.2.14 Firmware - SATA Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
523	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWFWK and MB002000GWFWL Drives	firmware-hdd- bfc4af697b-HPG6- 10.1.x86_64.rpm	MB001000GWFWK	HPG6 (J)	HPG6	
524	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWFWK and MB002000GWFWL Drives	firmware-hdd- bfc4af697b-HPG6- 10.1.x86_64.rpm	MB002000GFWL	HPG6 (J)	HPG6	
525	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	firmware-hdd- d39e7a7e75-HPG1- 11.1.x86_64.rpm	MB001000GWJAN	HPG1 (K)	HPG1	
526	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	firmware-hdd- d39e7a7e75-HPG1- 11.1.x86_64.rpm	MB002000GFWA	HPG1 (K)	HPG1	
527	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFWA and MB004000GWFWB Drives	firmware-hdd- d39e7a7e75-HPG1- 11.1.x86_64.rpm	MB004000GFWB	HPG1 (K)	HPG1	
528	Online HDD/SSD Flash	firmware-hdd-	MB004000GWKG	HPG1 (J)	HPG1	

	Component for Linux (x64) - MB004000GWKGV Drive	ca21e169e2-HPG1-10.1.x86_64.rpm	V			
529	Online HDD/SSD Flash Component for Linux (x64) - MB006000GWKGR Drive	firmware-hdd-7f2a26e6d0-HPG1-10.1.x86_64.rpm	MB006000GWKGR	HPG1 (J)	HPG1	
530	Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	firmware-hdd-4fbb6d96e5-HPG2-1.1.x86_64.rpm	MB010000GYDKP	HPG2	HPG2	更新
531	Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	firmware-hdd-4fbb6d96e5-HPG2-1.1.x86_64.rpm	MB012000GYCJL	HPG2	HPG2	更新
532	Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	firmware-hdd-4fbb6d96e5-HPG2-1.1.x86_64.rpm	MB014000GYCJT	HPG2	HPG2	更新
533	Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	firmware-hdd-4fbb6d96e5-HPG2-1.1.x86_64.rpm	MB016000GYDKQ	HPG2	HPG2	更新
534	Online HDD/SSD Flash Component for Linux (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	firmware-hdd-4fbb6d96e5-HPG2-1.1.x86_64.rpm	MB018000GYDKR	HPG2	HPG2	更新
535	Online HDD/SSD Flash Component for Linux (x64) - MB012000GWDFE Drive	firmware-hdd-059b8654a6-HPG3-7.1.x86_64.rpm	MB012000GWDFE	HPG3 (G)	HPG3	
536	Online HDD/SSD Flash Component for Linux (x64) - MB012000GWTFE and MB014000GWTFE Drives	firmware-hdd-b78255e146-HPG8-3.1.x86_64.rpm	MB012000GWTFE	HPG8 (C)	HPG8	
537	Online HDD/SSD Flash Component for Linux (x64) - MB012000GWTFE and MB014000GWTFE Drives	firmware-hdd-b78255e146-HPG8-3.1.x86_64.rpm	MB014000GWTFE	HPG8 (C)	HPG8	
538	Online HDD/SSD Flash Component for Linux (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	firmware-hdd-e0171a2936-HPG4-1.1.x86_64.rpm	MB012000GZYVT	HPG4	HPG4	更新
539	Online HDD/SSD Flash Component for Linux (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	firmware-hdd-e0171a2936-HPG4-1.1.x86_64.rpm	MB014000GZYVU	HPG4	HPG4	更新
540	Online HDD/SSD Flash Component for Linux (x64) - MB012000GZYVT,	firmware-hdd-e0171a2936-HPG4-1.1.x86_64.rpm	MB016000GZYVV	HPG4	HPG4	更新

	MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives					
541	Online HDD/SSD Flash Component for Linux (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	firmware-hdd- e0171a2936-HPG4- 1.1.x86_64.rpm	MB018000GYCLL	HPG4	HPG4	更新
542	Online HDD/SSD Flash Component for Linux (x64) - MB016000GWXKK Drive	firmware-hdd- e4f147cdd2-HPG4- 2.1.x86_64.rpm	MB016000GWXK K	HPG4 (B)	HPG4	
543	Online HDD/SSD Flash Component for Linux (x64) - MB018000GXMTK and MB020000GXMTQ Drives	firmware-hdd- 3496cc4743-HPG2- 1.1.x86_64.rpm	MB018000GXMTK	HPG2	HPG2	更新
544	Online HDD/SSD Flash Component for Linux (x64) - MB018000GXMTK and MB020000GXMTQ Drives	firmware-hdd- 3496cc4743-HPG2- 1.1.x86_64.rpm	MB020000GXMT Q	HPG2	HPG2	更新
545	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	firmware-hdd- f693ccc138-HPG3- 8.1.x86_64.rpm	MK000480GWSSC	HPG3 (H)	HPG3	
546	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	firmware-hdd- f693ccc138-HPG3- 8.1.x86_64.rpm	MK000960GWSSD	HPG3 (H)	HPG3	
547	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	firmware-hdd- f693ccc138-HPG3- 8.1.x86_64.rpm	MK001920GWSSE	HPG3 (H)	HPG3	
548	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	firmware-hdd- f693ccc138-HPG3- 8.1.x86_64.rpm	MK003840GWSSF	HPG3 (H)	HPG3	
549	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	firmware-hdd- 8e1e8083c5-HPG3- 2.1.x86_64.rpm	MK000480GWXFF	HPG3 (B)	HPG3	
550	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	firmware-hdd- 8e1e8083c5-HPG3- 2.1.x86_64.rpm	MK000960GWXF H	HPG3 (B)	HPG3	
551	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	firmware-hdd- 8e1e8083c5-HPG3- 2.1.x86_64.rpm	MK001920GWXFK	HPG3 (B)	HPG3	
552	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH,	firmware-hdd- 8e1e8083c5-HPG3- 2.1.x86_64.rpm	MK003840GWXFL	HPG3 (B)	HPG3	

	MK001920GWXFK and MK003840GWXFL Drives					
553	Online HDD/SSD Flash Component for Linux (x64) - MK000480GZXRA, MK000960GZXR B, MK001920GZXRC and MK003840GZXRV Drives	firmware-hdd-9475583fb5-HPG1-2.1.x86_64.rpm	MK000480GZXRA	HPG1 (B)	HPG1	
554	Online HDD/SSD Flash Component for Linux (x64) - MK000480GZXRA, MK000960GZXR B, MK001920GZXRC and MK003840GZXRV Drives	firmware-hdd-9475583fb5-HPG1-2.1.x86_64.rpm	MK000960GZXR B	HPG1 (B)	HPG1	
555	Online HDD/SSD Flash Component for Linux (x64) - MK000480GZXRA, MK000960GZXR B, MK001920GZXRC and MK003840GZXRV Drives	firmware-hdd-9475583fb5-HPG1-2.1.x86_64.rpm	MK001920GZXRC	HPG1 (B)	HPG1	
556	Online HDD/SSD Flash Component for Linux (x64) - MK000480GZXRA, MK000960GZXR B, MK001920GZXRC and MK003840GZXRV Drives	firmware-hdd-9475583fb5-HPG1-2.1.x86_64.rpm	MK003840GZXRV	HPG1 (B)	HPG1	
557	Online HDD/SSD Flash Component for Linux (x64) - MM1000GFJTE Drive	firmware-hdd-95af9a555e-HPG6-3.1.x86_64.rpm	MM1000GFJTE	HPG6 (C)	HPG6	
558	Online HDD/SSD Flash Component for Linux (x64) - MM2000GEFRA Drive	firmware-hdd-ec908c3650-HPG9-3.1.x86_64.rpm	MM2000GEFRA	HPG9 (C)	HPG9	
559	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG4-8.1.x86_64.rpm	VK000240GWSRQ	HPG4 (H)	HPG4	
560	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG4-8.1.x86_64.rpm	VK000480GWSRR	HPG4 (H)	HPG4	
561	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG4-8.1.x86_64.rpm	VK000960GWSRT	HPG4 (H)	HPG4	
562	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG4-8.1.x86_64.rpm	VK001920GWSRU	HPG4 (H)	HPG4	
563	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and	firmware-hdd-db687966b4-HPG4-8.1.x86_64.rpm	VK003840GWSRV	HPG4 (H)	HPG4	

	VK003840GWSRV Drives					
564	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG7-2.1.x86_64.rpm	VK000240GWTSV	HPG7 (B)	HPG7	
565	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG7-2.1.x86_64.rpm	VK000480GWTTA	HPG7 (B)	HPG7	
566	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG7-2.1.x86_64.rpm	VK000960GWTTB	HPG7 (B)	HPG7	
567	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG7-2.1.x86_64.rpm	VK001920GWTTT	HPG7 (B)	HPG7	
568	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG7-2.1.x86_64.rpm	VK003840GWTTD	HPG7 (B)	HPG7	
569	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and	firmware-hdd-c566d63ca0-HPG7-2.1.x86_64.rpm	MK000480GWTT H	HPG7 (B)	HPG7	

	MK003840GWTTN Drives					
570	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG7-2.1.x86_64.rpm	MK000960GWTTK	HPG7 (B)	HPG7	
571	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG7-2.1.x86_64.rpm	MK001920GWTTL	HPG7 (B)	HPG7	
572	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63ca0-HPG7-2.1.x86_64.rpm	MK003840GWTTN	HPG7 (B)	HPG7	
573	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	firmware-hdd-8f9bf23306-HPG1-7.1.x86_64.rpm	VK000240GXAWE	HPG1 (G)	HPG1	
574	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	firmware-hdd-8f9bf23306-HPG1-7.1.x86_64.rpm	VK000480GXAWK	HPG1 (G)	HPG1	
575	Online HDD/SSD Flash Component for Linux (x64) -	firmware-hdd-8f9bf23306-HPG1-	VK000960GXAWL	HPG1 (G)	HPG1	

	VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	7.1.x86_64.rpm				
576	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	firmware-hdd- 8f9bf23306-HPG1- 7.1.x86_64.rpm	VK001920GXAWN	HPG1 (G)	HPG1	
577	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	firmware-hdd- 8f9bf23306-HPG1- 7.1.x86_64.rpm	VK003840GXAWP	HPG1 (G)	HPG1	
578	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	firmware-hdd- 8f9bf23306-HPG1- 7.1.x86_64.rpm	VK007680GXAWQ	HPG1 (G)	HPG1	
579	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ,	firmware-hdd- 8f9bf23306-HPG1- 7.1.x86_64.rpm	MK000480GXAWF	HPG1 (G)	HPG1	

	MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives					
580	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	firmware-hdd- 8f9bf23306-HPG1- 7.1.x86_64.rpm	MK000960GXAXB	HPG1 (G)	HPG1	
581	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	firmware-hdd- 8f9bf23306-HPG1- 7.1.x86_64.rpm	MK001920GXAW R	HPG1 (G)	HPG1	
582	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	firmware-hdd- 8f9bf23306-HPG1- 7.1.x86_64.rpm	MK003840GXAW T	HPG1 (G)	HPG1	
583	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and	firmware-hdd- 8f9bf23306-HPG1- 7.1.x86_64.rpm	VR000240GXBBL	HPG1 (G)	HPG1	

	MR000960GXBGK Drives					
584	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	firmware-hdd-8f9bf23306-HPG1-7.1.x86_64.rpm	MR000480GXBGH	HPG1 (G)	HPG1	
585	Online HDD/SSD Flash Component for Linux (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	firmware-hdd-8f9bf23306-HPG1-7.1.x86_64.rpm	MR000960GXBGK	HPG1 (G)	HPG1	
586	Online HDD/SSD Flash Component for Linux (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	firmware-hdd-abd133f0de-HPG1-2.1.x86_64.rpm	VK000240GZXRU	HPG1 (B)	HPG1	
587	Online HDD/SSD Flash Component for Linux (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	firmware-hdd-abd133f0de-HPG1-2.1.x86_64.rpm	VK000480GZXRF	HPG1 (B)	HPG1	
588	Online HDD/SSD Flash Component for Linux (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	firmware-hdd-abd133f0de-HPG1-2.1.x86_64.rpm	VK000960GZXQU	HPG1 (B)	HPG1	
589	Online HDD/SSD Flash Component for Linux (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	firmware-hdd-abd133f0de-HPG1-2.1.x86_64.rpm	VK001920GZXQV	HPG1 (B)	HPG1	
590	Online HDD/SSD Flash Component for Linux (x64) - VK000240GZXRU,	firmware-hdd-abd133f0de-HPG1-2.1.x86_64.rpm	VK003840GZXRH	HPG1 (B)	HPG1	

	VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives					
591	Online HDD/SSD Flash Component for Linux (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	firmware-hdd- abd133f0de-HPG1- 2.1.x86_64.rpm	VK007680GZXRT	HPG1 (B)	HPG1	
592	Online HDD/SSD Flash Component for Linux (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	firmware-hdd- befd42bd64-HPG3- 2.1.x86_64.rpm	VK000480GZCNE	HPG3 (B)	HPG3	
593	Online HDD/SSD Flash Component for Linux (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	firmware-hdd- befd42bd64-HPG3- 2.1.x86_64.rpm	VK000960GZCNF	HPG3 (B)	HPG3	
594	Online HDD/SSD Flash Component for Linux (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	firmware-hdd- befd42bd64-HPG3- 2.1.x86_64.rpm	VK001920GZCNH	HPG3 (B)	HPG3	
595	Online HDD/SSD Flash Component for Linux (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	firmware-hdd- befd42bd64-HPG3- 2.1.x86_64.rpm	VK003840GZCNK	HPG3 (B)	HPG3	
596	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFVK and MB002000GWFVL Drives	CP053380.zip	MB001000GWFVK	HPG6 (H)	HPG6	
597	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFVK and MB002000GWFVL Drives	CP053380.zip	MB002000GWFVL	HPG6 (H)	HPG6	
598	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GFWFA and MB004000GFWFB Drives	CP053382.zip	MB001000GWJAN	HPG1 (H)	HPG1	
599	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GFWFA and MB004000GFWFB Drives	CP053382.zip	MB002000GFWFA	HPG1 (H)	HPG1	
600	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWJAN, MB002000GFWFA and MB004000GFWFB Drives	CP053382.zip	MB004000GFWFB	HPG1 (H)	HPG1	
601	Online HDD/SSD Flash Component for VMware ESXi - MB004000GWKGV Drive	CP053386.zip	MB004000GWKGV	HPG1 (H)	HPG1	
602	Online HDD/SSD Flash Component for VMware ESXi - MB006000GWKGR Drive	CP053392.zip	MB006000GWKGR	HPG1 (H)	HPG1	

603	Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	CP059885.zip	MB010000GYDKP	HPG2	HPG2	更新
604	Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	CP059885.zip	MB012000GYCJL	HPG2	HPG2	更新
605	Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	CP059885.zip	MB014000GYCJT	HPG2	HPG2	更新
606	Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	CP059885.zip	MB016000GYDKQ	HPG2	HPG2	更新
607	Online HDD/SSD Flash Component for VMware ESXi - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	CP059885.zip	MB018000GYDKR	HPG2	HPG2	更新
608	Online HDD/SSD Flash Component for VMware ESXi - MB012000GWDFE Drive	CP053400.zip	MB012000GWDFE	HPG3 (D)	HPG3	
609	Online HDD/SSD Flash Component for VMware ESXi - MB012000GWTFE and MB014000GWTFE Drives	CP054181.zip	MB012000GWTFE	HPG8	HPG8	
610	Online HDD/SSD Flash Component for VMware ESXi - MB012000GWTFE and MB014000GWTFE Drives	CP054181.zip	MB014000GWTFE	HPG8	HPG8	
611	Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	CP059708.zip	MB012000GZYVT	HPG4	HPG4	更新
612	Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	CP059708.zip	MB014000GZYVU	HPG4	HPG4	更新
613	Online HDD/SSD Flash Component for VMware ESXi - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	CP059708.zip	MB016000GZYVV	HPG4	HPG4	更新
614	Online HDD/SSD Flash Component for VMware ESXi -	CP059708.zip	MB018000GYCLL	HPG4	HPG4	更新

	MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives					
615	Online HDD/SSD Flash Component for VMware ESXi - MB016000GWXKK Drive	CP053446.zip	MB016000GWXKK	HPG4	HPG4	
616	Online HDD/SSD Flash Component for VMware ESXi - MB018000GXMTK and MB020000GXMTQ Drives	CP059879.zip	MB018000GXMTK	HPG2	HPG2	更新
617	Online HDD/SSD Flash Component for VMware ESXi - MB018000GXMTK and MB020000GXMTQ Drives	CP059879.zip	MB020000GXMTQ	HPG2	HPG2	更新
618	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	CP053430.zip	MK000480GWSSC	HPG3 (E)	HPG3	
619	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	CP053430.zip	MK000960GWSSD	HPG3 (E)	HPG3	
620	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	CP053430.zip	MK001920GWSSE	HPG3 (E)	HPG3	
621	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	CP053430.zip	MK003840GWSSF	HPG3 (E)	HPG3	
622	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP056439.zip	MK000480GWXFF	HPG3	HPG3	
623	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP056439.zip	MK000960GWXFH	HPG3	HPG3	
624	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP056439.zip	MK001920GWXFK	HPG3	HPG3	
625	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP056439.zip	MK003840GWXFL	HPG3	HPG3	
626	Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXRA,	CP055686.zip	MK000480GZXRA	HPG1	HPG1	

	MK000960GZXR B, MK001920GZXR C and MK003840GZ XR V Drives.					
627	Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXR A, MK000960GZXR B, MK001920GZXR C and MK003840GZXR V Drives.	CP055686.zip	MK000960GZXR B	HPG1	HPG1	
628	Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXR A, MK000960GZXR B, MK001920GZXR C and MK003840GZXR V Drives.	CP055686.zip	MK001920GZXR C	HPG1	HPG1	
629	Online HDD/SSD Flash Component for VMware ESXi - MK000480GZXR A, MK000960GZXR B, MK001920GZXR C and MK003840GZXR V Drives.	CP055686.zip	MK003840GZXR V	HPG1	HPG1	
630	Online HDD/SSD Flash Component for VMware ESXi - MM1000GFJTE Drive	CP053414.zip	MM1000GFJTE	HPG6 (B)	HPG6	
631	Online HDD/SSD Flash Component for VMware ESXi - MM2000GEFRA Drive	CP053412.zip	MM2000GEFRA	HPG9 (B)	HPG9	
632	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSR Q, VK000480GWSR R, VK000960GWSR T, VK001920GWSR U, VK003840GWSR V Drives	CP053432.zip	VK000240GWSR Q	HPG4 (E)	HPG4	
633	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSR Q, VK000480GWSR R, VK000960GWSR T, VK001920GWSR U, VK003840GWSR V Drives	CP053432.zip	VK000480GWSR R	HPG4 (E)	HPG4	
634	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSR Q, VK000480GWSR R, VK000960GWSR T, VK001920GWSR U, VK003840GWSR V Drives	CP053432.zip	VK000960GWSR T	HPG4 (E)	HPG4	
635	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSR Q, VK000480GWSR R, VK000960GWSR T, VK001920GWSR U, VK003840GWSR V Drives	CP053432.zip	VK001920GWSR U	HPG4 (E)	HPG4	
636	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSR Q, VK000480GWSR R, VK000960GWSR T, VK001920GWSR U, VK003840GWSR V Drives	CP053432.zip	VK003840GWSR V	HPG4 (E)	HPG4	
637	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWT S V, VK000480GWT T A,	CP059442.zip	VK000240GWT S V	HPG7 (B)	HPG7	

	VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives					
638	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP059442.zip	VK000480GWTTA	HPG7 (B)	HPG7	
639	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP059442.zip	VK000960GWTTB	HPG7 (B)	HPG7	
640	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP059442.zip	VK001920GWTTT	HPG7 (B)	HPG7	
641	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP059442.zip	VK003840GWTTD	HPG7 (B)	HPG7	
642	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTT and MK003840GWTTN Drives	CP059442.zip	MK000480GWTT H	HPG7 (B)	HPG7	
643	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA,	CP059442.zip	MK000960GWTTK	HPG7 (B)	HPG7	

	VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives					
644	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP059442.zip	MK001920GWTTL	HPG7 (B)	HPG7	
645	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP059442.zip	MK003840GWTT N	HPG7 (B)	HPG7	
646	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GX AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	CP053453.zip	VK000240GXAWE	HPG1 (D)	HPG1	
647	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GX AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	CP053453.zip	VK000480GXAWK	HPG1 (D)	HPG1	
648	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF,	CP053453.zip	VK000960GXAWL	HPG1 (D)	HPG1	

	MK000960GXAXB,MK001920GXA AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives					
649	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GXA AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	CP053453.zip	VK001920GXAWN	HPG1 (D)	HPG1	
650	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GXA AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	CP053453.zip	VK003840GXAWP	HPG1 (D)	HPG1	
651	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GXA AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	CP053453.zip	VK007680GXAWQ	HPG1 (D)	HPG1	
652	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GXA AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	CP053453.zip	MK000480GXAWF	HPG1 (D)	HPG1	
653	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL,	CP053453.zip	MK000960GXAXB	HPG1 (D)	HPG1	

	VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GX AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives					
654	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GX AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	CP053453.zip	MK001920GXAW R	HPG1 (D)	HPG1	
655	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GX AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	CP053453.zip	MK003840GXAW T	HPG1 (D)	HPG1	
656	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GX AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	CP053453.zip	VR000240GXBBL	HPG1 (D)	HPG1	
657	Online HDD/SSD Flash Component for VMware ESXi - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GX AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	CP053453.zip	MR000480GXBGH	HPG1 (D)	HPG1	
658	Online HDD/SSD Flash	CP053453.zip	MR000960GXBGK	HPG1 (D)	HPG1	

	Component for VMware ESXi - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,MK001920GX AWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives					
659	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP055690.zip	VK000240GZXRU	HPG1	HPG1	
660	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP055690.zip	VK000480GZXRF	HPG1	HPG1	
661	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP055690.zip	VK000960GZXQU	HPG1	HPG1	
662	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP055690.zip	VK001920GZXQV	HPG1	HPG1	
663	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP055690.zip	VK003840GZXRH	HPG1	HPG1	
664	Online HDD/SSD Flash Component for VMware ESXi - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives.	CP055690.zip	VK007680GZXRT	HPG1	HPG1	
665	Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and	CP056237.zip	VK000480GZCNE	HPG3	HPG3	

	VK003840GZCNK Drives					
666	Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	CP056237.zip	VK000960GZCNF	HPG3	HPG3	
667	Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	CP056237.zip	VK001920GZCNH	HPG3	HPG3	
668	Online HDD/SSD Flash Component for VMware ESXi - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	CP056237.zip	VK003840GZCNK	HPG3	HPG3	
669	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWFVK and MB002000GWFVL Drives	cp052935.exe	MB001000GWFVK	HPG6 (G)	HPG6	
670	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWFVK and MB002000GWFVL Drives	cp052935.exe	MB002000GWFVL	HPG6 (G)	HPG6	
671	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFVA and MB004000GWFVB Drives	cp052936.exe	MB001000GWJAN	HPG1 (G)	HPG1	
672	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFVA and MB004000GWFVB Drives	cp052936.exe	MB002000GWFVA	HPG1 (G)	HPG1	
673	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GWFVA and MB004000GWFVB Drives	cp052936.exe	MB004000GWFVB	HPG1 (G)	HPG1	
674	Online HDD/SSD Flash Component for Windows (x64) - MB004000GWKGV Drive	cp052938.exe	MB004000GWKGV	HPG1 (G)	HPG1	
675	Online HDD/SSD Flash Component for Windows (x64) - MB006000GWKGR Drive	cp052941.exe	MB006000GWKGR	HPG1 (G)	HPG1	
676	Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	cp059886.exe	MB010000GYDKP	HPG2	HPG2	更新
677	Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	cp059886.exe	MB012000GYCJL	HPG2	HPG2	更新
678	Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL,	cp059886.exe	MB014000GYCJT	HPG2	HPG2	更新

	MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives					
679	Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	cp059886.exe	MB016000GYDKQ	HPG2	HPG2	更新
680	Online HDD/SSD Flash Component for Windows (x64) - MB010000GYDKP, MB012000GYCJL, MB014000GYCJT, MB016000GYDKQ and MB018000GYDKR Drives	cp059886.exe	MB018000GYDKR	HPG2	HPG2	更新
681	Online HDD/SSD Flash Component for Windows (x64) - MB012000GWDFE Drive	cp052947.exe	MB012000GWDF E	HPG3 (D)	HPG3	
682	Online HDD/SSD Flash Component for Windows (x64) - MB012000GWTFE and MB014000GWTFE Drives	cp054182.exe	MB012000GWTFE	HPG8	HPG8	
683	Online HDD/SSD Flash Component for Windows (x64) - MB012000GWTFE and MB014000GWTFE Drives	cp054182.exe	MB014000GWTFE	HPG8	HPG8	
684	Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	cp059710.exe	MB012000GZYVT	HPG4	HPG4	更新
685	Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	cp059710.exe	MB014000GZYVU	HPG4	HPG4	更新
686	Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	cp059710.exe	MB016000GZYVV	HPG4	HPG4	更新
687	Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZYVU, MB016000GZYVV and MB018000GYCLL Drives	cp059710.exe	MB018000GYCLL	HPG4	HPG4	更新
688	Online HDD/SSD Flash Component for Windows (x64) - MB016000GWXK K Drive	cp055196.exe	MB016000GWXK K	HPG4	HPG4	
689	Online HDD/SSD Flash Component for Windows (x64) - MB018000GXMTK and MB020000GXMTQ Drives	cp059880.exe	MB018000GXMTK	HPG2	HPG2	更新
690	Online HDD/SSD Flash Component for Windows (x64) - MB018000GXMTK and MB020000GXMTQ Drives	cp059880.exe	MB020000GXMT Q	HPG2	HPG2	更新
691	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC,	cp052964.exe	MK000480GWSSC	HPG3 (E)	HPG3	

	MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives					
692	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	cp052964.exe	MK000960GWSSD	HPG3 (E)	HPG3	
693	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	cp052964.exe	MK001920GWSSE	HPG3 (E)	HPG3	
694	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	cp052964.exe	MK003840GWSSF	HPG3 (E)	HPG3	
695	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp056440.exe	MK000480GWXFF	HPG3	HPG3	
696	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp056440.exe	MK000960GWXF H	HPG3	HPG3	
697	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp056440.exe	MK001920GWXFK	HPG3	HPG3	
698	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp056440.exe	MK003840GWXFL	HPG3	HPG3	
699	Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXR B, MK001920GZXRC and MK003840GZXRV Drives	cp055687.exe	MK000480GZXRA	HPG1	HPG1	
700	Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXR B, MK001920GZXRC and MK003840GZXRV Drives	cp055687.exe	MK000960GZXR B	HPG1	HPG1	
701	Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA, MK000960GZXR B, MK001920GZXRC and MK003840GZXRV Drives	cp055687.exe	MK001920GZXRC	HPG1	HPG1	
702	Online HDD/SSD Flash Component for Windows (x64) - MK000480GZXRA,	cp055687.exe	MK003840GZXRV	HPG1	HPG1	

	MK000960GZXR, MK001920GZXR and MK003840GZXR Drives					
703	Online HDD/SSD Flash Component for Windows (x64) - MM1000GFJTE Drive	cp052955.exe	MM1000GFJTE	HPG6 (B)	HPG6	
704	Online HDD/SSD Flash Component for Windows (x64) - MM2000GEFRA Drive	cp052954.exe	MM2000GEFRA	HPG9 (B)	HPG9	
705	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp052965.exe	VK000240GWSRQ	HPG4 (E)	HPG4	
706	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp052965.exe	VK000480GWSRR	HPG4 (E)	HPG4	
707	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp052965.exe	VK000960GWSRT	HPG4 (E)	HPG4	
708	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp052965.exe	VK001920GWSRU	HPG4 (E)	HPG4	
709	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp052965.exe	VK003840GWSRV	HPG4 (E)	HPG4	
710	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp059441.exe	VK000240GWTSV	HPG7 (B)	HPG7	
711	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp059441.exe	VK000480GWTTA	HPG7 (B)	HPG7	

712	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GW TTC, VK003840GWTTD, MK000480GWTT H, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp059441.exe	VK000960GWTTB	HPG7 (B)	HPG7	
713	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GW TTC, VK003840GWTTD, MK000480GWTT H, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp059441.exe	VK001920GW TTC	HPG7 (B)	HPG7	
714	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GW TTC, VK003840GWTTD, MK000480GWTT H, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp059441.exe	VK003840GWTTD	HPG7 (B)	HPG7	
715	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GW TTC, VK003840GWTTD, MK000480GWTT H, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp059441.exe	MK000480GWTT H	HPG7 (B)	HPG7	
716	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GW TTC, VK003840GWTTD, MK000480GWTT H, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp059441.exe	MK000960GWTTK	HPG7 (B)	HPG7	
717	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GW TTC, VK003840GWTTD, MK000480GWTT H, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp059441.exe	MK001920GWTTL	HPG7 (B)	HPG7	

718	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp059441.exe	MK003840GWTT N	HPG7 (B)	HPG7	
719	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWA, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	cp052976.exe	VK000240GXAWA	HPG1 (D)	HPG1	
720	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWA, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	cp052976.exe	VK000480GXAWK	HPG1 (D)	HPG1	
721	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWA, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	cp052976.exe	VK000960GXAWL	HPG1 (D)	HPG1	
722	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWA, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB,	cp052976.exe	VK001920GXAWN	HPG1 (D)	HPG1	

	MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives					
723	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	cp052976.exe	VK003840GXAWP	HPG1 (D)	HPG1	
724	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	cp052976.exe	VK007680GXAWQ	HPG1 (D)	HPG1	
725	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	cp052976.exe	MK000480GXAWF	HPG1 (D)	HPG1	
726	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWF, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	cp052976.exe	MK000960GXAXB	HPG1 (D)	HPG1	
727	Online HDD/SSD Flash	cp052976.exe	MK001920GXAW	HPG1 (D)	HPG1	

	Component for Windows (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives		R			
728	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	cp052976.exe	MK003840GXAW T	HPG1 (D)	HPG1	
729	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	cp052976.exe	VR000240GXBBL	HPG1 (D)	HPG1	
730	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP, VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives	cp052976.exe	MR000480GXBGH	HPG1 (D)	HPG1	
731	Online HDD/SSD Flash Component for Windows (x64) - VK000240GXAWE, VK000480GXAWK, VK000960GXAWL, VK001920GXAWN, VK003840GXAWP,	cp052976.exe	MR000960GXBGK	HPG1 (D)	HPG1	

	VK007680GXAWQ, MK000480GXAWF, MK000960GXAXB, MK001920GXAWR, MK003840GXAWT, VR000240GXBBL, MR000480GXBGH and MR000960GXBGK Drives					
732	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp055692.exe	VK000240GZXRU	HPG1	HPG1	
733	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp055692.exe	VK000480GZXRF	HPG1	HPG1	
734	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp055692.exe	VK000960GZXQU	HPG1	HPG1	
735	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp055692.exe	VK001920GZXQV	HPG1	HPG1	
736	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp055692.exe	VK003840GZXRH	HPG1	HPG1	
737	Online HDD/SSD Flash Component for Windows (x64) - VK000240GZXRU, VK000480GZXRF, VK000960GZXQU, VK001920GZXQV, VK003840GZXRH and VK007680GZXRT Drives	cp055692.exe	VK007680GZXRT	HPG1	HPG1	
738	Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	cp056238.exe	VK000480GZCNE	HPG3	HPG3	
739	Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF,	cp056238.exe	VK000960GZCNF	HPG3	HPG3	

	VK001920GZCNH and VK003840GZCNK Drives					
740	Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	cp056238.exe	VK001920GZCNH	HPG3	HPG3	
741	Online HDD/SSD Flash Component for Windows (x64) - VK000480GZCNE, VK000960GZCNF, VK001920GZCNH and VK003840GZCNK Drives	cp056238.exe	VK003840GZCNK	HPG3	HPG3	
742	Universal Firmware Package for Drives - MB002000GYDNK and MB004000GYDPD	Seagate_CimarronBP_SCIMARBPNTG1.fwpkg	Seagate-CimarronBP-SATA	HPG1	HPG1	新規追加
743	Universal Firmware Package for Drives - MB006000GYDNL, MB008000GYDPE and MB010000GYDNN	Seagate_CimarronBP_SCIMARBPETG1.fwpkg	Seagate-CimarronBP-SATA	HPG1	HPG1	新規追加
744	Universal Firmware Package for Drives - MK000480GYCNT ,MK000960GYCNP ,MK001920GYCNF ,MK003840GYCNQ ,VK000240GYCNU ,VK000480GYCNH ,VK000960GYCNK ,VK001920GYCNL ,VK003840GYCNN ,VK007680GYCNE ,VR000240GXPQT and VR000480GXPQU	Solidigm_S4X20_4IYY HPG3.fwpkg	Solidigm-S4X20-SATA	HPG3	HPG3	

6.2.15 Firmware - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
745	Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR216i-o Gen11 Tri Mode Controller	CP060400.zip	HPE_MR216i-o_Gen11	52.26.3.5379	52.26.3.5379	更新
746	Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR216i-p Gen11 Tri Mode Controller	CP060401.zip	HPE_MR216i-p_Gen11	52.26.3.5379	52.26.3.5379	更新
747	Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR408i-o Gen11 Tri Mode Controller	CP060402.zip	HPE_MR408i-o_Gen11	52.26.3.5379	52.26.3.5379	更新
748	Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR416i-o Gen11 Tri Mode Controller	CP060399.zip	HPE_MR416i-o_Gen11	52.26.3.5379	52.26.3.5379	更新
749	Controller Firmware Flash for ESXi7.0 and 8.0 - HPE MR416i-p Gen11 Tri Mode Controller	CP060398.zip	HPE_MR416i-p_Gen11	52.26.3.5379	52.26.3.5379	更新
750	Firmware Package - HPE Gen11 Boot Controller NS204i-u, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-p, NS204i-d, NS204i-t, NS204i-r	HPE_NS204i_Gen10P_Gen11_1.2.14.1013_A.fwpkg	HPE NS204i-u Boot Controller	1.2.14.1013	1.2.14.1013	更新
751	Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller	HPE_MR216i-o_Gen11_52.26.3-5379_A.fwpkg	HPE_MR216i-o_Gen11	52.26.3-5379	52.26.3-5379	更新
752	Firmware Package - HPE	HPE_MR216i-	HPE_MR216i-	52.26.3-	52.26.3-5379	更新

	MR216i-p Gen11 Tri Mode Controller	p_Gen11_52.26.3-5379_A.fwpkg	p_Gen11	5379		
753	Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller	HPE_MR408i-o_Gen11_52.26.3-5379_A.fwpkg	HPE_MR408i-o_Gen11	52.26.3-5379	52.26.3-5379	更新
754	Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller	HPE_MR416i-o_Gen11_52.26.3-5379_A.fwpkg	HPE_MR416i-o_Gen11	52.26.3-5379	52.26.3-5379	更新
755	Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller	HPE_MR416i-p_Gen11_52.26.3-5379_A.fwpkg	HPE_MR416i-p_Gen11	52.26.3-5379	52.26.3-5379	更新
756	Firmware Package - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408e-m, P204i-c, P416ie-m and P816i-a SR Gen10 and Gen11 controllers	HPE_SR_Gen10_6.52_B.fwpkg	HPE Smart Array E208e-p SR Gen10 Controller	6.52 (B)	6.52	更新
757	Firmware Package - HPE SR932i-p Gen10 Plus /SR416i-a Gen10 Plus/SR932i-p Gen11/SR416ie-m Gen11 Controllers	HPE_SR416_SR932_Gen10P_Gen11_03.01.23.072_A.fwpkg	HPE SR932i-p Gen11	03.01.23.072	03.01.23.072	

6.2.16 Firmware - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
758	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	P14.2.589.19_header.pldm.fwpkg	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	14.2.589.19	14.2.589.19	更新
759	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	P14.2.589.19_header.pldm.fwpkg	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.2.589.19	14.2.589.19	更新
760	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	P14.2.589.19_header.pldm.fwpkg	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.2.589.19	14.2.589.19	更新
761	HPE Firmware Flash for Emulex 32Gb and 64Gb Fibre Channel Host Bus Adapters	P14.2.589.19_header.pldm.fwpkg	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.2.589.19	14.2.589.19	更新
762	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2023.10.01-2.2.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2023.10.01 (b)	02.09.07	更新
763	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2023.10.01-2.2.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2023.10.01 (b)	02.09.07	更新
764	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Microsoft Windows Server 2019/2022 (x86_64)	cp058103.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2023.10.01	02.09.07	更新
765	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Microsoft Windows Server 2019/2022 (x86_64)	cp058103.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2023.10.01	02.09.07	更新
766	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP058100.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2023.10.01	02.09.07	更新

767	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP058100.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2023.10.01	02.09.07	更新
768	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 8.0	CP058101.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2023.10.01	02.09.07	更新
769	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 8.0	CP058101.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2023.10.01	02.09.07	更新

6.2.17 Firmware – System

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
770	Firmware Package - UBM2 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 Servers	HPE_UBM2_1.20_E.fwpkg	UBM2 Backplane PIC	1.20 (E)	1.20	
771	Firmware Package - UBM3 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage	HPE_UBM3_1.24_E.fwpkg	UBM3 Backplane PIC	1.24 (E)	1.24	
772	Firmware Package - UBM4 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage	HPE_UBM4_1.24_F.fwpkg	UBM4 Backplane PIC	1.24 (F)	1.24	
773	Firmware Package - UBM5 Backplane PIC PLDM Firmware for Gen11 servers usage	HPE_UBM5_1.10_A.fwpkg	UBM5 Backplane PIC	1.10	1.10	
774	Firmware Package - UBM6 Backplane PIC PLDM Firmware for Gen10/Gen10P/Gen11 servers usage	HPE_UBM6_1.04_A.fwpkg	UBM6 Backplane PIC	1.04	1.04	
775	Firmware Package - UBM7 Backplane PIC PLDM Firmware	HPE_UBM7_1.10_A.fwpkg	UBM7 Backplane PIC	1.10	1.10	更新
776	Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems	cp057166.exe	U63 ME Seamless Update Image	06.01.04.005.0	06.01.04.005	更新
777	Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems	cp057175.exe	U54 ME Seamless Update Image	06.01.04.005.0	06.01.04.005	更新
778	Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems	cp058592.exe	U59 ME Seamless Update Image	06.01.04.005.0	06.01.04.005	更新
779	Online ROM Flash	cp060406.exe	Server Platform	06.02.04.01	06.02.04.016.	更新

	Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems		Services Manageability Engine Firmware for U65	6.0 (B)	0	
780	Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems	firmware-u54sps-06.01.04.005.0-1.1.x86_64.rpm	U54 ME Seamless Update Image	06.01.04.005.0	06.01.04.005	更新
781	Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems	firmware-u59sps-06.01.04.005.0-1.1.x86_64.rpm	U59 ME Seamless Update Image	06.01.04.005.0	06.01.04.005	更新
782	Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems	firmware-u63sps-06.01.04.005.0-1.1.x86_64.rpm	U63 ME Seamless Update Image	06.01.04.005.0	06.01.04.005	更新
783	Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems	firmware-u65sps-06.02.04.016.0-2.1.x86_64.rpm	Server Platform Services Manageability Engine Firmware for U65	06.02.04.016.0 (B)	06.02.04.016.0	更新
784	ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems	OEM.SC_U54_ME_06.01.04.005.0.fwpkg	U54 ME Seamless Update Image	06.01.04.005.0	06.01.04.005	更新
785	ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems	OEM.SC_U59_ME_06.01.04.005.0.fwpkg	U59 ME Seamless Update Image	06.01.04.005.0	06.01.04.005	更新
786	ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the 4th Generation Intel Xeon Processor based systems	OEM.SC_U63_ME_06.01.04.005.0.fwpkg	U63 ME Seamless Update Image	06.01.04.005.0	06.01.04.005	更新
787	ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the Intel C262 PCH based systems	OEM.SC_U65_ME_06.02.04.016.0.fwpkg	Server Platform Services Firmware for DL20 ML30 MS Gen11	06.02.04.016.0 (B)	06.02.04.016	更新

6.2.18 Software - Lights-Out Management

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

6.2.19 Software - Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
790	HPE Agentless Management Bundle Smart Component on ESXi for Gen11 Servers	cp059816.zip	-	2024.03.01	701.11.6.0.3-1	更新
791	HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 7.0	cp050934.zip	-	2022.09.01	700.3.9.0.4-1	更新
792	HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 8.0	cp051152.zip	-	2022.09.01	800.3.9.0.30-1	更新
793	HPE iLO Driver Bundle Smart Component for ESXi 7.0	cp059540.zip	-	2024.03.00	700.10.8.2.2-1OEM.700.1.0.15843807	更新
794	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp058581.zip	HPE Smart Array E208e-p SR Gen10 Controller	2024.04.01	6.30.8.0-7.0.0	更新
795	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp058581.zip	HPE SR932i-p Gen11	2024.04.01	6.30.8.0-7.0.0	更新
796	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp058584.zip	HPE Smart Array E208e-p SR Gen10 Controller	2024.04.01	6.30.8.0-8.0.0	更新
797	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 8.0 for Gen10/Gen10 Plus/Gen11 Controllers	cp058584.zip	HPE SR932i-p Gen11	2024.04.01	6.30.8.0-8.0.0	更新

6.2.20 Software - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
798	HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers)	cp057488.zip	HPE_MR416i-o_Gen11	2023.12.01	007.2613.0000.0.0000-01	更新
799	HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers)	cp057488.zip	HPE_MR416i-p_Gen11	2023.12.01	007.2613.0000.0.0000-01	更新
800	HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers)	cp057488.zip	HPE_MR216i-o_Gen11	2023.12.01	007.2613.0000.0.0000-01	更新
801	HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers)	cp057488.zip	HPE_MR408i-o_Gen11	2023.12.01	007.2613.0000.0.0000-01	更新
802	HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers)	cp057488.zip	HPE_MR216i-p_Gen11	2023.12.01	007.2613.0000.0.0000-01	更新
803	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp057483.zip	HPE_MR416i-o_Gen11	2023.12.01	007.2613.0000.0.0000-01	更新
804	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp057483.zip	HPE_MR416i-p_Gen11	2023.12.01	007.2613.0000.0.0000-01	更新

	Gen11 Controllers)					
805	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp057483.zip	HPE_MR216i-o_Gen11	2023.12.01	007.2613.000 0.0000-01	更新
806	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp057483.zip	HPE_MR408i-o_Gen11	2023.12.01	007.2613.000 0.0000-01	更新
807	HPE MegaRAID Storage Administrator StorCLI for VMware8.0 (For Gen10P and Gen11 Controllers)	cp057483.zip	HPE_MR216i-p_Gen11	2023.12.01	007.2613.000 0.0000-01	更新

6.2.21 Software - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
808	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)	fibreutils-4.2-1_rhel.x86_64.rpm	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	4.2-1 (b)	4.2-1_rhel	
809	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)	fibreutils-4.2-1_rhel.x86_64.rpm	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	4.2-1 (b)	4.2-1_rhel	
810	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)	fibreutils-4.2-1_rhel.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	4.2-1 (b)	4.2-1_rhel	
811	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)	fibreutils-4.2-1_rhel.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	4.2-1 (b)	4.2-1_rhel	
812	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)	fibreutils-4.2-1_rhel.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	4.2-1 (b)	4.2-1_rhel	
813	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux - Red Hat Enterprise Linux (RHEL)	fibreutils-4.2-1_rhel.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	4.2-1 (b)	4.2-1_rhel	
814	HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server	HPE-CNA-FC-Emulex-Enablement-Kit-14.2.589.11-1.rhel8.x86_64.rpm	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	14.2.589.11	14.2.589.11-1.rhel8	更新
815	HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server	HPE-CNA-FC-Emulex-Enablement-Kit-14.2.589.11-1.rhel8.x86_64.rpm	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	14.2.589.11	14.2.589.11-1.rhel8	更新
816	HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server	HPE-CNA-FC-Emulex-Enablement-Kit-14.2.589.11-1.rhel8.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	14.2.589.11	14.2.589.11-1.rhel8	更新
817	HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server	HPE-CNA-FC-Emulex-Enablement-Kit-14.2.589.11-1.rhel8.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	14.2.589.11	14.2.589.11-1.rhel8	更新
818	HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64)	cp054346.exe	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
819	HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for	cp054346.exe	HPE SN1700E 64Gb Single Port Fibre Channel	1.0.0.1 (b)	1.0.0.1 (b)	更新

	Microsoft Windows Server 2019 (x86_64)		Host Bus Adapter			
820	HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64)	cp054346.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
821	HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64)	cp054346.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
822	HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64)	cp054345.exe	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
823	HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64)	cp054345.exe	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
824	HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64)	cp054345.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
825	HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64)	cp054345.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
826	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.0-4 (b)	1.0.0.0-4	
827	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.0-4 (b)	1.0.0.0-4	
828	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	1.0.0.0-4 (b)	1.0.0.0-4	
829	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	1.0.0.0-4 (b)	1.0.0.0-4	
830	HPE QLogic Fibre Channel driver component for VMware vSphere 7.0	cp058099.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2023.10.01	5.3.82.0-10EM.703.0.0.18644231	更新
831	HPE QLogic Fibre Channel driver component for VMware vSphere 7.0	cp058099.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2023.10.01	5.3.82.0-10EM.703.0.0.18644231	更新
832	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp058098.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2023.10.01	5.4.82.0-10EM.800.1.0.20613240	更新
833	HPE QLogic Fibre Channel driver component for VMware vSphere 8.0	cp058098.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2023.10.01	5.4.82.0-10EM.800.1.0.20613240	更新
834	HPE QLogic Fibre Channel Enablement Kit for Host Bus	HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.1-	HPE SN1610Q 32Gb 1-port Fibre	6.0.0.1-3	6.0.0.1-3	更新

	Adapter for Linux	3.noarch.rpm	Channel Host Bus Adapter			
835	HPE QLogic Fibre Channel Enablement Kit for Host Bus Adapter for Linux	HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.1-3.noarch.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	6.0.0.1-3	6.0.0.1-3	更新
836	HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2019 (x86_64)	cp054363.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
837	HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2019 (x86_64)	cp054363.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
838	HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2022 (x86_64)	cp054362.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
839	HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2022 (x86_64)	cp054362.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	1.0.0.1 (b)	1.0.0.1 (b)	更新
840	HPE QLogic Smart SAN Enablement kit for Linux	hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	3.3-3 (b)	3.3-3	
841	HPE QLogic Smart SAN Enablement kit for Linux	hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	3.3-3 (b)	3.3-3	
842	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0	cp054944.zip	HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	2023.06.01	14.2.567.0-10EM.700.1.0.15843807	更新
843	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0	cp054944.zip	HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	2023.06.01	14.2.567.0-10EM.700.1.0.15843807	更新
844	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0	cp054944.zip	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	2023.06.01	14.2.567.0-10EM.700.1.0.15843807	更新
845	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0	cp054944.zip	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	2023.06.01	14.2.567.0-10EM.700.1.0.15843807	更新

6.2.22 Software - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
846	Agentless Management Service (iLO 5, iLO 6) for Red Hat Enterprise Linux 9 Server	amsd-3.5.0-1803.58.rhel9.x86_64.rpm	-	3.5.0	3.5.0-1803.58.rhel9	更新
847	Agentless Management Service (iLO5, iLO 6) for Red Hat Enterprise Linux 8 Server	amsd-3.5.0-1803.25.rhel8.x86_64.rpm	-	3.5.0	3.5.0-1803.25.rhel8	更新
848	HPE Gen11 Agentless Management Service for Microsoft Windows x64	cp059648.exe	-	3.40.0.1	3.40.0.1	更新
849	HPE MegaRAID Storage Administrator for Linux 64-bit	MRStorageAdministrator-008.006.018.000-	HPE_MR416i-o_Gen11	8.6.18.0	008.006.018.000-00	更新

	(HPE MRSA for Gen10P and Gen11 Controllers)	00.x86_64.rpm				
850	HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.006.018.000-00.x86_64.rpm	HPE_MR416i-p_Gen11	8.6.18.0	008.006.018.000-00	更新
851	HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.006.018.000-00.x86_64.rpm	HPE_MR216i-o_Gen11	8.6.18.0	008.006.018.000-00	更新
852	HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.006.018.000-00.x86_64.rpm	HPE_MR408i-o_Gen11	8.6.18.0	008.006.018.000-00	更新
853	HPE MegaRAID Storage Administrator for Linux 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)	MRStorageAdministrator-008.006.018.000-00.x86_64.rpm	HPE_MR216i-p_Gen11	8.6.18.0	008.006.018.000-00	更新
854	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)	cp057493.exe	HPE_MR416i-o_Gen11	8.6.18.0	8.6.18.0	更新
855	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)	cp057493.exe	HPE_MR416i-p_Gen11	8.6.18.0	8.6.18.0	更新
856	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)	cp057493.exe	HPE_MR216i-o_Gen11	8.6.18.0	8.6.18.0	更新
857	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)	cp057493.exe	HPE_MR408i-o_Gen11	8.6.18.0	8.6.18.0	更新
858	HPE MegaRAID Storage Administrator for Windows 64-bit (HPE MRSA for Gen10P and Gen11 Controllers)	cp057493.exe	HPE_MR216i-p_Gen11	8.6.18.0	8.6.18.0	更新
859	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)	storcli-007.2613.0000.0000-1.noarch.rpm	HPE_MR416i-o_Gen11	007.2613.0000.0000	007.2613.0000.0000-1	更新
860	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)	storcli-007.2613.0000.0000-1.noarch.rpm	HPE_MR416i-p_Gen11	007.2613.0000.0000	007.2613.0000.0000-1	更新
861	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)	storcli-007.2613.0000.0000-1.noarch.rpm	HPE_MR216i-o_Gen11	007.2613.0000.0000	007.2613.0000.0000-1	更新
862	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)	storcli-007.2613.0000.0000-1.noarch.rpm	HPE_MR408i-o_Gen11	007.2613.0000.0000	007.2613.0000.0000-1	更新
863	HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen11 Controllers)	storcli-007.2613.0000.0000-1.noarch.rpm	HPE_MR216i-p_Gen11	007.2613.0000.0000	007.2613.0000.0000-1	更新
864	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp057489.exe	HPE_MR416i-o_Gen11	7.2613.0.0	7.2613.0.0	更新
865	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp057489.exe	HPE_MR416i-p_Gen11	7.2613.0.0	7.2613.0.0	更新

866	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp057489.exe	HPE_MR216i-o_Gen11	7.2613.0.0	7.2613.0.0	更新
867	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp057489.exe	HPE_MR408i-o_Gen11	7.2613.0.0	7.2613.0.0	更新
868	HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers)	cp057489.exe	HPE_MR216i-p_Gen11	7.2613.0.0	7.2613.0.0	更新
869	Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssacli-6.30-8.0.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	6.30.8.0	6.30-8.0	更新
870	Smart Storage Administrator (SSA) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssacli-6.30-8.0.x86_64.rpm	HPE SR932i-p Gen11	6.30.8.0	6.30-8.0	更新
871	Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp058578.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.30.8.0	6.30.8.0	更新
872	Smart Storage Administrator (SSA) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp058578.exe	HPE SR932i-p Gen11	6.30.8.0	6.30.8.0	更新
873	Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssa-6.30-8.0.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	6.30.8.0	6.30-8.0	更新
874	Smart Storage Administrator (SSA) for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssa-6.30-8.0.x86_64.rpm	HPE SR932i-p Gen11	6.30.8.0	6.30-8.0	更新
875	Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp058577.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.30.8.0	6.30.8.0	更新
876	Smart Storage Administrator (SSA) for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp058577.exe	HPE SR932i-p Gen11	6.30.8.0	6.30.8.0	更新
877	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssaducli-6.30-8.0.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	6.30.8.0	6.30-8.0	更新
878	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	ssaducli-6.30-8.0.x86_64.rpm	HPE SR932i-p Gen11	6.30.8.0	6.30-8.0	更新
879	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp058579.exe	HPE Smart Array E208e-p SR Gen10 Controller	6.30.8.0	6.30.8.0	更新
880	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit for Gen10/Gen10 Plus/Gen11 Controllers	cp058579.exe	HPE SR932i-p Gen11	6.30.8.0	6.30.8.0	更新

6.3 パッケージの変更内容

Online ROM Flash Component for Windows x64 - System ROM U54

Version: 2.16_03-01-2024 (Recommended)

Problems Fixed:

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

Enhancements:

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

Initiator.

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

Online ROM Flash Component for Windows x64 - System ROM U63

Version: 2.16_03-01-2024 (Recommended)

Problems Fixed:

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

- Addressed an issue where system might hang with SRIS of CPU PCIe port enabled.
- Addressed an issue where iLO web would not display the PCIe device installed on Slot 8 when the configuration includes a tertiary riser and Slot 8 is PCI Express x8.

Enhancements:

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

ROM Flash Firmware Package - System ROM U54

Version: 2.16_03-01-2024 (Recommended)

Problems Fixed:

- This revision of the System ROM includes the revision of the TPM2 Measure boot library update which provides mitigation for security vulnerabilities documented as CVE-2022-36763 and CVE-2022-36764.
- This revision of the System ROM includes the revision of the MiniZip Library update which provides mitigation for security vulnerabilities documented as CVE-2023-45853.
- This revision of the System ROM includes the revision of the EDK2 NetworkPkg IP stack implementation update which provides mitigation for security vulnerabilities documented as CVE-2023-45229, CVE-2023-45230, CVE-2023-45231, CVE-2023-45232, CVE-2023-45233, CVE-2023-45234, CVE-2023-45235, CVE-2023-45236, CVE-2023-45237.
- Addressed an issue where PCI slot information, Slot Physical width and Slot Pitch are not correct in the SMBIOS Type 9.

- Addressed an issue where the NUMA nodes are not assigned properly when Sub-NUMA Clustering is set 2 or 4.
- Addressed an issue where the operating system cannot detect the iSCSI hard drive through IPv6 installation.
- Addressed an issue where the version information of the System Programmable Logic Device may be displayed incorrectly in RBSU and iLO GUI.
- Addressed an issue where a Red Screen of Death (RSOD) may be seen during a system boot.
- Addressed an issue where the "Enabled Cores per Processor" in RBSU cannot be set greater than 56.
- Fixed an issue where Intel(R) Software Guard Extensions (SGX) Attestation may fail. Software Guard Extensions (SGX) is disabled by default.
- Fixed an issue where system would reboot when hot-adding NVMe drives in Linux with Intel(R) VMD Support enabled.
- Fixed an issue where the OCP retimer slot number was not correctly reported in SMBIOS type 216.
- Addressed an issue where system might hang with SRIS of CPU PCIe port enabled.
- Addressed an issue where iLO web would not display the PCIe device installed on Slot 8 when the configuration includes a tertiary riser and Slot 8 is PCI Express x8.

Enhancements:

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

ROM Flash Firmware Package - System ROM U63

Version: 2.16_03-01-2024 (Recommended)

Problems Fixed:

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

Enhancements:

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

Exchange.

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

Online ROM Flash Component for Windows x64 - System ROM U59

Version: 2.16_03-01-2024 (Recommended)

Problems Fixed:

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

- Addressed an issue where iLO web would not display the PCIe device installed on Slot 8 when the configuration includes a tertiary riser and Slot 8 is PCI Express x8.

Enhancements:

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

ROM Flash Firmware Package - System ROM U59

Version: 2.16_03-01-2024 (Recommended)

Problems Fixed:

- This revision of the System ROM includes the revision of the TPM2 Measure boot library update which provides mitigation for security vulnerabilities documented as CVE-2022-36763 and CVE-2022-36764.
- This revision of the System ROM includes the revision of the MiniZip Library update which provides mitigation for security vulnerabilities documented as CVE-2023-45853.
- This revision of the System ROM includes the revision of the EDK2 NetworkPkg IP stack implementation update which provides mitigation for security vulnerabilities documented as CVE-2023-45229, CVE-2023-45230, CVE-2023-45231, CVE-2023-45232, CVE-2023-45233, CVE-2023-45234, CVE-2023-45235, CVE-2023-45236, CVE-2023-45237.
- Addressed an issue where PCI slot information, Slot Physical width and Slot Pitch are not correct in the SMBIOS Type 9.
- Addressed an issue where the NUMA nodes are not assigned properly when Sub-NUMA Clustering is set

2 or 4.

- Addressed an issue where the operating system cannot detect the iSCSI hard drive through IPv6 installation.
- Addressed an issue where the version information of the System Programmable Logic Device may be displayed incorrectly in RBSU and iLO GUI.
- Addressed an issue where a Red Screen of Death (RSOD) may be seen during a system boot.
- Addressed an issue where the "Enabled Cores per Processor" in RBSU cannot be set greater than 56.
- Fixed an issue where Intel(R) Software Guard Extensions (SGX) Attestation may fail. Software Guard Extensions (SGX) is disabled by default.
- Fixed an issue where system would reboot when hot-adding NVMe drives in Linux with Intel(R) VMD Support enabled.
- Fixed an issue where the OCP retimer slot number was not correctly reported in SMBIOS type 216.
- Addressed an issue where system might hang with SRIS of CPU PCIe port enabled.
- Addressed an issue where iLO web would not display the PCIe device installed on Slot 8 when the configuration includes a tertiary riser and Slot 8 is PCI Express x8.

Enhancements:

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

Online ROM Flash Component for Windows x64 - iLO 6

Version: 1.58 (Recommended)

Problems Fixed:

- Fix for incorrect temperature sensor values and sensor indices reported by iLO SNMP interface.
- Fix for inconsistent physical drive status reported by iLO SNMP interface as compared with iLO GUI or Redfish interfaces.
- Support added for sending iLO AlertMail with TLS enabled, in conformance with RFC3207.
- Fix for configuring one time boot options via in-band and out-of-band IPMI methods.
- Fix for Web User interface being rendered inaccessible after the storage tab is clicked, in a server with large number of drives.
- Slowness due to continuously polling on timer expiry leading to increased CPU utilization.
- Added timestamp register call before iLO starts VSP logging to file to fix iLO VSP locks-up after an iLO reset if there is output displayed during the iLO reset.
- Firmware update fails through iLO web interface due to loss of network connectivity to iLO. You can now retry after 5 minutes when the network connectivity with iLO is restored.
- PSU firmware upgrade flashing failure for Titanium PSUs.
- Fix has been implemented to show right data in redfish, which includes to suppress additional SetObject name when adapter provides expanded data for GET operation in RDE.
- Excessive event issue is fixed when RDE and DCi coexist on the system on iLO 6.

Enhancements:

- OpenSSL upgraded.
- Support for TLS1.3 has been added.
- Storage Page enhanced to display storage enclosure, switch and port information in the topology.
- Configuration to allow disabling/enabling all weak ciphers and key lengths for SSH and TLS interfaces in Production security mode.
- Redfish includes direct attach backplane in Fabric collection.
- OpenSSL v1.0.2 in iLO FW is patched with Extended Master Secret support for TLS1.2.
- Gracefully handle multiple boot to UEFI commands in installset.
- Redfish includes direct attach backplane in chassis collection.
- Redfish includes downstream backplane in chassis collection.

Online ROM Flash Firmware Package - iLO 6

Version: 1.58 (Recommended)

Problems Fixed:

- Fix for incorrect temperature sensor values and sensor indices reported by iLO SNMP interface.
- Fix for inconsistent physical drive status reported by iLO SNMP interface as compared with iLO GUI or Redfish interfaces.
- Support added for sending iLO AlertMail with TLS enabled, in conformance with RFC3207.
- Fix for configuring one time boot options via in-band and out-of-band IPMI methods.

- Fix for Web User interface being rendered inaccessible after the storage tab is clicked, in a server with large number of drives.
- Slowness due to continuously polling on timer expiry leading to increased CPU utilization.
- Added timestamp register call before iLO starts VSP logging to file to fix iLO VSP locks-up after an iLO reset if there is output displayed during the iLO reset.
- Firmware update fails through iLO web interface due to loss of network connectivity to iLO. You can now retry after 5 minutes when the network connectivity with iLO is restored.
- PSU firmware upgrade flashing failure for Titanium PSUs.
- Fix has been implemented to show right data in redfish, which includes to suppress additional SetObject name when adapter provides expanded data for GET operation in RDE.
- Excessive event issue is fixed when RDE and DCi coexist on the system on iLO 6.

Enhancements:

- OpenSSL upgraded.
- Support for TLS1.3 has been added.
- Storage Page enhanced to display storage enclosure, switch and port information in the topology.
- Configuration to allow disabling/enabling all weak ciphers and key lengths for SSH and TLS interfaces in Production security mode.
- Redfish includes direct attach backplane in Fabric collection.
- OpenSSL v1.0.2 in iLO FW is patched with Extended Master Secret support for TLS1.2.
- Gracefully handle multiple boot to UEFI commands in installset.
- Redfish includes direct attach backplane in chassis collection.
- Redfish includes downstream backplane in chassis collection.

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

Version: 10.1.19485.8386 (B) (Recommended)

Enhancements

- Updated component name

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2019

Version: 228.0.121.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Broadcom Firmware Package for BCM5741x and BCM5750x adapters, version 228.1.111.0 or later, for use with this driver.

Fixes

- This product fixed CMDQ initialization race when coming out of sleep.
- This product fixed the NDSPI cleanup during driver unload.

Enhancements

- This product enhanced the resource cleanup during RDMA shutdown.
- This product enhanced the static analysis for PTP Hardware Timestamping.
- This product enhanced to allow user to configure timeout value for RoCE.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Broadcom NetXtreme-E Driver for Microsoft Windows Server 2022

Version: 228.0.121.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Broadcom Firmware Package for BCM5741x and BCM5750x adapters, version 228.1.111.0 or later, for use with this driver.

Fixes

- This product fixed CMDQ initialization race when coming out of sleep.
- This product fixed the NDSPI cleanup during driver unload.

Enhancements

- This product enhanced the resource cleanup during RDMA shutdown.
- This product enhanced the static analysis for PTP Hardware Timestamping.
- This product enhanced to allow user to configure timeout value for RoCE.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Broadcom NX1 1Gb Driver for Windows Server x64 Editions

Version: 221.0.5.0 (D) (Recommended)

Important Note!

HPE recommends the firmware provided in HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.4.0.0 or later, for use with this driver.

Enhancements

This product enhanced to update Driver Copyright Information.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T Adapter for HPE

- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM 5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T LOM Adapter for HPE

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

Version: 1.10.2-228.0.133.0 (Recommended)

Important Note!

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 228.1.111000 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 fixed an issue that bnxt_re library fails to compile with rdma-core v24.
- This product fixed shortage of resources for VFs even when L2 rings are reduced.
- This product fixed an issue that QoS config is not getting reinitialized at times after error recovery on the adapter with RoCE LAG configured.
- This product fixed an issue that VFs VNIC resource allocation is not in sync with the firmware.
- This product fixed UDP GSO feature to tunnel devices.
- This product fixed an issue that memory block from HWRM DMA pool is not released back to pool.
- This product fixed an issue that IOMMU address range overflow detection from driver and relevant prints.
- This product fixed an issue that all APP TLVs are not deleted when RoCE driver is unloaded with lossless TC changed to TC2.
- This product fixed max MTU setting for multi-buf XDP.
- This product fixed DKMS RPM packages failing to build driver.
- This product fixed IPSEC traffic with dynamic SPI is not hashing to all the queues.
- This product fixed an issue that bnxt_re driver fails to load on Wh+Firmware.
- This product fixed PCI I/O error detected while running ib_send_bw with huge pages.
- This Product fixed system crash observed on running ROCE+L2 IO with Virtual Function creation/deletion and triggering firmware error recovery.
- This product fixed host crash when adding/deleting filters with traffic.
- This product fixed an issue that port stop/start all in a loop triggers memory corruptions after couple of hundred iterations.
- This product fixed kernel crash when sriov is disabled while PF is being moved from switchdev to legacy back and forth in a loop and also while set channels (ring number change) is run in a loop.
- This product fixed a system crashed issue while running the roce hammer on wh+ with 8K perfest + 8k graf work QP's (kill and relaunch).

- This product fixed kernel panic when PHC UPDATE async event comes.

Enhancements

- This product enhanced to limit total number of combined rings across ports.
- This product enhanced to enable PPP mode push only when user needs inline send.
- This product enhanced to increase default number of rings on load.
- This product enhanced to restrict default rings to 16 if RDMA is enabled.
- This product enhanced to reduce default rings on NPAR Partitions.
- This product enhanced to add support removing or creating the bonding devices after VF being created.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

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

Version: 1.10.2-228.0.133.0 (Recommended)

Important Note!

- HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 228.1.111000 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 fixed an issue that bnxt_re library fails to compile with rdma-core v24.
- This product fixed shortage of resources for VFs even when L2 rings are reduced.
- This product fixed an issue that QoS config is not getting reinitialized at times after error recovery on the adapter with RoCE LAG configured.
- This product fixed an issue that VFs VNIC resource allocation is not in sync with the firmware.
- This product fixed UDP GSO feature to tunnel devices.
- This product fixed an issue that memory block from HWRM DMA pool is not released back to pool.
- This product fixed an issue that IOMMU address range overflow detection from driver and relevant prints.
- This product fixed an issue that all APP TLVs are not deleted when RoCE driver is unloaded with lossless TC changed to TC2.
- This product fixed max MTU setting for multi-buf XDP.
- This product fixed DKMS RPM packages failing to build driver.
- This product fixed IPSEC traffic with dynamic SPI is not hashing to all the queues.
- This product fixed an issue that bnxt_re driver fails to load on Wh+Firmware.

- This product fixed PCI I/O error detected while running `ib_send_bw` with huge pages.
- This Product fixed system crash observed on running ROCE+L2 IO with Virtual Function creation/deletion and triggering firmware error recovery.
- This product fixed host crash when adding/deleting filters with traffic.
- This product fixed an issue that port stop/start all in a loop triggers memory corruptions after couple of hundred iterations.
- This product fixed kernel crash when sriov is disabled while PF is being moved from switchdev to legacy back and forth in a loop and also while set channels (ring number change) is run in a loop.
- This product fixed a system crashed issue while running the roce hammer on wh+ with 8K perftest + 8k graf work QP's (kill and relaunch).
- This product fixed kernel panic when PHC UPDATE async event comes.

Enhancements

- This product enhanced to limit total number of combined rings across ports.
- This product enhanced to enable PPP mode push only when user needs inline send.
- This product enhanced to increase default number of rings on load.
- This product enhanced to restrict default rings to 16 if RDMA is enabled.
- This product enhanced to reduce default rings on NPAR Partitions.
- This product enhanced to add support removing or creating the bonding devices after VF being created.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0

Version: 2024.03.00 (Recommended)

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPOxxxx.xml file.
- HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 228.1.111000 or later, for use with this driver.

Fixes

- This product fixed checksum issues for tunnel packets in ENS (Enhanced Network Stack) mode.
- This product fixed VXLAN tunnel port config failure during driver reload.
- This product fixed invalid memory access when DCB mem alloc fails during driver load.
- This product fixed BFD (Bidirectional Forwarding Detection) control failures in NSX environment.
- This product fixed where Failing to bring up maximum number of VFs.

Enhancements

- This product now supports Update Driver logging as more generic.
- This product enhanced ENS driver to avoid blocking calls.
- This product enhanced to correct the logic to check link auto mode.
- This product now supports ens queue-stats Multiple queues.
- This product enhanced to avoid bnxtvm execution while unloading the driver.
- This product enhanced to update driver Installation section.
- This product enhanced to avoid potential race conditions while the hardware is trying to access freed memory.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 8.0

Version: 2024.03.00 (Recommended)

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibspot.hpe.com webpages, plus an HPE specific CPOxxxx.xml file.
- HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 228.1.111000 or later, for use with this driver.

Fixes

- This product fixed checksum issues for tunnel packets in ENS (Enhanced Network Stack) mode.
- This product fixed VXLAN tunnel port config failure during driver reload.
- This product fixed Invalid memory access when DCB mem alloc fails during driver load.
- This product fixed BFD (Bidirectional Forwarding Detection) control failures in NSX environment.
- This product fixed where Failing to bring up maximum number of VFs.

Enhancements

- This product now supports Update Driver logging as more generic.
- This product enhanced ENS driver to avoid blocking calls.
- This product enhanced to correct the logic to check link auto mode.
- This product now supports ens queue-stats Multiple queues.
- This product enhanced to avoid bnxtvm execution while unloading the driver.
- This product enhanced to update driver Installation section.
- This product enhanced to avoid potential race conditions while the hardware is trying to access freed memory.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8

Version: 3.139k-1 (Recommended)

Important Note!

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64, version 2.36.x or later, for use with these drivers.

Prerequisites

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

Enhancements

This product enhanced to implement power management.

Supported Devices and Features

These drivers support the following network adapters:

- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM 5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T LOM Adapter for HPE

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 9

Version: 3.139k-1 (Recommended)

Important Note!

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64, version 2.36.x or later, for use with these drivers.

Prerequisites

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

Enhancements

This product enhanced to implement power management.

Supported Devices and Features

These drivers support the following network adapters:

- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM 5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T LOM Adapter for HPE

HPE Intel iavf Drivers for Red Hat Enterprise Linux 8

Version: 4.9.1-1 (C) (Recommended)

Important Note!

HPE recommends the firmware provided below,

- HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.29.0 or later, for use with these drivers.
- Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.29.0 or later, for use with these drivers.
- Intel Firmware Package For E810, version 4.30 or later (version 4.31 for Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter), for use with these drivers.

Enhancements

- This product now supports allocating up to 256 transmit/receive queue pairs.
- This product now supports Red Hat Enterprise Linux 8.8.

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 iavf Drivers for Red Hat Enterprise Linux 9

Version: 4.9.1-1 (C) (Recommended)

Important Note!

HPE recommends the firmware provided below,

- HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.29.0 or later, for use with these drivers.
- Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.29.0 or later, for use with these drivers.
- Intel Firmware Package For E810, version 4.30 or later (version 4.31 for Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter), for use with these drivers.

Enhancements

- This product now supports allocating up to 256 transmit/receive queue pairs.
- This product now supports Red Hat Enterprise Linux 9.2.

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 8

Version: 6.14.16-1 (C) (Recommended)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.29.0 or later, for use with these drivers.

Enhancements

This product now supports Red Hat Enterprise Linux 8.8.

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 igb Drivers for Red Hat Enterprise Linux 9

Version: 5.14.16-1 (C) (Recommended)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.29.0 or later, for use with these drivers.

Enhancements

This product now supports Red Hat Enterprise Linux 9.2.

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 Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 8 Update 8 (x86_64)

Version: 23.10-1.1.9.1 (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 23.10-1.1.9.1:

- An error was triggered in case devlink reload was attempted when there were allocated subfunctions.
- Changing the steering mode to firmware steering was unsupported for policy IPsec rules.

Enhancements

No changes or new features included in version 23.10-1.1.9.1.

Supported Devices and Features

SUPPORTED KERNELS:

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

- 4.18.0-477.10.1.el8_8 (x86_64) and future update kernels.

HPE Mellanox RoCE (RDMA over Converged Ethernet) ConnectX-4, ConnectX-5 and ConnectX-6 Driver for Red Hat Enterprise Linux 9 Update 2 (x86_64)

Version: 23.10-1.1.9.1 (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 23.10-1.1.9.1:

- An error was triggered in case devlink reload was attempted when there were allocated subfunctions.

- Changing the steering mode to firmware steering was unsupported for policy IPsec rules.

Enhancements

No changes or new features included in version 23.10-1.1.9.1.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 9 update 2 (x86_64) supported by this binary rpm are:

- 5.14.0-284.11.1.el9_2 - (x86_64) and future update kernels.

Intel i350 Driver for Windows Server 2019

Version: 12.18.16.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.3.6.0 or later, for use with this driver.

Fixes

- This product correct an issue which fixes the device will be disabled and event ID 10400 after iPerf test.
- This product correct an issue which fixes link flapping while performing network traffic on the links of the network adapter.
- This product correct an issue which fixes unexpected transmission stop.

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: 13.0.16.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.3.6.0 or later, for use with this driver.

Fixes

- This product correct an issue which fixes the device will be disabled and event ID 10400 after iPerf test.
- This product correct an issue which fixes link flapping while performing network traffic on the links of the network adapter.

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 8

Version: 1.12.6-1 (C) (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package For E810, version 4.30 or later (version 4.31 for Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter), for use with these drivers.

Fixes

- This product correct an issue where the Linux Firmware update results in system hangs.
- This product correct an issue where when using certain DDP package versions, 802.1ad type VLANs might not be correctly enabled on SIOV or SR-IOV interfaces.
- This product correct a ptp4l kernel crash and several ptp related issues.
- This product correct an issue where the ice driver fails to remove the GNSS module properly on driver unload, resulting in a kernel panic.
- This product correct an issue where running traffic via Open vSwitch.
- This product correct an issue where a performance issue caused the GNSS write commands to be delayed and not delivered until the next commands appeared.
- This product correct an issue for Linux ice driver v1.7.16+ on E810 four-port devices where VF could not be created on certain high-core count platform.
- This product correct an issue where unloading a driver without a DDP profile would disable PF interfaces.

Enhancements

- This product now supports linux command to split port.
- This product now supports MSI-X vector allocation tuning by sysfs.
- This product now supports limiting the Maximum Bitrate for a Transmit Queue.
- This product now supports generic binary RPM starting from Red Hat Enterprise Linux 8.8.

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 ice Drivers for Red Hat Enterprise Linux 9

Version: 1.12.6-1 (B) (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package For E810, version 4.30 or later (version 4.31 for Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 MCLK Adapter), for use with these drivers.

Fixes

- This product correct an issue where the Linux Firmware update results in system hangs.
- This product correct an issue where when using certain DDP package versions, 802.1ad type VLANs might not be correctly enabled on SIOV or SR-IOV interfaces.
- This product correct a ptp4l kernel crash and several ptp related issues.
- This product correct an issue where the ice driver fails to remove the GNSS module properly on driver unload, resulting in a kernel panic.
- This product correct an issue where running traffic via Open vSwitch.
- This product correct an issue where a performance issue caused the GNSS write commands to be delayed and not delivered until the next commands appeared.
- This product correct an issue for Linux ice driver v1.7.16+ on E810 four-port devices where VF could not be created on certain high-core count platform.
- This product correct an issue where unloading a driver without a DDP profile would disable PF interfaces.

Enhancements

- This product now supports linux command to split port.
- This product now supports MSI-X vector allocation tuning by sysfs.
- This product now supports limiting the Maximum Bitrate for a Transmit Queue.
- This product now supports generic binary RPM starting from Red Hat Enterprise Linux 9.2.

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: 1.13.242.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package for Columbiaville (FWPKG), version 4.30 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with firmware of Columbiaville 4.3.

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: 1.13.242.0 (Recommended)

Important Note!

HPE recommends the firmware provided in Intel Firmware Package for Columbiaville (FWPKG), version 4.30 or later, for use with this driver.

Enhancements

This product enhanced the compatibility with firmware of Columbiaville 4.3.

Supported Devices and Features

This driver supports the following HPE Intel ICEA network adapters:

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

Intel icen Driver for VMware vSphere 7.0

Version: 2023.10.00 (Recommended)

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPOxxxx.xml file.
- HPE recommends the firmware provided in Intel Firmware Package For E810 Ethernet Adapter, version 4.30 or later, for use with these drivers.

Fixes

- This product correct an issue which fixes PSOD that the Netdump fail to sent to target vCenter Server.
- This product correct an issue which fixes high pNIC error that triggered by driver reporting EIPE error is a false alarm.

Supported Devices and Features

This product supports the following network adapters:

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

Intel icen Driver for VMware vSphere 8.0

Version: 2023.10.00 (Recommended)

Important Note!

- This component is intended to be used by HPE applications. It is a zip file that contains the same driver deliverable available from the vmware.com and the HPE vibstdepot.hpe.com webpages, plus an HPE specific CPOxxxxx.xml file.
- HPE recommends the firmware provided in Intel Firmware Package For E810 Ethernet Adapter, version 4.30 or later, for use with these drivers.

Fixes

- This product correct an issue which fixes PSOD that the Netdump fail to sent to target vCenter Server.
- This product correct an issue which fixes high pNIC error that triggered by driver reporting EIPE error is a false alarm.

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: 23.10.26252.0 (Recommended)

Fixes

This product fixed an issue that caused the collecting minidump process to crash while the device was initializing.

Supported Devices and Features

This driver supports the following network adapters:

- HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter
- 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: 23.10.26252.0 (Recommended)

Fixes

This product fixed an issue that caused the collecting minidump process to crash while the device was initializing.

Supported Devices and Features

This driver supports the following network adapters:

- HPE Ethernet 100Gb 2-Port QSFP56 MCX623106AS-CDAT Adapter
- 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: 2.1.0.30 (Recommended)

Enhancements

- Driver update

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

Version: 07.726.03.00 (Recommended)

Enhancements

New release for version 07.726.03.00.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 8 (64-bit) supported by this binary rpm are:

- 4.18.0-193.el8- Red Hat Enterprise Linux 8 Update 2 (64-bit) and future errata kernels for update 2.
- 4.18.0-240.el8- Red Hat Enterprise Linux 8 Update 3 (64-bit) and future errata kernels for update 3.

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

Version: 07.726.03.00 (Recommended)

Enhancements

New release for version 07.726.03.00.

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

Version: 2023.12.01 (Recommended)

Important Note!

- This new 7.26 release have not completed vSAN certification, please don't update for vSAN environment for now. Target to complete vSAN certification by end of February 2024.
- 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.

Enhancements

New release for version 7.726.02.00.

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

Version: 2023.12.01 (Recommended)

Important Note!

- This new 7.26 release have not completed vSAN certification, please don't update for vSAN environment for now. Target to complete vSAN certification by end of February 2024.
- 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.

Enhancements

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

Windows 2019 edition

Version: 7.726.1.0 (Recommended)

Enhancements

New release for version 7.726.1.0.

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

Version: 7.726.1.0 (Recommended)

Enhancements

New release for version 7.726.1.0.

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

Version: 2024.04.01 (Recommended)

Important Note!

- This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com, plus an HPE specific CPXXXX.xml file.
- Actual ESXi7.0 driver version is 70.4600.0.115

Enhancements Made changes to enhance the testability of the driver. Changes do not impact end customers.

8.0 (Driver Component).

Version: 2024.04.01 (Recommended)

Important Note!

- This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com, plus an HPE specific CPXXXX.xml file.
- Actual ESXi8.0 driver version is 80.4600.0.115

Enhancements

- Made changes to enhance the testability of the driver. Changes do not impact end customers.

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

Version: 2.1.26-030 (Recommended)

Fixes

- Fixed issue where the OS retained the size of the original logical drive after a logical drive size expansion operation, occurring under very rare conditions.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux8 (64-bit) supported by this binary rpm are:

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

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

Version: 2.1.26-030 (Recommended)

Fixes

- Fixed issue where the OS retained the size of the original logical drive after a logical drive size expansion operation, occurring under very rare conditions.

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 2016, Windows Server 2019 and Windows Server 2022

Version: 1010.84.0.1012 (Recommended)

Enhancements

- Fixed the inconsistent I/O errors observed in MPIO enabled physical drives during cable plug/unplug events in multipath scenarios.

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

Version: 14.2.537.0 (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.

Release notes:

Broadcom Release notes

Updated to driver version 14.2.537.0

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

```
elxdrv-fc-version.exe /q2 extract=2
```

The extracted files are located:

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

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

C:\Users\Administrator\Documents\Emulex\Drivers\FC-version\x64\win2019

Prerequisites

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

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

Enhancements

Updated to driver version 14.2.537.0

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

```
elxdrv-fc-version.exe /q2 extract=2
```

The extracted files are located:

```
C:\Users\Administrator\Documents\Emulex\Drivers\FC-version
```

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

```
C:\Users\Administrator\Documents\Emulex\Drivers\FC-version\x64\win2019
```

Supported Devices and Features

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

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

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

Version: 14.2.537.0 (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.

Release notes:

Broadcom Release notes

Updated to driver version 14.2.537.0

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

```
elxdrv-fc-version.exe /q2 extract=2
```

The extracted files are located:

```
C:\Users\Administrator\Documents\Emulex\Drivers\FC-version
```

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

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

Prerequisites

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

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

Enhancements

Updated to driver version 14.2.537.0

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

```
elxdrv-fc-version.exe /q2 extract=2
```

The extracted files are located:

```
C:\Users\Administrator\Documents\Emulex\Drivers\FC-version
```

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

Supported Devices and Features

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

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

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

Version: 9.4.9.21 (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 9.4.9.21

Supported Devices and Features

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

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

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

Version: 9.4.9.21 (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 9.4.9.21

Supported Devices and Features

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

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

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

Version: 10.02.11.00-k1 (Recommended)

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

NOTE:

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

Prerequisites

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

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

Fixes

The Driver Component is FIPs Enabled.

Enhancements

Updated to driver version 10.02.11.00-k1

The Driver component is FIPs enabled.

Supported Devices and Features

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

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

Red Hat Enterprise Linux 9 Update 2 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters

Version: 14.2.589.21 (Recommended)

Important Note!

Release Notes:

HPE Emulex Adapters Release Notes

Prerequisites

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

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

Fixes

The Driver Component is FIPs Enabled.

Enhancements

Updated to driver version 14.2.589.21

The Driver Component is FIPs Enabled.

Supported Devices and Features

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

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

Red Hat Enterprise Linux 9 Update 2 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters

Version: 10.02.11.00-k1 (Recommended)

Important Note!

Release Notes:

[HPE QLogic Adapters Release Notes](#)

NOTE:

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

Prerequisites

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

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

Fixes

The Driver Component is FIPs Enabled.

Enhancements

Updated to driver version 10.02.11.00-k1

The Driver component is FIPs enabled.

Supported Devices and Features

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

- 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

iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2019

Version: 4.7.1.0 (D) (Optional)

Enhancements

- Updated supported platforms

iLO 6 Automatic Server Recovery Driver for Microsoft Windows Server 2022

Version: 4.7.1.0 (D) (Optional)

Enhancements

- Updated supported platforms

iLO 6 Channel Interface Driver for Microsoft Windows Server 2019

Version: 4.7.1.0 (D) (Optional)

Enhancements

- Updated supported platforms

iLO 6 Channel Interface Driver for Microsoft Windows Server 2022

Version: 4.7.1.0 (D) (Optional)

Enhancements

- Updated supported platforms

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

Version: 9.15.1.248 (C) (Optional)

Enhancements

- Updated SBOM requirement

Broadcom Firmware Package for BCM5741x adapters

Version: 228.1.111.0 (Recommended)

Important Note!

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

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 228.0.121.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.2-228.0.133.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2024.03.00 or later

Fixes

- This product fixed the failure capture of connection status in IML log due to RDE entry not properly implemented.

- This product fixed the problem that some RDE address management properties could not be applied simultaneously.
- This product fixed the sequence to store PLDM Monitoring and Control events before BMC's SetEventReceiver command.
- This product fixed the problem of port Reset command not forcing 10G module to shut down link properly.
- This product fixed the problem of PFC flood if shutdown the system while running RoCE traffic.
- This product fixed the fix of NC-SI Get NC Capabilities and Settings response MaxPFs value.
- This product fixed the restriction of PF/VF bar sizes to valid values.
- This product fixed random Whp-livepatch failure due to out-of-order function.

Supported Devices and Features

This product supports the following network adapters:

Broadcom Firmware Package for BCM5750x adapters

Version: 228.1.111.0 (Recommended)

Important Note!

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

For Firmware compatibility during production, HPE recommends the drivers for use with the firmware Package product as below,

- Broadcom NetXtreme-E Driver for Microsoft Windows Server, version 228.0.121.0 or later
- HPE Broadcom NetXtreme-E Drivers for Linux, version 1.10.2-228.0.133.0 or later
- HPE Broadcom NetXtreme-E Drivers for VMware, version 2024.03.00 or later

Fixes

- This product fixed RoCE read_context HWRM fails for CQ.
- This product fixed SRv6 Tunnel Alloc failure.
- This product fixed NVRAM failure when simultaneous NVRAM reads and write/erase operations.
- This product fixed the problem of adding VF to VM resulted in the offloaded flows from being offloaded.
- This product fixed the problem of promisc filter not being removed if created with a default vlan.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE
- Broadcom BCM 57504 Ethernet 10/25Gb 4-port SFP28 OCP3 Adapter for HPE

Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64

Version: 2.36.0 (Recommended)

Important Note!

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

Prerequisites

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

Also, install the Out of Box (OOB) and ensure the driver is loaded and running before attempting the firmware update.

- Follow the command line to bring up ethernet device:

```
# ifup ethX or ifconfig ethX up or wicked ifup ethX
```

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.

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

Enhancements

This product now supports GetPackageStatus NCSI Command.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM 5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T LOM Adapter for HPE

Broadcom NX1 Online Firmware Upgrade Utility for VMware

Version: 1.37.0 (Recommended)

Important Note!

This software package contains combo image v20.28.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.48	21.6.2	1.5.52	21.6.66
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.48	21.6.2	1.5.52	21.6.66
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.48	21.6.2	1.5.52	21.6.66
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.42	21.6.2	1.5.49	21.6.66

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 GetPackageStatus NCSI Command.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE

- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T LOM Adapter for HPE

Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.4.0.0 (Recommended)

Important Note!

HPE recommends Broadcom NX1 1Gb Driver for Windows Server x64 Editions, version 221.0.5.0 (D) or later, for use with this firmware.

This software package contains combo image v20.28.41 with the following firmware versions:

NIC	Boot Code Version	PXE Version	NCSI Version	UEFI Version
BCM 5719 1GbE 4p BASE-T Adptr	1.48	21.6.2	1.5.52	21.6.66
BCM 5719 1GbE 4p BASE-T OCP3 Adptr	1.48	21.6.2	1.5.52	21.6.66
BCM 5719 1GbE 4p BASE-T LOM Adptr	1.48	21.6.2	1.5.52	21.6.66
BCM 5720 1GbE 2p BASE-T LOM Adptr	1.42	21.6.2	1.5.49	21.6.66

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 GetPackageStatus NCSI Command.

Supported Devices and Features

This product supports the following network adapters:

- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T OCP3 Adapter for HPE
- Broadcom BCM 5720 Ethernet 1Gb 2-port BASE-T LOM Adapter for HPE
- Broadcom BCM 5719 Ethernet 1Gb 4-port Base-T LOM Adapter for HPE

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

Version: 4.30 (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 1.13.242.0 or later
- Intel ice Drivers for Linux, version 1.12.6-1 or later
- Intel icen Driver for VMware, version 2023.10.00 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

Enhancements

This product enhanced the compatibility with icea 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: 4.30 (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 1.13.242.0 or later
- Intel ice Drivers for Linux, version 1.12.6-1 or later
- Intel icen Driver for VMware, version 2023.10.00 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

Enhancements

This product enhanced the compatibility with icea 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: 4.30 (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 1.13.242.0 or later
- Intel ice Drivers for Linux, version 1.12.6-1 or later
- Intel icen Driver for VMware, version 2023.10.00 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

Enhancements

This product enhanced the compatibility with icea 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: 4.30 (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 1.13.242.0 or later
- Intel ice Drivers for Linux, version 1.12.6-1 or later
- Intel icen Driver for VMware, version 2023.10.00 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

Enhancements

This product enhanced the compatibility with icea 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: 4.30 (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 1.13.242.0 or later
- Intel ice Drivers for Linux, version 1.12.6-1 or later
- Intel icen Driver for VMware, version 2023.10.00 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

Enhancements

This product enhanced the compatibility with icea 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: 1.29.0 (B) (Optional)

Prerequisites

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

Enhancements

- This product enhanced the compatibility with the latest drivers.
- This product enhanced the FIPs mode supported

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: 3.22.0 (Recommended)

Important Note!

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

NIC	EEPROM/NV M Version	OROM Version	NVM Version
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	800011F8	1.3429.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	800011EF	1.3429.0	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3429.0	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3429.0	N/A

The combo image v1.3429.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.51, 40GbE - v1.1.44 & UEFI Drivers: 1GbE - v9.8.33, 10GbE - v8.2.13, 40GbE - v4.9.70

Prerequisites

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

Fixes

This product addresses an issue where running the firmware update command (./Execute_Component -s) only updates the OROM.

Enhancements

This product enhanced the compatibility with the latest drivers.

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: 5.3.6.0 (Recommended)

Important Note!

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

NIC	EEPROM/NV M Version	OROM Version	NVM Version
Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter	800011F8	1.3429.0	N/A
Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter	800011EF	1.3429.0	N/A
Intel(R) I350 Gigabit Network Connection (2-port)	8000119C	1.3429.0	N/A
Intel(R) I350 Gigabit Network Connection (4-port)	8000119D	1.3429.0	N/A

The combo image v1.3429.0 includes: Boot Agent: 1GbE - v1.5.90, 10GbE - v2.4.51, 40GbE - v1.1.44 & UEFI Drivers: 1GbE - v9.8.33, 10GbE - v8.2.13, 40GbE - v4.9.70

Prerequisites

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

Enhancements

This product enhanced the compatibility with the latest drivers.

Supported Devices and Features

This package supports the following network adapters:

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

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

Important Note!

Disclaimer: Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation.

When downloading the NVIDIA software or documentation, 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/connectx6lxfirmwarev26391002/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 26.39.1002:

- Migration data corruption occurred when running parallel save_vhca_state/load_vhca_state commands on the same PF.

Enhancements

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

New features and changes included in version 26.39.1002:

- Updated the number of channels (ports) that are displayed in the iLO from 1 to 2 (num_channels_per_pkg=2) for dual port adapter cards.
- Added a locking mechanism to protect the firmware from a race condition between insertion and deletion of the same rule in parallel. Such behavior occasionally resulted in firmware accessing a memory that has already been released, thus causing IOMMU / translation error.

Note: This change will not impact insertion rate for tables owned by SW steering.

- Added a caching mechanism to improved expansion ROM performance and to avoid any slow boot occurrences when loading the expansion ROM driver.
- Added support for image size above 4GB when performing a live migration by splitting the image to chunks.
- Extended the role-based authentication to cover all crypto algorithms. Now the TLS, IPsec, MACsec, GCM, mem2mem, and NISP work when nv_crypto_conf.crypto_policy = CRYPTO_POLICY_FIPS_LEVEL_2, meaning all cryptographic engines can also work in wrapped mode and not only in plaintext mode.
- Programmable Congestion Control is now the default CC mechanism. ZTR_RTCC is the default CC algorithm when ECE is enabled and the CC algorithm negotiation succeeds, otherwise PCC DCQCN will be used.
- Added new support for reserved mkey index range. When enabled, a range of mkey indexes is reserved for mkey by name use.

Supported Devices and Features

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

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

Version: 26.39.1002 (Recommended)

Important Note!

Disclaimer: Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation.

When downloading the NVIDIA software or documentation, 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/connectx6lxfirmwarev26391002/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 26.39.1002:

- Migration data corruption occurred when running `parallel save_vhca_state/load_vhca_state` commands on the same PF.

Enhancements

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

New features and changes included in version 26.39.1002:

- Updated the number of channels (ports) that are displayed in the iLO from 1 to 2 (`num_channels_per_pkg=2`) for dual port adapter cards.
- Added a locking mechanism to protect the firmware from a race condition between insertion and deletion of the same rule in parallel. Such behavior occasionally resulted in firmware accessing a memory that has already been released, thus causing IOMMU / translation error.

Note: This change will not impact insertion rate for tables owned by SW steering.

- Added a caching mechanism to improved expansion ROM performance and to avoid any slow boot occurrences when loading the expansion ROM driver.
- Added support for image size above 4GB when performing a live migration by splitting the image to chunks.
- Extended the role-based authentication to cover all crypto algorithms. Now the TLS, IPsec, MACsec, GCM, mem2mem, and NISP work when `nv_crypto_conf.crypto_policy = CRYPTO_POLICY_FIPS_LEVEL_2`,

meaning all cryptographic engines can also work in wrapped mode and not only in plaintext mode.

- Programmable Congestion Control is now the default CC mechanism. ZTR_RTCC is the default CC algorithm when ECE is enabled and the CC algorithm negotiation succeeds, otherwise PCC DCQCN will be used.
- Added new support for reserved mkey index range. When enabled, a range of mkey indexes is reserved for mkey by name use.

Supported Devices and Features

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

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

Version: 20.40.1000 (Recommended)

Important Note!

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

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

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

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

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

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/connectx6firmwarev20401000/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 20.40.1000:

- RDE LLDPTxmit ChassisID was occasionally not represented correctly.

Enhancements

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

No New features or changes have been included in version 20.40.1000.

Supported Devices and Features

This software package contains the following firmware versions:

Mellanox InfiniBand Adapter	Firmware	Version	PSID
HPE InfiniBand HDR100/Ethernet 100Gb 2-port QSFP56 PCIe4 x16	MCX653106A-ECAT Adapter (P23666-B21 and P23666-H21)	20.40.1000	MT_0000000453

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

Version: 22.39.1002 (Recommended)

Important Note!

Disclaimer: Certain software including drivers and documents may be available from NVIDIA. If you select a URL that directs you to <http://www.nvidia.com/>, you are then leaving HPE.com. Please follow the instructions on <http://www.nvidia.com/> to download NVIDIA software or documentation.

When downloading the NVIDIA software or documentation, 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/connectx6dxfirmwarev22391002/known+issues>

Prerequisites

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

Fixes

The following issues have been fixed in version 22.39.1002:

- Migration data corruption occurred when running parallel save_vhca_state/load_vhca_state commands on the same PF.

Enhancements

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

New features and changes included in version 22.39.1002:

- Modified the TCP IPv4 flows so that the steering TIR rx_hash_symmetric field is now valid only when both the SRC and DST fields are not set to zero.
- Added a locking mechanism to protect the firmware from a race condition between insertion and deletion of the same rule in parallel. Such behavior occasionally resulted in firmware accessing a memory that has already been released, thus causing IOMMU / translation error. Note: This change will not impact insertion rate for tables owned by SW steering.
- Enabled live migration for virtio with mergeable buffer.
- Added a caching mechanism to improved expansion ROM performance and to avoid any slow boot occurrences when loading the expansion ROM driver.
- Added support for image size above 4GB when performing a live migration by splitting the image to chunks.
- Extended the role-based authentication to cover all crypto algorithms. Now the TLS, IPsec, MACsec, GCM, mem2mem, and NISP work when nv_crypto_conf.crypto_policy = CRYPTO_POLICY_FIPS_LEVEL_2, meaning all cryptographic engines can also work in wrapped mode and not only in plaintext mode.
- Programmable Congestion Control is now the default CC mechanism. ZTR_RTTCC is the default CC algorithm when ECE is enabled and the CC algorithm negotiation succeeds, otherwise PCC DCQCN will be used.
- Added new support for reserved mkey index range. When enabled, a range of mkey indexes is reserved for mkey by name use.

Supported Devices and Features

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

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

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

Version: 28.40.1000 (Recommended)

Important Note!

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

1. HPE signed PLDM Firmware Package (.FWPKG filename extension) updatable via iLO.
 2. Firmware binary (.bin filename extension) updatable via mstflint utility from the Operating System.
- Choose the appropriate firmware file format based on your preference and what suits your environment.

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/connectx7firmwarev28401000/known+issues>

Fixes

The following issues have been fixed in version 28.40.1000:

- Congestion Control did not work as expected when Global Route Headers (GRH) was used in traffic of an IB cluster.
- SPDM requests received when CPLD burn flow in progress were answered with incorrect responses.
- When ConnectX-7 adapter card was configured to use the Auto-Negotiation mode, 400G_8x linkup could not be raised.
- When performing a stress toggling on a ConnectX-7 adapter card that was connected to P65334-B21 cable and the speed is set to 100G_1x with interleaved FEC, a long linkup time of up to 5 minutes occurred.
- When raising a link using 200G optical cables while connecting a ConnectX-7 to a ConnectX-7, raising a link with width less than the maximum provided by the cable with speed 25G lane was not supported.
- When raising a link using 400G optical cables while connecting a ConnectX-7 to a ConnectX-7, raising a link with width less than the maximum provided by the cable with speed 50G or 25G lane was not supported.
- WoL packets did not work properly if sent to Unicast destination MAC.
- When performing PCIe link secondary-bus-reset, disable/enable or mlxfwreset on AMD based Genoa systems, the device took longer than expected to link up, due to a PCIe receiver termination misconfiguration.
- Disabling the Relaxed Ordered (RO) capability (`relaxed_ordering_read_pci_enabled=0`) using the `vhca_resource_manager` was not functional.

- In rare cases, linkup time of NDR and NDR200 with P49764-B21 transceiver took longer than 60 seconds.
- Selective-Repeat configuration issue which occasionally caused retransmission to wait for timeout instead of out-of-sequence NACK.
- The secondary ASIC run module init failed due to missing condition.
- The adapter cards' quad ports were kept UP when using breakout cables / QSFP-split-4.
- A rare race condition in NODNIC teardown that caused commands to hang on regular PF.

Enhancements

New features and changes included in version 28.40.1000:

- Socket Direct Single netdev Mapped to Two PCIe Devices: Enabled Single Netdev mapping to two PCIe devices (Socket Direct). Now multiple devices (PFs) of the same port can be combined under a single netdev instance. Traffic is passed through different devices belonging to different NUMA sockets, thus saving cross-NUMA traffic and allowing apps running on the same netdev from different NUMAs to still feel a sense of proximity to the device and achieve improved performance. The netdev is destroyed once any of the PFs is removed. A proper configuration would utilize the correct close NUMA when working on a certain app/CPU. Currently, this capability is limited to PFs only, and up to two devices (sockets). To enable the feature, one must configure the same Socket Direct group (non zero) for both PFs through mlxconfig SD_GROUP.
- Port Rate Limiting: Added a new access register (PBWS) to set the port maximum bandwidth to a value between 95% to 100%.
- Added support for egress ACL to the uplink by adding a new bit to the Set Flow Table Entry: allow_fdb_uplink_hairpin.
- Added support for live migration with MPV and IPSEC. This capability enables creating cross-vhca objects, however, they can only be created between affiliated GVMIs. If HCA_CAP.migratable bit is set, HCA_CAP.cross_vhca_object_to_object_supported and HCA_CAP.allowed_object_for_other_vhca_access refer to affiliated VHCA's only.
- Added back the Digital Feedforward Equalizer (DFFE) hardware component to improve the signal integrity link.
- Enabled the lowest minimum rate for SW DCQCN to enable congestion control to hold a larger amount of QPs without pauses or drops.
- Modified PCIe switch downstream port EQLZ.PH1 timing to 3ms.

Supported Devices and Features

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

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

Version: HPK5 (Recommended)

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Prioritize disabling Non-Fatal Error reporting at the beginning of FLR processing.
- Fix known FW bug PI/CI indexing issue.
- Support firmware flash in OS FIPS enabled mode.

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

Version: HPK5 (Recommended)

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Prioritize disabling Non-Fatal Error reporting at the beginning of FLR processing
- Fix known FW bug PI/CI indexing issue

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

Version: HPK5 (Recommended)

Important Note!

- Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Fixes

- Prioritize disabling Non-Fatal Error reporting at the beginning of FLR processing
- Fix known FW bug PI/CI indexing issue

Universal Firmware Package for Drives - VV001920LYDTT, VV003840LYDTU and VV007680LYDTV

Version: HPK6 (Recommended)

Fixes

To eliminate the risk of gen drop issue.

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

Version: HPD2 (Recommended)

Important Note!

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

Fixes

- Assert fixes, logging enhancements and all current firmware improvements and bug fixes.
- Support firmware flash in OS FIPS enabled mode.

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

Version: HPD3 (Recommended)

Important Note!

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

Fixes

- Assert fixes, logging enhancements and all current firmware improvements and bug fixes.
- Support firmware flash in OS FIPS enabled mode.

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

Version: HPD4 (Recommended)

Important Note!

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

Fixes

- Improves performance in certain file systems and implements fixes for several of the previous firmware's shortcomings.
- The risk of not upgrading to this firmware is the increased possibility of data corruption in certain error and timing conditions.
- Several maintenance items are included in this firmware revision that reduce the probability of hangs.
- Support firmware flash in OS FIPS enabled mode.

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

Version: HPD3 (B) (Recommended)

Important Note!

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

Fixes

- High Security Enablement support FIPs

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

Version: HPD8 (Recommended)

Important Note!

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

Fixes

- Fix for unrecovered errors which may occur on the targeted Blocks of Wear-leveling process when host issues Read command.
- Support firmware flash in OS FIPS enabled mode.

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

Version: HPD3 (Recommended)

Important Note!

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

Fixes

- Assert fixes, logging enhancements and all current firmware improvements and bug fixes.

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

Version: HPD2 (Recommended)

Important Note!

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

Fixes

- Assert fixes, logging enhancements and all current firmware improvements and bug fixes.

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

Version: HPD4 (Recommended)

Important Note!

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

Fixes

- Improves performance in certain file systems and implements fixes for several of the previous firmware's shortcomings.
- The risk of not upgrading to this firmware is the increased possibility of data corruption in certain error and timing conditions.
- Several maintenance items are included in this firmware revision that reduce the probability of hangs.

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

Version: HPD3 (Recommended)

Fixes

- Firmware contains fix for bug that may cause drive to perform self-initiated reset in systems where maximum queue depth of 128 is exceeded.

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

Version: HPD8 (Recommended)

Important Note!

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

Fixes

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

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

Version: HPD3 (Recommended)

Important Note!

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

Fixes

- Assert fixes, logging enhancements and all current firmware improvements and bug fixes.

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

Version: HPD4 (Recommended)

Important Note!

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

Fixes

- Improves performance in certain file systems and implements fixes for several of the previous firmware's shortcomings.
- The risk of not upgrading to this firmware is the increased possibility of data corruption in certain error and timing conditions.
- Several maintenance items are included in this firmware revision that reduce the probability of hangs.

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

Version: HPD3 (Recommended)

Fixes

- Firmware contains fix for bug that may cause drive to perform self-initiated reset in systems where maximum queue depth of 128 is exceeded.

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

Version: HPD2 (Recommended)

Important Note!

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

Fixes

- Assert fixes, logging enhancements and all current firmware improvements and bug fixes.

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

Version: HPD8 (Recommended)

Important Note!

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

Fixes

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

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

Version: HPG2 (Recommended)

Important Note!

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

Fixes

- Update maximum continuous operation temperature values for host thermal management and reporting.
- Assert fixes, logging enhancements and all current firmware improvements.
- Support firmware flash in OS FIPS enabled mode.

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

Version: HPG2 (Recommended)

Important Note!

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

Fixes

- Update maximum continuous operation temperature values for host thermal management and reporting.
- Assert fixes, logging enhancements and all current firmware improvements.
- Support firmware flash in OS FIPS enabled mode.

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

rpm/RPMS/x86_64/firmware-hdd-e0171a2936-HPG4-1.1.x86_64.rpm

Important Note!

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

Fixes

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

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

Version: HPG2 (Recommended)

Important Note!

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

Fixes

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

- Assert fixes, logging enhancements and all current firmware improvements.

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

Version: HPG2 (Recommended)

Important Note!

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

Fixes

- Update maximum continuous operation temperature values for host thermal management and reporting.
- Assert fixes, logging enhancements and all current firmware improvements.

Online HDD/SSD Flash Component for VMware ESXi - MB012000GZVVT, MB014000GZVU, MB016000GZVV and MB018000GYCLL Drives

Version: HPG4 (Recommended)

Important Note!

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

Fixes

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

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

Version: HPG2 (Recommended)

Important Note!

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

Fixes

- Update maximum continuous operation temperature values for host thermal management and reporting.
- Assert fixes, logging enhancements and all current firmware improvements.

Online HDD/SSD Flash Component for Windows (x64) - MB012000GZYVT, MB014000GZVU, MB016000GZYVV and MB018000GYCLL Drives

Version: HPG4 (Recommended)

Important Note!

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

Fixes

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

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

Version: HPG2 (Recommended)

Important Note!

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

Fixes

- Update maximum continuous operation temperature values for host thermal management and reporting.
- Assert fixes, logging enhancements and all current firmware improvements.

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

Version: 52.26.3.5379 (Critical)

Fixes

Fix an issue that JBOD LED locate from host tools not working properly.

Enhancements

Handle outstanding host commands during firmware flash. This enhancement resolves the potential firmware brick issue in a00136673en_us.

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

Version: 52.26.3.5379 (Critical)

Fixes

Fix an issue that JBOD LED locate from host tools not working properly.

Enhancements

Handle outstanding host commands during firmware flash. This enhancement resolves the potential firmware brick issue in a00136673en_us.

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

Version: 52.26.3.5379 (Critical)

Fixes

Fix an issue that JBOD LED locate from host tools not working properly.

Enhancements

Handle outstanding host commands during firmware flash. This enhancement resolves the potential firmware brick issue in a00136673en_us.

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

Version: 52.26.3.5379 (Critical)

Fixes

Fix an issue that JBOD LED locate from host tools not working properly.

Enhancements

Handle outstanding host commands during firmware flash. This enhancement resolves the potential firmware brick issue in a00136673en_us.

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

Version: 52.26.3.5379 (Critical)

Fixes

Fix an issue that JBOD LED locate from host tools not working properly.

Enhancements

Handle outstanding host commands during firmware flash. This enhancement resolves the potential firmware brick issue in a00136673en_us.

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

Version: 6.52 (B) (Recommended)

Enhancements

Support DL20 and ML30 Gen10 server.

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

Version: 1.2.14.1013 (Recommended)

Important Note!

Current firmware has to be 1.0.14.1063 or later in order to enable PLDM firmware update functionality for the controller. Please find the smart component versions of 1.0.14.1063 in below link:

- Windows: <https://www.hpe.com/global/swpublishing/MTX-be195b2891724ec8bb72c8bb2>
- Linux: <https://www.hpe.com/global/swpublishing/MTX-269e14d0e2524277bf699f433>
- Vmware: <https://www.hpe.com/global/swpublishing/MTX-1ffaca997cf248cd9f832a04c6>

Prerequisites

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

Fixes

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

Enhancements

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

- Add StorageController.ControllerRates and Volume.DisplayName for Redfish PATCH

Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller

Version: 52.26.3-5379 (Critical)

Important Note!

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

Prerequisites

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

Fixes

Fix an issue that JBOD LED locate from host tools not working properly.

Enhancements

Handle outstanding host commands during firmware flash. This enhancement resolves the potential firmware brick issue in a00136673en_us.

Firmware Package - HPE MR216i-p Gen11 Tri Mode Controller

Version: 52.26.3-5379 (Critical)

Important Note!

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

Prerequisites

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

Fixes

Fix an issue that JBOD LED locate from host tools not working properly.

Enhancements

Handle outstanding host commands during firmware flash. This enhancement resolves the potential firmware brick issue in a00136673en_us.

Firmware Package - HPE MR408i-o Gen11 Tri Mode Controller

Version: 52.26.3-5379 (Critical)

Important Note!

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

Prerequisites

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

Fixes

Fix an issue that JBOD LED locate from host tools not working properly.

Enhancements

Handle outstanding host commands during firmware flash. This enhancement resolves the potential firmware brick issue in a00136673en_us.

Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller

Version: 52.26.3-5379 (Critical)

Important Note!

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

Prerequisites

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

Fixes

Fix an issue that JBOD LED locate from host tools not working properly.

Enhancements

Handle outstanding host commands during firmware flash. This enhancement resolves the potential firmware brick issue in a00136673en_us.

Firmware Package - HPE MR416i-p Gen11 Tri Mode Controller

Version: 52.26.3-5379 (Critical)

Important Note!

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

Prerequisites

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

Fixes

Fix an issue that JBOD LED locate from host tools not working properly.

Enhancements

Handle outstanding host commands during firmware flash. This enhancement resolves the potential firmware brick issue in a00136673en_us.

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

Version: 14.2.589.19 (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.

Release notes:

Broadcom Release notes

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	14.2.589.19	14.2.589.19	14.2.589.16	14.2.566.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.19	14.2.589.19	14.2.589.16	14.2.566.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.2.589.19	14.2.589.19	14.2.589.16	14.2.566.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.2.589.19	14.2.589.19	14.2.589.16	14.2.566.0

Prerequisites

The minimum version for adapter to support PLDM is 14.0.499.25

Enhancements

This Firmware package contains following firmware versions:

Adapter	Speed	Universal Boot Image	Firmware	UEFI	Boot Bios
HPE SN1610E 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.19	14.2.589.19	14.2.589.16	14.2.566.0
HPE SN1610E 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	14.2.589.19	14.2.589.19	14.2.589.16	14.2.566.0
HPE SN1700E 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	14.2.589.19	14.2.589.19	14.2.589.16	14.2.566.0
HPE SN1700E 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	14.2.589.19	14.2.589.19	14.2.589.16	14.2.566.0

Supported Devices and Features

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

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

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)

Version: 2023.10.01 (b) (Recommended)

Important Note!

This component is FIPs enabled.

This component is supported only on Gen11 ProLiant servers.

Release Notes:

HPE QLogic Adapters Release Notes

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0

Prerequisites

Firmware updates may be accomplished using the inbox or Out of Box (OOB) drivers. Please consult SPOCK for a list of supported configurations available at the following link:

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

The target environment must have the libHBAAPI Package installed prior to the installation of the firmware as the discovery of adapters might not complete without the library. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

The HPE supplied enablement kit must be installed prior to this firmware component being identified by SUM for deployment.

The OOB driver and enablement kit are available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download>.

- It is advised to provide read-write permissions on /var/tmp folder. Firmware deployment via Service Pack for ProLiant(SPP) might be unsuccessful in some cases , if read-write(rw) permissions are not enable on /tmp or /var/tmp directories.

Fixes

This component is FIPs enabled.

Enhancements

This Firmware package contains following firmware versions:

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	02.09.07	09.14.01	7.36	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0

Supported Devices and Features

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

- 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 Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Microsoft Windows Server 2019/2022 (x86_64)

Version: 2023.10.01 (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.

Release Notes:

HPE QLogic Adapters Release Notes

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0

Prerequisites

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

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

The OOB driver is available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download>.

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	02.09.07	09.14.01	7.36	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0

Supported Devices and Features

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

- 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 Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0

Version: 2023.10.01 (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.

Release Notes:

HPE QLogic Adapters Release Notes

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0

Prerequisites

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

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

The HPE supplied Qlogic driver must be installed prior to this firmware component being identified by SUM for deployment. The OOB driver is available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download/>

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	02.09.07	09.14.01	7.36	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0

Supported Devices and Features

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

- 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 Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 8.0

Version: 2023.10.01 (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.

Release Notes:

HPE QLogic Adapters Release Notes

This Firmware package contains following firmware versions:

Adapter	Speed	MBI	Firmware	UEFI	Boot Bios
HPE SN1610Q 32Gb Dual Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0

Prerequisites

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

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

The HPE supplied Qlogic driver must be installed prior to this firmware component being identified by SUM for deployment. The OOB driver is available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download/>

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	02.09.07	09.14.01	7.36	0.0
HPE SN1610Q 32Gb Single Port Fibre Channel Host Bus Adapter	32Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Dual Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0
HPE SN1700Q 64Gb Single Port Fibre Channel Host Bus Adapter	64Gb	02.09.07	09.14.01	7.36	0.0

Supported Devices and Features

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

- 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

Firmware Package - UBM7 Backplane PIC PLDM Firmware

Version: 1.10 (Recommended)

Important Note!

Flash FWPKG Component on Web Standalone mode

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

Fixes

Fix i2c issues

- DFC idx not updated
- unexpected checksum error

Enhancements

Refine CMD 40 SES content.

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

Version: 06.01.04.005.0 (Recommended)

Enhancements

Version 06.01.04.005.0 firmware

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

Version: 06.01.04.005.0 (Recommended)

Enhancements

Version 06.01.04.005.0 firmware

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

Version: 06.01.04.005.0 (Recommended)

Enhancements

Version 06.01.04.005.0 firmware

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

Version: 06.02.04.016.0 (B) (Recommended)

Enhancements

Version 06.02.04.016.0 firmware

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

Version: 06.01.04.005.0 (Recommended)

Enhancements

Version 06.01.04.005.0 firmware

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

Version: 06.01.04.005.0 (Recommended)

Enhancements

Version 06.01.04.005.0 firmware

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

Version: 06.01.04.005.0 (Recommended)

Enhancements

Version 06.01.04.005.0 firmware

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

Version: 06.02.04.016.0 (B) (Recommended)

Enhancements

Version 06.02.04.016.0 firmware

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

Version: 06.01.04.005.0 (Recommended)

Enhancements

Version 06.01.04.005.0 firmware

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

Version: 06.01.04.005.0 (Recommended)

Enhancements

Version 06.01.04.005.0 firmware

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

Version: 06.01.04.005.0 (Recommended)

Enhancements

Version 06.01.04.005.0 firmware

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

Version: 06.02.04.016.0 (B) (Recommended)

Enhancements

Version 06.02.04.016.0 firmware

HPE Agentless Management Bundle Smart Component on ESXi for Gen11 Servers

Version: 2024.03.01 (Recommended)

Fixes

Agentless Management Service

- Fixed OID name hrSystemUptime is reported incorrectly

HPE iLO Driver Bundle Smart Component for ESXi 7.0

Version: 2024.03.00 (Recommended)

Fixes

This product addressed a memory leak in vmkernel.

Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0 for Gen10/Gen10 Plus/Gen11 Controllers

Version: 2024.04.01 (Recommended)

Important Note!

- Actual ESXi7.0 ssacli version is 6.30.8.0

Fixes

- Fixed issue of ADU report generation when using SSADUESXI within the VMWare ESXi system.
- Fixed the display issue with physical drives in the enclosure under the multipath configuration.
- Fixed issue where the tool allowed the Heal array operation on RMSED secured arrays when KMS is not active.
- Fixed issue where the tools would allow users to attempt Change Drive Type operations with 512/512e drives for 4Kn logical volumes.
- Fixed issue where users specified an incorrect encryption mode for a logical volume that did not match the existing mode on the array.

- Fixed issue where the operation to revert the SEDs to Original Factory State (OFS) was not being blocked when KMS is not available in remote SED mode.
- Fixed the volume creation issue when users specify the 'volatileencryptionkey' option while the Controller setting does not support it.
- Fixed issue of error message occurring when using the 'create type=arrayR0' command with 'drives=' and 'drivetype=' options.
- Fixed installation issue encountered when attempting to downgrade SSACLI from versions 6.30.X.X to 6.15.X.X or 6.20.X.X.

Enhancements

- Added command to support the erasure of logs and events stored in the controller.
- Added command to support spare spin down policy setting if the feature is supported.

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

Controllers

Version: 2024.04.01 (Recommended)

Important Note!

- Actual ESXi8.0 ssacli version is 6.30.8.0

Fixes

- Fixed issue of ADU report generation when using SSADUESXI within the VMWare ESXi system.
- Fixed the display issue with physical drives in the enclosure under the multipath configuration.
- Fixed issue where the tool allowed the Heal array operation on RMSED secured arrays when KMS is not active.
- Fixed issue where the tools would allow users to attempt Change Drive Type operations with 512/512e drives for 4Kn logical volumes.
- Fixed issue where users specified an incorrect encryption mode for a logical volume that did not match the existing mode on the array.
- Fixed issue where the operation to revert the SEDs to Original Factory State (OFS) was not being blocked when KMS is not available in remote SED mode.
- Fixed the volume creation issue when users specify the 'volatileencryptionkey' option while the Controller setting does not support it.
- Fixed issue of error message occurring when using the 'create type=arrayR0' command with 'drives=' and 'drivetype=' options.
- Fixed installation issue encountered when attempting to downgrade SSACLI from versions 6.30.X.X to 6.15.X.X or 6.20.X.X.

Enhancements

- Added command to support the erasure of logs and events stored in the controller.
- Added command to support spare spin down policy setting if the feature is supported.

HPE MegaRAID Storage Administrator StorCLI for VMware7.0 (For Gen10P and Gen11 Controllers)

Version: 2023.12.01 (Recommended)

Enhancements

- Support autoconfig command.
storcli /cx set autoconfig = < none | JBOD >
- Added a new option [ReuseTargetId] to add vd command. If "ReuseTargetId" is mentioned in the add vd command, the FW will allow reusing of TargetIDs without 120 seconds delay.
- Added support for UBM7 backplanes.

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

Version: 2023.12.01 (Recommended)

Enhancements

- Support autoconfig command.
storcli /cx set autoconfig = < none | JBOD >
- Added a new option [ReuseTargetId] to add vd command. If "ReuseTargetId" is mentioned in the add vd command, the FW will allow reusing of TargetIDs without 120 seconds delay.
- Added support for UBM7 backplanes.

HPE QLogic Fibre Channel driver component for VMware vSphere 7.0

Version: 2023.10.01 (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 supported on VMware 7.0U3 only

Prerequisites

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

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

Enhancements

Driver version 5.3.82.0

This Driver is supported on VMware 7.0U3 only

Supported Devices and Features

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

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

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

HPE QLogic Fibre Channel driver component for VMware vSphere 8.0

Version: 2023.10.01 (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.

Prerequisites

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

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

Enhancements

Driver version 5.4.82.0

Supported Devices and Features

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

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

HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0

Version: 2023.06.01 (Recommended)

Important Note!

This component is supported only on Gen11 ProLiant servers.

Release notes:

Broadcom 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.

Updated to Driver version 14.2.567.0

Prerequisites

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

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

Enhancements

Updated to Driver version 14.2.567.0

Supported Devices and Features

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

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

HPE Emulex Fibre Channel Enablement Kit for Host Bus Adapters for Red Hat Enterprise Linux 8 Server

Version: 14.2.589.11 (Recommended)

Important Note!

Release notes:

Broadcom Release notes

Note:

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Prerequisites

The target environment must have the libHBAAPI Package installed prior to the installation of the enablement kit. (If not already present, the libHBAAPI Package can be obtained from the operating system installation media.)

Fixes

The Enablement Kit is FIPs Enabled

Enhancements

Updated to version 14.2.589.11-1

The Enablement Kit is FIPs enabled.

Supported Devices and Features

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

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

HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2019 (x86_64)

Version: 1.0.0.1 (b) (Optional)

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occurred.

Obtain Smart SAN User Guide for 3PAR at following link: [HPE Smart SAN for 3PAR 2.0 User Guide](#)

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The latest Emulex FC driver 14.0.534.0 is available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download/>

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

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

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

HPE Emulex Fibre Channel Smart SAN Enablement Kit for Host Bus Adapters for Microsoft Windows Server 2022 (x86_64)

Version: 1.0.0.1 (b) (Optional)

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occurred.

Obtain Smart SAN User Guide for 3PAR at following link: [HPE Smart SAN for 3PAR 2.0 User Guide](#)

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver
v14.0.534.0 cp054344.exe

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

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

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

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

Version: 6.0.0.1-3 (Recommended)

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

The Enablement Kit requires that the target environment have the libHBAAPI package installed from your OS installation media.

The Linux Enablement kit has been changed from "HP-CNA-FC-hpqlgc-Enablement-Kit" to "HPE-CNAFC-hpeqlgc-Enablement-Kit". Upgrade from the older released Enablement kit is supported. However downgrade to earlier version "HP-CNA-FC-hpqlgc-Enablement-Kit" may not be successful and may report conflicts.

Workaround : Please uninstall the Enablement kit and install the older versions

Example: rpm -Uvh HPE-CNA-FC-hpeqlgc-Enablement-Kit-<version>.noarch.rpm --force --nodeps

Prerequisites

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

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

The Enablement Kit requires that the target environment have the libHBAAPI package installed from your OS installation media.

Fixes

The Enablement Kit is FIPs Enabled

Enhancements

Updated the kit to version 6.0.0.1-3

The Enablement Kit is FIPs enabled.

Supported Devices and Features

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

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

HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2019 (x86_64)

Version: 1.0.0.1 (b) (Optional)

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occurred.

Obtain Smart SAN User Guide for 3PAR at following link: [HPE Smart SAN for 3PAR 2.0 User Guide](#)

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The latest Qlogic FC driver 9.4.6.20 is available on the Service Pack for ProLiant (SPP) which is available at <http://www.hpe.com/servers/spp/download/>

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

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

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

HPE QLogic Smart SAN Enablement Kit for Fibre Channel Host Bus Adapter for Microsoft Windows Server 2022 (x86_64)

Version: 1.0.0.1 (b) (Optional)

Important Note!

The Smart SAN enablement kit will not execute when an operating system has only the inbox fibre channel driver installed. An out of box (OOB) fibre channel driver is needed to utilize Smart SAN functionality. If any OOB driver is installed, the enablement kit will pre-enable/disable Smart SAN functionality for future use. It can then be activated once a Smart SAN enabled OOB driver is installed (see Prerequisite Notes) and after a reboot has occurred.

Obtain Smart SAN User Guide for 3PAR at following link: [HPE Smart SAN for 3PAR 2.0 User Guide](#)

Prerequisites

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

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

The HPE supplied fibre channel driver must be installed prior to this enablement kit component if you want to enable Smart SAN functionality. The driver is available on the HPE.com website at www.hpe.com.

- HPE Storage Fibre Channel Adapter Kit for the QLogic Storport Driver for Windows Server 2022 version 9.4.6.20, cp054361.exe

However, if a Smart SAN enabled driver is not installed at execution time, the component will land the enablement kit files for future use after the driver has been installed.

Enhancements

Updated to version 1.0.0.1

Supported Devices and Features

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

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

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

Version: 3.5.0 (Optional)

Prerequisites

- amsd only supported on HPE Gen10/Gen10 Plus and later Server Generations.
- amsd provides information to the iLO 5 and iLO 6 service providing SNMP support.
- Requirements:
 - Minimum iLO 5 Firmware Version = 2.70
 - Minimum supported OS Versions = Red Hat Enterprise Linux 9
- Requirements:
 - Minimum iLO 6 Firmware Version = 1.10

- Minimum supported OS Versions = Red Hat Enterprise Linux 9

Fixes

Fixed the following items:

- Fixed the issue where AMS was crashing after plugging and removing a USB drive

Enhancements

The RHEL9 AMS rpm is now FIPS compliant

Agentless Management Service (iLO5, iLO 6) for Red Hat Enterprise Linux 8 Server

Version: 3.5.0 (Optional)

Prerequisites

- amsd only supported on HPE Gen10/Gen10 Plus Servers and later Server Generations.
- amsd provides information to the iLO 5 and iLO 6 service providing SNMP support.
- Requirements:
 - Minimum iLO 5 Firmware Version = 1.10
 - Minimum supported OS Versions = Red Hat Enterprise Linux 8
- Requirements:
 - Minimum iLO 6 Firmware Version = 1.10