

HA8000V シリーズ

Service Pack for HA8000V (SPH)

Version 6.40 31

Readme

2023年12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。こちらも含わせてご参照ください。マニュアルは『[ドキュメントポータル](#)』の「マニュアル > サーバ」-「HA8000V シリーズ」より参照いただけます。

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

1.3 変更履歴

発行日	変更内容
2021年7月	初版
2021年7月	サポートOS追加
2021年9月	適用機種追加、サポートデバイス追加
2021年12月	誤記訂正
2022年3月	誤記訂正、サポートデバイス追加
2022年5月	誤記訂正
2022年11月	3.1 修正、5.11 追記
2023年12月	5.3 (6)/5.3 (7)追記、5.7.4 /5.9 修正、その他誤記訂正

2. Service Pack for HA8000V (SPH)について

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

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

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

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

3. 適用機種及びOS

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

3.1 適用機種

- HA8000V/DL20 Gen10 (U43)
- HA8000V/DL360 Gen10 (U32)
- HA8000V/DL360 Gen10 Plus (U46)
- HA8000V/DL380 Gen10 (U30)
- HA8000V/DL380 Gen10 Plus (U46)
- HA8000V/DL580 Gen10 (U34)
- HA8000V/ML30 Gen10 (U44)
- HA8000V/ML350 Gen10 (U41)

3.2 適用 OS

- Microsoft® Windows Server® 2019
- Microsoft® Windows Server® 2016
- Microsoft® Windows Server® 2012 R2
- Red Hat® Enterprise Linux® Server 7.9
- Red Hat® Enterprise Linux® Server 7.8
- Red Hat® Enterprise Linux® Server 8.3
- Red Hat® Enterprise Linux® Server 8.2
- VMware ESXi™ 6.7
- VMware ESXi™ 6.5
- 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

(1) 追加サポート機種及びOS

- 追加サポート機種

- HA8000V/DL360 Gen10 Plus
- HA8000V/DL380 Gen10 Plus

- 追加サポートOS

- Red Hat® Enterprise Linux® Server 8.3
- VMware ESXi™ 7.0

(2) 追加サポートデバイス

- HPE 10GbE 2p FLR-T BCM57416(535FLR-T) Adptr (HPE Broadcom NetXtreme-E adapters)
- HPE 10GbE 2p BASE-T BCM57416(535T) Adptr (HPE Broadcom NetXtreme-E adapters)
- HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr
- HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr
- INT E810 10/25GbE 2p SFP28 Adptr (Intel E810-XXVDA2 adapter)
- INT E810 10/25GbE 4p SFP28 Adptr (Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE)
- INT E810 10/25GbE 2p SFP28 OCP3 Adptr (Intel E810-XXVDA2 OCP3 adapter)
- INT X710 10Gb 2p SFP+ Adptr (HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter)
- INT X710 10GbE 2p SFP+ OCP3 Adptr (HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter)
- INT I350 1GbE 4p BASE-T Adptr (Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE)
- INT I350 1GbE 4p BASE-T OCP3 Adptr (Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE)
- BCM 57416 10GbE 2p BASE-T Adptr (HPE Broadcom NetXtreme-E adapters)
- BCM 57416 10GbE 2p BASE-T OCP3 Adptr (HPE Broadcom NetXtreme-E adapters)
- BCM 57412 10GbE 2p SFP+ Adptr (HPE Broadcom NetXtreme-E adapters)
- BCM 57412 10GbE 2p SFP+ OCP3 Adptr (HPE Broadcom NetXtreme-E adapters)
- MLX MCX512F 10/25GbE 2p SFP28 Adptr
- MLX MCX562A 10/25GbE 2p SFP28 OCP3 Adptr
- HPE NS204i-p NVMe PCIe3 OS Boot Device
- HPE NS204i-r NVMe PCIe3 OS Boot Device
- Microchip SR416i-a Cntrl for HPE Gen10+
- Microchip SR932i-p Cntrl for HPE Gen10+

4.2 更新内容

『6.3 パッケージの変更内容』を参照ください。

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"パラメーター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"パラメーター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

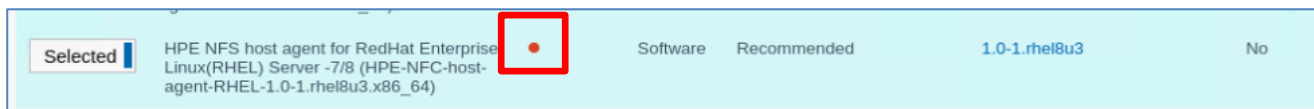
Linux 環境で利用するパッケージには、特定の OS ライブラリを前提とするものがあります。そのパッケージを適用する際、前提とする OS ライブラリが事前にインストールされていない場合、インベントリ完了後、または展開(Deploy)完了後に依存関係エラーとなります。

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。

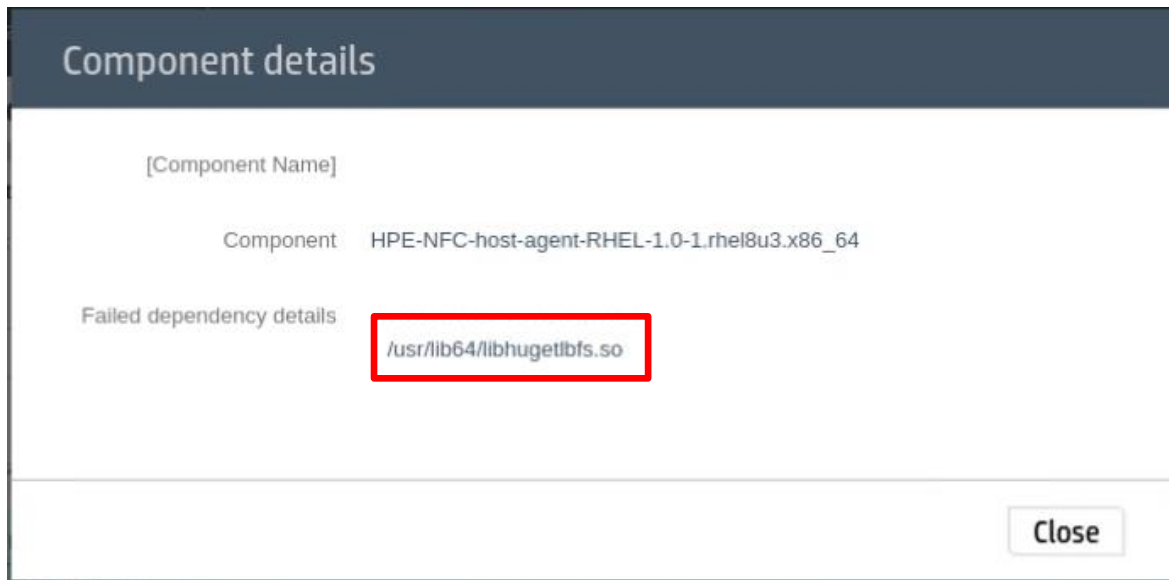
なお、依存する OS ライブラリは、依存関係解消後に新たな依存関係が発生する場合があります、その場合は依存関係エラーが解消するまで、SPH 適用を繰り返す必要があります。

【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)



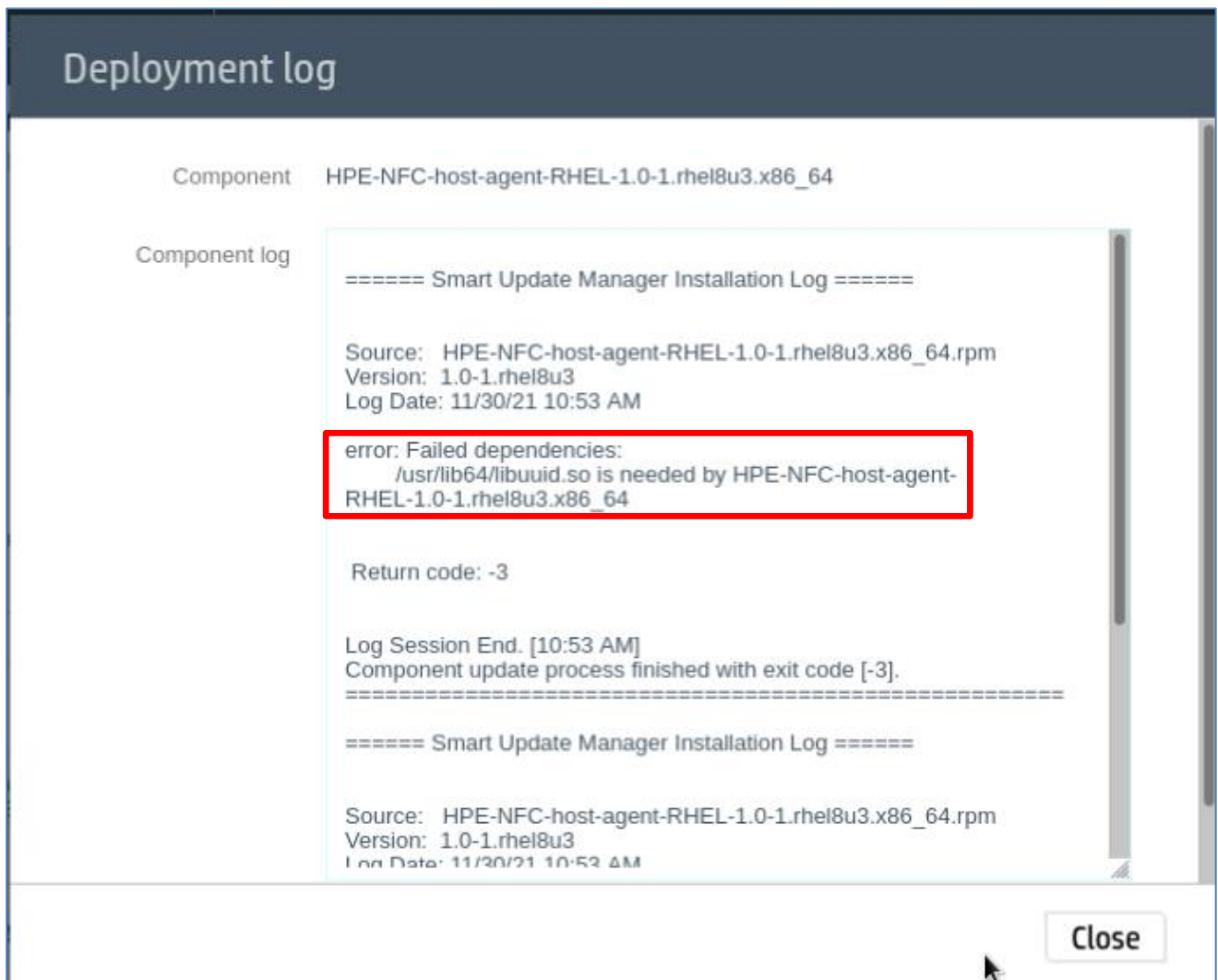
上記の例では、インストールが必要となるファイル/ライブラリとして、“libhugetlbfs.so”を示しています。

【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。



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



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

(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な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 5 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 5 x.xx ユーザーガイド』は、「[日立アドバンスドサーバ HA8000V シリーズ ホームページ](#)」に掲載されている「製品マニュアル」よりダウンロードしてください。
- (2) オンラインアップデート(OS 稼働中のアップデート)の場合、装置の再起動を実施してください。
- (3) 装置の給電を停止(電源ケーブルの抜きや 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。

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、『6.2.11 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(version 3.10 以降)を使った OS のインストール又は SPH(version 3.00 以降)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『6.2.9 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 2012 R2	iLO 5 Automatic Server Recovery Driver for Windows Server 2012 R2
2	Windows Server 2016	iLO 5 Automatic Server Recovery Driver for Windows Server 2016 and Server 2019
3	Windows Server 2019	

(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(sut-esxi*.*-bundle*.*.*.*.zip)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™ 6.5	cp044433.zip	sut-esxi6.5-offline-bundle-2.8.0.0-22.zip
2	VMware ESXi™ 6.7	cp044434.zip	sut-esxi6.7-offline-bundle-2.8.0.0-18.zip
3	VMware ESXi™ 7.0	cp044460.zip	sutComponent_700.2.8.0.20-0-signed_component-17782108.zip

- (2) 取り出した iSUT のオフラインバンドルを VMware ESXi の「datastore1」直下へに転送してください。
- (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) 下記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) 下記コマンドを実行し、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、下記コマンドを実行してください。

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

5.7.3 Management Bundle, Utilities Bundle 収録モジュールのバージョンについて

Management Bundle, Utilities Bundle には、複数の VIB モジュールが含まれています。各コンポーネントに含まれる VIB のバージョンは次の通りです。

【Management Bundle Smart Component に含まれる VIB モジュール及びバージョン】

OS バージョン			VMware6.5	VMware6.7	VMware7.0		
ファイル名			cp046908.zip	cp046907.zip	cp046906.zip	cp044916.zip	cp044591.zip
VIB モジュール	amsd	Agentless Management Service	650.11.7.1.3-1.4240417	670.11.7.1.2-1.7535516	701.11.7.1.3-1	—	—
	fc-enablement	Fiber Channel Enablement Package	650.3.6.0.2-4240417	670.3.70.5-7535516	—	2021.04.01	—
	smx-provider	WBEM Providers	650.03.16.00.4-4240417	670.03.16.00.3-7535516	—	—	700.03.16.00.12-14828939

【Utilities Bundle Smart Component に含まれる VIB モジュール及びバージョン】

OS バージョン			VMware6.5	VMware6.7	VMware7.0
ファイル名			cp047035.zip	cp047036.zip	cp045897.zip
VIB モ ジ ュ ー ル	conrep	Conrep Utility	650.10.7.0.1-6.5.0.2 494585	670.10.7.0.1-6.7.0.7 535516	700.10.7.0.8-7.0.0.1 5525992
	testevent	Test Event Utility	6.5.0.02-01.00.9.42 40417	6.7.0.02-01.00.12.7 535516	700.10.7.0.3-7.0.0.1 5525992
	ssacli	Smart Storage Administrator CLI	5.10.45.1-6.5.0.424 0417.oem	5.10.45.1-6.7.0.753 5516.oem	
	Bootcfg	Boot Configuration Utility	6.0.0.02-06.00.16.2 494585	6.7.0.02-06.00.14.7 535516	700.10.7.0.3-7.0.0.1 5525992
	Hponcfg	Lights-Out Configuration Utility	6.0.0.5.5-0.37.2494 585	6.7.0.5.5-0.18.7535 516	700.10.7.0.3-7.0.0.1 5525992

5.7.4 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 ilusername=<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
```

5.7.5 ドライバパラメータ再設定について

本 SPH を使用して VMware ドライバをアップデートした場合、ネイティブ ドライバが適用されます。ご使用の VMware 環境で VMKLinux ドライバをご使用の場合、ドライバが変更され、設定されているドライバパラメータが初期化されます。この問題を回避するために、ドライバアップデート後、ドライバパラメータを再設定してください。

【対象製品及びドライバ種】

下表に記載している対象製品並びにアップデート前のドライバ種をご使用の場合が対象となります。

対象製品		ドライバ種	
形名(*1)	製品名(旧品名)	アップデート前 (VMKLinux)	アップデート後 (ネイティブ)
TQ-N□□-817745-B21	Ethernet 10Gb 2-port FLR-T X550-AT2 Adapter(Ethernet 10Gb 2 ポート 562FLR-T ネットワークアダプタ)	net-ixgbe	ixgben
TQ-N□□-817738-B21	Ethernet 10Gb 2-port BASE-T X550-AT2 Adapter(Ethernet 10Gb 2 ポート 562T ネットワークアダプタ)		
TQ-N□□-665240-B21	Ethernet 1Gb 4-port FLR-T I350-T4V2 Adapter(Ethernet 1Gb 4 ポート 366FLR ネットワークアダプタ)	igb	igbn
TQ-N□□-652497-B21	Ethernet 1Gb 2-port BASE-T I350-T2V2 Adapter(Ethernet 1Gb 2 ポート 361T ネットワークアダプタ)		
TQ-N□□-811546-B21	Ethernet 1Gb 4-port BASE-T I350-T4V2 Adapter(Ethernet 1Gb 4 ポート 366T ネットワークアダプタ)		
TQ-N□□-727054-B21	Ethernet 10Gb 2-port FLR-SFP+ X710-DA2 Adapter(Ethernet 10Gb 2 ポート 562FLR-SFP+ ネットワークアダプタ)	i40e	i40en
TQ-N□□-727055-B21	Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter(Ethernet 10Gb 2 ポート 562SFP+ ネットワークアダプタ)		

(*1) : □には製品構成などにより異なった英数字が入ります。

【再設定手順】

(1) ドライバパラメータの確認及び記録

ドライバのアップデート前に、以下コマンドを実行し、ドライバパラメータ値を控えてください。

```
esxcfg-module -g <driver name>
```

<driver name> : アップデート前ドライバ種

以下実行例の「option = 'yyyy」の「yyyy」に設定値が表示されますので、値を控えてください。値が表示されない場合は、ドライバパラメータは未設定ですので、以降の作業は不要です。

(実行例) net-ixgbe の場合

```
# esxcfg-module -g net-ixgbe
net-ixgbe enabled = 1 options = 'yyyy'
```

また、下記の表示となる場合、net-ixgbe ドライバは未使用ですので、以降の作業は不要です。

(実行例) net-ixgbe の場合

```
# esxcfg-module -g net-ixgbe
Unknown module name net-ixgbe
```

(2) ドライバパラメータの再設定

ドライバのアップデート前に、以下コマンドを実行し、『(1)ドライバパラメータの確認及び記録』で控えたドライバパラメータを再設定して下さい。

```
esxcfg-module -s "yyyy" <driver name>
yyyy : 控えたドライバパラメータ
<driver name> : アップデート前ドライバ種
```

以下実行例の「option = 'yyyy」に控えたドライバパラメータを指定します。

(実行例) ixgben の場合

```
# esxcfg-module -s "yyyy" ixgben
```

(3) VMware ESXi の再起動

変更を有効にするため、VMware ESXi を再起動してください。

5.7.6 QLogic 製ファイバーチャネルホストバスアダプタご使用にあたっての注意事項

VMware 環境において、QLogic 製ファイバーチャネルホストバスアダプタの特定のドライバパラメータを設定している状態で SPH に収録されているドライバにアップデートすると、アダプタが認識できなくなります。

特に、SAN ブートパスに使用しているアダプタで本現象が発生した場合、OS が起動できなくなり、回復にはバックアップからのリストアが必要となります。本 SPH を用いたドライバのアップデート前に、予めパラメータ変更を行ってからドライバをアップデートしてください。

なお、デフォルトではパラメータは設定されておらず、本現象は発生しません。

パラメータ変更方法等、詳細は「日立アドバンストサーバ HA8000V シリーズ」の「製品に関する重要なお知らせ」掲載の「VMware 環境において QLogic 製ファイバーチャネルホストバスアダプタのドライバをアップデート後アダプタが認識できなくなる現象について(管理番号:CRI-2020-0005)」を参照してください。

5.7.7 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)

5.8 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、アドバイザー：「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。

5.9.2 Intel 製ネットワークアダプタのファームウェアダウングレードについて

Intel 製ネットワークアダプタをご使用になる場合、下表記載の SPH に収録されているファームウェアバージョンは、ダウングレードには対応しておりません。

形名(*1) or 搭載システム装置	製品名(旧品名)	ファームウェアバージョン
TQ-N□□-817745-B21 TQ-N□□-817738-B21	Ethernet 10Gb 2-port FLR-T X550-AT2 Adapter(Ethernet 10Gb 2 ポート 562FLR-T ネットワークアダプタ) Ethernet 10Gb 2-port BASE-T X550-AT2 Adapter(Ethernet 10Gb 2 ポート 562T ネットワークアダプタ)	10.54.4
TQ-N□□-727054-B21 TQ-N□□-727055-B21	Ethernet 10Gb 2-port FLR-SFP+ X710-DA2 Adapter(Ethernet 10Gb 2 ポート 562FLR-SFP+ネットワークアダプタ) Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter(Ethernet 10Gb 2 ポート 562SFP+ネットワークアダプタ)	10.54.7
HA8000V / ML350 Gen10 オンボード NIC	Ethernet 1Gb 4-port 369i ネットワークアダプタ	1.2836.0

(*1)：□には製品構成などにより異なった英数字が入ります。

5.10 Smart RAID Gen10 Plus Controller 環境での OS セットアップの注意事項

下表記載 Smart RAID Gen10 Plus Controller ご利用環境で、RHEL8.2 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 Smart RAID Gen10 Plus Controller ドライバを適用してください。

ドライバの適用方法は、「HA8000V Gen10 Plus 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□□-P04220-B21	SR932i-p Gen10 Plus コントローラ	Microchip SR932i-p Cntrl for HPE Gen10+
TQ-R□□-P12688-B21	SR416-a Gen10 Plus コントローラ	Microchip SR416i-a Cntrl for HPE Gen10+

(*1)：□には製品構成などにより異なった英数字が入ります。

RHEL8.2 以外の OS をセットアップする場合は、日立 Web ページから SPH6.50 以降をダウンロードの上、SPH 提供についてに記載の「注意事項・制限事項」および補足資料(Readme)を参照し、SPH に収録された Smart RAID Gen10 Plus Controller(SR932i-p/SR416-a)のドライバを適用してください。

SUM を使用して各種デバイスの更新作業を行う場合、Smart RAID Gen10 Plus Controller の以下に示すファームウェアはサポートしておりません。SUM インベントリ完了後に適用可能なパッケージとして表示されても、ファームウェアのダウングレードは実施しないでください。

パッケージ名	デバイス名	バージョン
HPE Smart Array SR932i-p and SR416i-a Gen10+ Controllers	Microchip SR932i-p Cntrl for HPE Gen10+ Microchip SR416i-a Cntrl for HPE Gen10+	03.01.00.006

5.11 Integrated Lights-Out 5 Firmware バージョンアップについて

本 SPH に収録している Integrated Lights-Out 5 Firmware(iLO)のオンライン適用において、ご利用環境の iLO バージョンが 1.40 未満の場合、バージョン 1.48 にアップデートした後、SPH を適用する必要があります。iLO バージョン 1.48 へのアップデートについては、ダウンロードサイトよりご利用環境の OS に対応したユーティリティをダウンロードいただき、案内されている手順に従ってアップデートしてください。

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	IT Report Utility (ITRU)	サーバの構成情報、および障害の情報を採取します	¥software¥Hitachi¥ITRU	
2	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】(旧品名)

- オンボード LAN[Ethernet 1Gb 4-port 331i Adapter]
- Ethernet 1Gb 4-port FLR-T BCM5719 Adapter(HP Ethernet 1Gb 4-port 331FLR Adapter)
- Ethernet 1Gb 4-port BASE-T BCM5719 Adapter(HP Ethernet 1Gb 4-port 331T Adapter)
- Ethernet 1Gb 2-port BASE-T BCM5720 Adapter(HP Ethernet 1Gb 2-port 332T Adapter)

(1) ITRU のインストール

ITRU をインストールするには、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¥ITRU¥setup.bat
```

なお、ITRU のインストールに関する詳細情報は次の WEB ページ

https://www.hitachi.co.jp/cgi-bin/soft/sjst/select_open.cgi

に掲載されている Windows 版 ITRU 取扱説明書の 3 章をご確認願います。

(2) ネットワークアダプタ レジストリ設定の適用

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

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

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

ツール実行後、OS を再起動してください。

【注意】

ネットワークアダプタ レジストリ設定ツールのバッチファイルを実行した場合、実行画面の対象 OS に Windows Server 2019 が表示されません。これは表示上だけの問題であり、Windows Server 2019 にも対応していますので、ネットワークアダプタ レジストリ設定ツールを適用してください。

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

Category 一覧

- [Application - System Management](#)
- [BIOS - System ROM](#)
- [Driver - Chipset](#)
- [Driver - Network](#)
- [Driver - Storage](#)
- [Driver - Storage Controller](#)
- [Driver - Storage Fibre Channel and Fibre Channel over Ethernet](#)
- [Driver - System](#)
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- [Software - Storage Fibre Channel](#)

- [Software - Storage Fibre Channel HBA](#)
- [Software - System Management](#)
- [Utility - Tools](#)

6.2.1 Application - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1	Integrated Smart Update Tools 2.8.0 for ESXi 6.5	cp044433.zip	-	2021.04.00	2021.04.00	更新
2	Integrated Smart Update Tools 2.8.0 for ESXi 6.7	cp044434.zip	-	2021.04.00	2021.04.00	更新
3	Integrated Smart Update Tools 2.8.0 for ESXi 7.0	cp044460.zip	-	2021.04.00	701.2.8.0.28-1 OEM.701.0.0. 16555998	更新
4	Integrated Smart Update Tools for Linux x64	sut-2.8.0-26.linux.x86_64.rpm	-	2.8.0.0	2.8.0-26.linux	更新
5	Integrated Smart Update Tools for Windows x64	cp044589.exe	-	2.8.0.0	2.8.0.0	更新

6.2.2 BIOS - System ROM

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
6	Online ROM Flash Component for Linux - OEM System ROM U34	firmware-system-oem-u34-2.42_2021_01_23-1.x86_64.rpm	System BIOS - U34	2.42_01-23-2021	v2.42 (01/23/2021)	更新
7	Online ROM Flash Component for Linux - System ROM U30	firmware-system-oem-u30-2.42_2021_01_23-1.x86_64.rpm	System BIOS - U30	2.42_01-23-2021	v2.42 (01/23/2021)	更新
8	Online ROM Flash Component for Linux - System ROM U32	firmware-system-oem-u32-2.42_2021_01_23-1.x86_64.rpm	System BIOS - U32	2.42_01-23-2021	v2.42 (01/23/2021)	更新
9	Online ROM Flash Component for Linux - System ROM U41	firmware-system-oem-u41-2.42_2021_01_23-1.x86_64.rpm	System BIOS - U41	2.42_01-23-2021	v2.42 (01/23/2021)	更新
10	Online ROM Flash Component for Linux - System ROM U43	firmware-system-oem-u43-2.20_2020_10_27-1.x86_64.rpm	System BIOS - U43	2.20_10-27-2020	v2.20 (10/27/2020)	更新
11	Online ROM Flash Component for Linux - System ROM U44	firmware-system-oem-u44-2.20_2020_10_27-1.x86_64.rpm	System BIOS - U44	2.20_10-27-2020	v2.20 (10/27/2020)	更新
12	Online ROM Flash Component for Windows x64 - OEM System ROM U34	cp046638.exe	System BIOS - U34	2.42_01-23-2021	v2.42 (01/23/2021)	更新
13	Online ROM Flash Component for Windows x64 - System ROM U30	cp046617.exe	System BIOS - U30	2.42_01-23-2021	v2.42 (01/23/2021)	更新
14	Online ROM Flash Component for Windows x64 - System ROM U32	cp046629.exe	System BIOS - U32	2.42_01-23-2021	v2.42 (01/23/2021)	更新
15	Online ROM Flash Component for Windows x64 - System ROM U41	cp046650.exe	System BIOS - U41	2.42_01-23-2021	v2.42 (01/23/2021)	更新
16	Online ROM Flash Component for Windows x64 - System ROM U43	cp045784.exe	System BIOS - U43	2.20_10-27-2020	v2.20 (10/27/2020)	更新
17	Online ROM Flash Component for Windows x64 - System ROM U44	cp045789.exe	System BIOS - U44	2.20_10-27-2020	v2.20 (10/27/2020)	更新
18	ROM Flash Firmware Package - System ROM U30	OEM.U30_2.42_01_23_2021.fwpkg	System BIOS - U30	2.42_01-23-2021	v2.42 (01/23/2021)	更新
19	ROM Flash Firmware Package - System ROM U32	OEM.U32_2.42_01_23_2021.fwpkg	System BIOS - U32	2.42_01-23-2021	v2.42 (01/23/2021)	更新
20	ROM Flash Firmware Package - System ROM U34	OEM.U34_2.42_01_23_2021.fwpkg	System BIOS - U34	2.42_01-23-2021	v2.42 (01/23/2021)	更新
21	ROM Flash Firmware Package - System ROM U41	OEM.U41_2.42_01_23_2021.fwpkg	System BIOS - U41	2.42_01-23-2021	v2.42 (01/23/2021)	更新
22	ROM Flash Firmware Package - System ROM U43	OEM.U43_2.20_10_27_2020.fwpkg	System BIOS - U43	2.20_10-27-2020	v2.20 (10/27/2020)	更新

23	ROM Flash Firmware Package - System ROM U44	OEM.U44_2.20_10_27_2020.fwpkg	System BIOS - U44	2.20_10-27-2020	v2.20 (10/27/2020)	更新
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6.2.3 Driver – Chipset

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
24	Identifiers for Intel Xeon E-2xxx Processor for Windows	cp039323.exe	-	10.1.18015.8142	10.1.18015.8142	
25	Identifiers for Intel Xeon Scalable Processors (First and Second Generation) for Windows	cp044968.exe	-	10.1.18435.8224	10.1.18435.8224	更新
26	Identifiers for Intel Xeon Scalable Processors (Third Generation) for Windows	cp047086.exe	-	10.1.18661.8255	10.1.18661.8255	新規追加

6.2.4 Driver – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
27	Broadcom NetXtreme-E Driver for Windows Server 2016	cp045254.exe	BCM 57416 10GbE 2p BASE-T Adptr	218.0.32.0	218.0.32.0	新規追加
28	Broadcom NetXtreme-E Driver for Windows Server 2016	cp045254.exe	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	218.0.32.0	218.0.32.0	新規追加
29	Broadcom NetXtreme-E Driver for Windows Server 2016	cp045254.exe	BCM 57412 10GbE 2p SFP+ Adptr	218.0.32.0	218.0.32.0	新規追加
30	Broadcom NetXtreme-E Driver for Windows Server 2016	cp045254.exe	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	218.0.32.0	218.0.32.0	新規追加
31	Broadcom NetXtreme-E Driver for Windows Server 2019	cp045255.exe	BCM 57416 10GbE 2p BASE-T Adptr	218.0.32.0	218.0.32.0	新規追加
32	Broadcom NetXtreme-E Driver for Windows Server 2019	cp045255.exe	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	218.0.32.0	218.0.32.0	新規追加
33	Broadcom NetXtreme-E Driver for Windows Server 2019	cp045255.exe	BCM 57412 10GbE 2p SFP+ Adptr	218.0.32.0	218.0.32.0	新規追加
34	Broadcom NetXtreme-E Driver for Windows Server 2019	cp045255.exe	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	218.0.32.0	218.0.32.0	新規追加
35	HPE Broadcom NetXtreme-E Driver for Windows Server 2012 R2	cp041785.exe	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	214.0.247.1	214.0.247.1	
36	HPE Broadcom NetXtreme-E Driver for Windows Server 2012 R2	cp041785.exe	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	214.0.247.1	214.0.247.1	
37	HPE Broadcom NetXtreme-E Driver for Windows Server 2012 R2	cp041785.exe	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	214.0.247.1	214.0.247.1	
38	HPE Broadcom NetXtreme-E Driver for Windows Server 2012 R2	cp041785.exe	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	214.0.247.1	214.0.247.1	
39	HPE Broadcom NetXtreme-E Driver for Windows Server 2016	cp045020.exe	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	218.0.32.0	218.0.32.0	更新

40	HPE Broadcom NetXtreme-E Driver for Windows Server 2016	cp045020.exe	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	218.0.32.0	218.0.32.0	更新
41	HPE Broadcom NetXtreme-E Driver for Windows Server 2016	cp045020.exe	HPE Ethernet 10Gb 2-port 535T Adapter	218.0.32.0	218.0.32.0	新規追加
42	HPE Broadcom NetXtreme-E Driver for Windows Server 2016	cp045020.exe	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	218.0.32.0	218.0.32.0	更新
43	HPE Broadcom NetXtreme-E Driver for Windows Server 2016	cp045020.exe	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	218.0.32.0	218.0.32.0	更新
44	HPE Broadcom NetXtreme-E Driver for Windows Server 2016	cp045020.exe	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	218.0.32.0	218.0.32.0	新規追加
45	HPE Broadcom NetXtreme-E Driver for Windows Server 2019	cp045021.exe	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	218.0.32.0	218.0.32.0	更新
46	HPE Broadcom NetXtreme-E Driver for Windows Server 2019	cp045021.exe	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	218.0.32.0	218.0.32.0	更新
47	HPE Broadcom NetXtreme-E Driver for Windows Server 2019	cp045021.exe	HPE Ethernet 10Gb 2-port 535T Adapter	218.0.32.0	218.0.32.0	新規追加
48	HPE Broadcom NetXtreme-E Driver for Windows Server 2019	cp045021.exe	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	218.0.32.0	218.0.32.0	更新
49	HPE Broadcom NetXtreme-E Driver for Windows Server 2019	cp045021.exe	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	218.0.32.0	218.0.32.0	更新
50	HPE Broadcom NetXtreme-E Driver for Windows Server 2019	cp045021.exe	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	218.0.32.0	218.0.32.0	新規追加
51	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u8.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u8	更新
52	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u8.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u8	更新
53	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 535T Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u8	新規追加
54	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u8	更新
55	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u8	更新
56	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u8	新規追加
57	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u9.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u9	更新

58	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u9.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u9	更新
59	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 535T Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u9	新規追加
60	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u9	更新
61	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u9	更新
62	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7	kmod-bnxt_en-1.10.2-218.0.67.0.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel7u9	新規追加
63	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u2.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u2	更新
64	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u2.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u2	更新
65	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 535T Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u2	新規追加
66	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u2	更新
67	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u2	更新
68	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u2	新規追加
69	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u3.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u3	更新
70	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u3.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u3	更新
71	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 535T Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u3	新規追加
72	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u3	更新
73	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u3	更新
74	HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 8	kmod-bnxt_en-1.10.2-218.0.67.0.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	1.10.2-218.0.67.0	1.10.2-218.0.67.0.rhel8u3	新規追加
75	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5	cp045073.zip	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	2021.04.05	218.0.38.0-10EM.650.0.0.4598673	更新

76	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5	cp045073.zip	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	2021.04.05	218.0.38.0-10 EM.650.0.0.4 598673	更新
77	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5	cp045073.zip	HPE Ethernet 10Gb 2-port 535T Adapter	2021.04.05	218.0.38.0-10 EM.650.0.0.4 598673	新規追加
78	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5	cp045073.zip	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	2021.04.05	218.0.38.0-10 EM.650.0.0.4 598673	新規追加
79	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5	cp045073.zip	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	2021.04.05	218.0.38.0-10 EM.650.0.0.4 598673	更新
80	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5	cp045073.zip	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	2021.04.05	218.0.38.0-10 EM.650.0.0.4 598673	更新
81	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.7	cp045074.zip	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	2021.04.05	218.0.38.0-10 EM.670.0.0.8 169922	更新
82	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.7	cp045074.zip	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	2021.04.05	218.0.38.0-10 EM.670.0.0.8 169922	更新
83	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.7	cp045074.zip	HPE Ethernet 10Gb 2-port 535T Adapter	2021.04.05	218.0.38.0-10 EM.670.0.0.8 169922	新規追加
84	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.7	cp045074.zip	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	2021.04.05	218.0.38.0-10 EM.670.0.0.8 169922	新規追加
85	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.7	cp045074.zip	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	2021.04.05	218.0.38.0-10 EM.670.0.0.8 169922	更新
86	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.7	cp045074.zip	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	2021.04.05	218.0.38.0-10 EM.670.0.0.8 169922	更新
87	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp045075.zip	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	2021.04.05	218.0.38.0-10 EM.700.1.0.1 5843807	更新
88	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp045075.zip	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	2021.04.05	218.0.38.0-10 EM.700.1.0.1 5843807	更新
89	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp045075.zip	HPE Ethernet 10Gb 2-port 535T Adapter	2021.04.05	218.0.38.0-10 EM.700.1.0.1 5843807	新規追加
90	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp045075.zip	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	2021.04.05	218.0.38.0-10 EM.700.1.0.1 5843807	新規追加
91	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp045075.zip	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	2021.04.05	218.0.38.0-10 EM.700.1.0.1 5843807	更新
92	HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0	cp045075.zip	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	2021.04.05	218.0.38.0-10 EM.700.1.0.1 5843807	更新
93	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 8	libbnxt_re-218.0.7.0-rhel7u8.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	218.0.7.0	218.0.7.0	更新

94	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 8	libbnxt_re-218.0.7.0-rhel7u8.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	218.0.7.0	218.0.7.0	更新
95	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 8	libbnxt_re-218.0.7.0-rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 535T Adapter	218.0.7.0	218.0.7.0	新規追加
96	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 8	libbnxt_re-218.0.7.0-rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	218.0.7.0	218.0.7.0	更新
97	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 8	libbnxt_re-218.0.7.0-rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	218.0.7.0	218.0.7.0	更新
98	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 8	libbnxt_re-218.0.7.0-rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	218.0.7.0	218.0.7.0	新規追加
99	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 9	libbnxt_re-218.0.7.0-rhel7u9.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	218.0.7.0	218.0.7.0	新規追加
100	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 9	libbnxt_re-218.0.7.0-rhel7u9.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	218.0.7.0	218.0.7.0	新規追加
101	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 9	libbnxt_re-218.0.7.0-rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 535T Adapter	218.0.7.0	218.0.7.0	新規追加
102	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 9	libbnxt_re-218.0.7.0-rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	218.0.7.0	218.0.7.0	新規追加
103	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 9	libbnxt_re-218.0.7.0-rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	218.0.7.0	218.0.7.0	新規追加
104	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 9	libbnxt_re-218.0.7.0-rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	218.0.7.0	218.0.7.0	新規追加
105	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 2.	libbnxt_re-218.0.7.0-rhel8u2.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	218.0.7.0	218.0.7.0	新規追加
106	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 2.	libbnxt_re-218.0.7.0-rhel8u2.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	218.0.7.0	218.0.7.0	新規追加
107	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 2.	libbnxt_re-218.0.7.0-rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 535T Adapter	218.0.7.0	218.0.7.0	新規追加
108	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 2.	libbnxt_re-218.0.7.0-rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	218.0.7.0	218.0.7.0	新規追加
109	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 2.	libbnxt_re-218.0.7.0-rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	218.0.7.0	218.0.7.0	新規追加
110	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 2.	libbnxt_re-218.0.7.0-rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	218.0.7.0	218.0.7.0	新規追加
111	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 3.	libbnxt_re-218.0.7.0-rhel8u3.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	218.0.7.0	218.0.7.0	新規追加

112	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 3.	libbnxt_re-218.0.7.0-rhel8u3.x86_64.rpm	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	218.0.7.0	218.0.7.0	新規追加
113	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 3.	libbnxt_re-218.0.7.0-rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 535T Adapter	218.0.7.0	218.0.7.0	新規追加
114	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 3.	libbnxt_re-218.0.7.0-rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	218.0.7.0	218.0.7.0	新規追加
115	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 3.	libbnxt_re-218.0.7.0-rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	218.0.7.0	218.0.7.0	更新
116	HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 8 Update 3.	libbnxt_re-218.0.7.0-rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	218.0.7.0	218.0.7.0	新規追加
117	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp045019.exe	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	214.0.0.6	214.0.0.6	更新
118	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp045019.exe	HP Ethernet 1Gb 2-port 332T Adapter	214.0.0.6	214.0.0.6	更新
119	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp045019.exe	HP Ethernet 1Gb 4-port 331FLR Adapter	214.0.0.6	214.0.0.6	更新
120	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp045019.exe	HP Ethernet 1Gb 4-port 331T Adapter	214.0.0.6	214.0.0.6	更新
121	HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions	cp045019.exe	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	214.0.0.6	214.0.0.6	更新
122	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.139b-1.rhel7u8.x86_64.rpm	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	3.139b-1	3.139b-1.rhel7u8	更新
123	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.139b-1.rhel7u8.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.139b-1	3.139b-1.rhel7u8	更新
124	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.139b-1.rhel7u8.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.139b-1	3.139b-1.rhel7u8	更新
125	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.139b-1.rhel7u8.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	3.139b-1	3.139b-1.rhel7u8	更新
126	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.139b-1.rhel7u8.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.139b-1	3.139b-1.rhel7u8	更新
127	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.139b-1.rhel7u9.x86_64.rpm	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	3.139b-1	3.139b-1.rhel7u9	更新
128	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.139b-1.rhel7u9.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.139b-1	3.139b-1.rhel7u9	更新
129	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.139b-1.rhel7u9.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.139b-1	3.139b-1.rhel7u9	更新
130	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.139b-1.rhel7u9.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	3.139b-1	3.139b-1.rhel7u9	更新
131	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-tg3-3.139b-1.rhel7u9.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.139b-1	3.139b-1.rhel7u9	更新
132	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139b-1.rhel8u2.x86_64.rpm	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	3.139b-1	3.139b-1.rhel8u2	更新

133	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139b-1.rhel8u2.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.139b-1	3.139b-1.rhel8u2	更新
134	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139b-1.rhel8u2.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.139b-1	3.139b-1.rhel8u2	更新
135	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139b-1.rhel8u2.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	3.139b-1	3.139b-1.rhel8u2	更新
136	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139b-1.rhel8u2.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.139b-1	3.139b-1.rhel8u2	更新
137	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139b-1.rhel8u3.x86_64.rpm	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	3.139b-1	3.139b-1.rhel8u3	更新
138	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139b-1.rhel8u3.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	3.139b-1	3.139b-1.rhel8u3	更新
139	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139b-1.rhel8u3.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	3.139b-1	3.139b-1.rhel8u3	更新
140	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139b-1.rhel8u3.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	3.139b-1	3.139b-1.rhel8u3	更新
141	HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8	kmod-tg3-3.139b-1.rhel8u3.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	3.139b-1	3.139b-1.rhel8u3	更新
142	HPE Intel E1R Driver for Windows Server 2012 R2	cp045119.exe	HPE Ethernet 1Gb 2-port 361T Adapter	12.14.8.5	12.14.8.5	新規追加
143	HPE Intel E1R Driver for Windows Server 2012 R2	cp045119.exe	HPE Ethernet 1Gb 4-port 366FLR Adapter	12.14.8.5	12.14.8.5	新規追加
144	HPE Intel E1R Driver for Windows Server 2012 R2	cp045119.exe	HPE Ethernet 1Gb 4-port 366T Adapter	12.14.8.5	12.14.8.5	新規追加
145	HPE Intel E1R Driver for Windows Server 2016	cp045120.exe	HPE Ethernet 1Gb 2-port 361T Adapter	12.16.3.1	12.16.3.1	新規追加
146	HPE Intel E1R Driver for Windows Server 2016	cp045120.exe	HPE Ethernet 1Gb 4-port 366FLR Adapter	12.16.3.1	12.16.3.1	新規追加
147	HPE Intel E1R Driver for Windows Server 2016	cp045120.exe	HPE Ethernet 1Gb 4-port 366T Adapter	12.16.3.1	12.16.3.1	新規追加
148	HPE Intel E1R Driver for Windows Server 2019	cp045121.exe	HPE Ethernet 1Gb 2-port 361T Adapter	12.18.11.1	12.18.11.1	新規追加
149	HPE Intel E1R Driver for Windows Server 2019	cp045121.exe	HPE Ethernet 1Gb 4-port 366FLR Adapter	12.18.11.1	12.18.11.1	新規追加
150	HPE Intel E1R Driver for Windows Server 2019	cp045121.exe	HPE Ethernet 1Gb 4-port 366T Adapter	12.18.11.1	12.18.11.1	新規追加
151	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.13.10-1.rhel7u8.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	2.13.10-1	2.13.10-1.rhel7u8	更新
152	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.13.10-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2.13.10-1	2.13.10-1.rhel7u8	更新
153	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.13.10-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2.13.10-1	2.13.10-1.rhel7u8	更新

154	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.13.10-1.rhel7u9.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	2.13.10-1	2.13.10-1.rhel7u9	更新
155	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.13.10-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2.13.10-1	2.13.10-1.rhel7u9	更新
156	HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-i40e-2.13.10-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2.13.10-1	2.13.10-1.rhel7u9	更新
157	HPE Intel i40e Drivers for Red Hat Enterprise Linux 8	kmod-hp-i40e-2.13.10-1.rhel8u2.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	2.13.10-1	2.13.10-1.rhel8u2	更新
158	HPE Intel i40e Drivers for Red Hat Enterprise Linux 8	kmod-hp-i40e-2.13.10-1.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2.13.10-1	2.13.10-1.rhel8u2	更新
159	HPE Intel i40e Drivers for Red Hat Enterprise Linux 8	kmod-hp-i40e-2.13.10-1.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2.13.10-1	2.13.10-1.rhel8u2	更新
160	HPE Intel i40ea Driver for Windows Server 2012 R2	cp045124.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.13.104.0	1.13.104.0	更新
161	HPE Intel i40ea Driver for Windows Server 2012 R2	cp045124.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.13.104.0	1.13.104.0	更新
162	HPE Intel i40ea Driver for Windows Server 2016	cp045125.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.13.104.0	1.13.104.0	更新
163	HPE Intel i40ea Driver for Windows Server 2016	cp045125.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.13.104.0	1.13.104.0	更新
164	HPE Intel i40ea Driver for Windows Server 2019	cp045126.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.13.104.0	1.13.104.0	更新
165	HPE Intel i40ea Driver for Windows Server 2019	cp045126.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.13.104.0	1.13.104.0	更新
166	HPE Intel i40eb Driver for Windows Server 2012 R2	cp045127.exe	HPE Ethernet 1Gb 4-port 369i Adapter	1.13.104.0	1.13.104.0	更新
167	HPE Intel i40eb Driver for Windows Server 2016	cp045128.exe	HPE Ethernet 1Gb 4-port 369i Adapter	1.13.104.0	1.13.104.0	更新
168	HPE Intel i40eb Driver for Windows Server 2019	cp045129.exe	HPE Ethernet 1Gb 4-port 369i Adapter	1.13.104.0	1.13.104.0	更新
169	HPE Intel i40en Driver for VMware vSphere 6.5	cp042675.zip	HPE Ethernet 1Gb 4-port 369i Adapter	2020.09.14	1.10.6-1OEM.650.0.0.4598673	
170	HPE Intel i40en Driver for VMware vSphere 6.5	cp042675.zip	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2020.09.14	1.10.6-1OEM.650.0.0.4598673	
171	HPE Intel i40en Driver for VMware vSphere 6.5	cp042675.zip	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2020.09.14	1.10.6-1OEM.650.0.0.4598673	
172	HPE Intel i40en Driver for VMware vSphere 6.7	cp045743.zip	HPE Ethernet 1Gb 4-port 369i Adapter	2021.04.05	1.10.9.0-1OEM.670.0.0.8169922	更新

173	HPE Intel i40en Driver for VMware vSphere 6.7	cp045743.zip	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2021.04.05	1.10.9.0-10E M.670.0.0.81 69922	更新
174	HPE Intel i40en Driver for VMware vSphere 6.7	cp045743.zip	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2021.04.05	1.10.9.0-10E M.670.0.0.81 69922	更新
175	HPE Intel i40en Driver for VMware vSphere 7.0	cp041295.zip	HPE Ethernet 1Gb 4-port 369i Adapter	2020.05.29	1.10.9.0-10E M.700.1.0.15 525992	
176	HPE Intel i40en Driver for VMware vSphere 7.0	cp041295.zip	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	2020.05.29	1.10.9.0-10E M.700.1.0.15 525992	
177	HPE Intel i40en Driver for VMware vSphere 7.0	cp041295.zip	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	2020.05.29	1.10.9.0-10E M.700.1.0.15 525992	
178	HPE Intel iavf Driver for Windows Server 2012 R2	cp045116.exe	INT E810 10/25GbE 2p SFP28 OCP3 Adptr	1.12.9.0	1.12.9.0	新規追加
179	HPE Intel iavf Driver for Windows Server 2016	cp045011.exe	INT E810 10/25GbE 2p SFP28 OCP3 Adptr	1.12.9.0	1.12.9.0	新規追加
180	HPE Intel iavf Driver for Windows Server 2019	cp045010.exe	INT E810 10/25GbE 2p SFP28 OCP3 Adptr	1.12.9.0	1.12.9.0	新規追加
181	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-4.0.2-1.rhel7u8.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	4.0.2-1	4.0.2-1.rhel7u8	更新
182	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-4.0.2-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	4.0.2-1	4.0.2-1.rhel7u8	更新
183	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-4.0.2-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	4.0.2-1	4.0.2-1.rhel7u8	更新
184	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-4.0.2-1.rhel7u9.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	4.0.2-1	4.0.2-1.rhel7u9	更新
185	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-4.0.2-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	4.0.2-1	4.0.2-1.rhel7u9	更新
186	HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-iavf-4.0.2-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	4.0.2-1	4.0.2-1.rhel7u9	更新
187	HPE Intel iavf Drivers for Red Hat Enterprise Linux 8	kmod-hp-iavf-4.0.2-1.rhel8u2.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	4.0.2-1	4.0.2-1.rhel8u2	更新
188	HPE Intel iavf Drivers for Red Hat Enterprise Linux 8	kmod-hp-iavf-4.0.2-1.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	4.0.2-1	4.0.2-1.rhel8u2	更新
189	HPE Intel iavf Drivers for Red Hat Enterprise Linux 8	kmod-hp-iavf-4.0.2-1.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	4.0.2-1	4.0.2-1.rhel8u2	更新
190	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.5-1.rhel7u8.x86_64.rpm	HPE Ethernet 1Gb 2-port 361T Adapter	6.2.5-1	6.2.5-1.rhel7u8	新規追加
191	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.5-1.rhel7u8.x86_64.rpm	HPE Ethernet 1Gb 4-port 366FLR Adapter	6.2.5-1	6.2.5-1.rhel7u8	新規追加
192	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.5-1.rhel7u8.x86_64.rpm	HPE Ethernet 1Gb 4-port 366T Adapter	6.2.5-1	6.2.5-1.rhel7u8	新規追加
193	HPE Intel igb Drivers for Red	kmod-hp-igb-6.2.5-1.rh	HPE Ethernet 1Gb	6.2.5-1	6.2.5-1.rhel7u	新規追加

	Hat Enterprise Linux 7 x86_64	el7u9.x86_64.rpm	2-port 361T Adapter		9	
194	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.5-1.rhel7u9.x86_64.rpm	HPE Ethernet 1Gb 4-port 366FLR Adapter	6.2.5-1	6.2.5-1.rhel7u9	新規追加
195	HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-igb-6.2.5-1.rhel7u9.x86_64.rpm	HPE Ethernet 1Gb 4-port 366T Adapter	6.2.5-1	6.2.5-1.rhel7u9	新規追加
196	HPE Intel igb Drivers for Red Hat Enterprise Linux 8	kmod-hp-igb-6.2.5-1.rhel8u2.x86_64.rpm	HPE Ethernet 1Gb 2-port 361T Adapter	6.2.5-1	6.2.5-1.rhel8u2	新規追加
197	HPE Intel igb Drivers for Red Hat Enterprise Linux 8	kmod-hp-igb-6.2.5-1.rhel8u2.x86_64.rpm	HPE Ethernet 1Gb 4-port 366FLR Adapter	6.2.5-1	6.2.5-1.rhel8u2	新規追加
198	HPE Intel igb Drivers for Red Hat Enterprise Linux 8	kmod-hp-igb-6.2.5-1.rhel8u2.x86_64.rpm	HPE Ethernet 1Gb 4-port 366T Adapter	6.2.5-1	6.2.5-1.rhel8u2	新規追加
199	HPE Intel igb Drivers for Red Hat Enterprise Linux 8	kmod-hp-igb-6.2.5-1.rhel8u3.x86_64.rpm	HPE Ethernet 1Gb 2-port 361T Adapter	6.2.5-1	6.2.5-1.rhel8u3	新規追加
200	HPE Intel igb Drivers for Red Hat Enterprise Linux 8	kmod-hp-igb-6.2.5-1.rhel8u3.x86_64.rpm	HPE Ethernet 1Gb 4-port 366FLR Adapter	6.2.5-1	6.2.5-1.rhel8u3	新規追加
201	HPE Intel igb Drivers for Red Hat Enterprise Linux 8	kmod-hp-igb-6.2.5-1.rhel8u3.x86_64.rpm	HPE Ethernet 1Gb 4-port 366T Adapter	6.2.5-1	6.2.5-1.rhel8u3	新規追加
202	HPE Intel igbn Driver for VMware vSphere 6.5	cp042677.zip	HPE Ethernet 1Gb 2-port 361T Adapter	2021.04.05	1.5.2.0-1OEM.650.0.0.4598673	新規追加
203	HPE Intel igbn Driver for VMware vSphere 6.5	cp042677.zip	HPE Ethernet 1Gb 4-port 366FLR Adapter	2021.04.05	1.5.2.0-1OEM.650.0.0.4598673	新規追加
204	HPE Intel igbn Driver for VMware vSphere 6.5	cp042677.zip	HPE Ethernet 1Gb 4-port 366T Adapter	2021.04.05	1.5.2.0-1OEM.650.0.0.4598673	新規追加
205	HPE Intel igbn Driver for VMware vSphere 6.7	cp042678.zip	HPE Ethernet 1Gb 2-port 361T Adapter	2021.04.05	1.5.2.0-1OEM.670.0.0.8169922	新規追加
206	HPE Intel igbn Driver for VMware vSphere 6.7	cp042678.zip	HPE Ethernet 1Gb 4-port 366FLR Adapter	2021.04.05	1.5.2.0-1OEM.670.0.0.8169922	新規追加
207	HPE Intel igbn Driver for VMware vSphere 6.7	cp042678.zip	HPE Ethernet 1Gb 4-port 366T Adapter	2021.04.05	1.5.2.0-1OEM.670.0.0.8169922	新規追加
208	HPE Intel igbn Driver for VMware vSphere 7.0	cp045339.zip	HPE Ethernet 1Gb 2-port 361T Adapter	2021.04.05	1.5.2.0-1OEM.700.1.0.15843807	新規追加
209	HPE Intel igbn Driver for VMware vSphere 7.0	cp045339.zip	HPE Ethernet 1Gb 4-port 366FLR Adapter	2021.04.05	1.5.2.0-1OEM.700.1.0.15843807	新規追加
210	HPE Intel igbn Driver for VMware vSphere 7.0	cp045339.zip	HPE Ethernet 1Gb 4-port 366T Adapter	2021.04.05	1.5.2.0-1OEM.700.1.0.15843807	新規追加
211	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.9.4-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.9.4-1	5.9.4-1.rhel7u8	更新
212	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.9.4-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.9.4-1	5.9.4-1.rhel7u8	更新
213	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.9.4-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.9.4-1	5.9.4-1.rhel7u9	更新
214	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbe-5.9.4-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.9.4-1	5.9.4-1.rhel7u9	更新
215	HPE Intel ixgbe Drivers for	kmod-hp-ixgbe-5.9.4-1.	HPE Ethernet	5.9.4-1	5.9.4-1.rhel8u	更新

	Red Hat Enterprise Linux 8	rhel8u2.x86_64.rpm	10Gb 2-port 562FLR-T Adapter		2	
216	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 8	kmod-hp-ixgbe-5.9.4-1.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.9.4-1	5.9.4-1.rhel8u2	更新
217	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 8	kmod-hp-ixgbe-5.9.4-1.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.9.4-1	5.9.4-1.rhel8u3	更新
218	HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 8	kmod-hp-ixgbe-5.9.4-1.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	5.9.4-1	5.9.4-1.rhel8u3	更新
219	HPE Intel ixgben Driver for VMware vSphere 6.5	cp042679.zip	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	2020.09.14	1.8.7-1OEM.650.0.0.4598673	
220	HPE Intel ixgben Driver for VMware vSphere 6.5	cp042679.zip	HPE Ethernet 10Gb 2-port 562T Adapter	2020.09.14	1.8.7-1OEM.650.0.0.4598673	
221	HPE Intel ixgben Driver for VMware vSphere 6.7	cp042680.zip	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	2020.09.14	1.8.7-1OEM.670.0.0.8169922	
222	HPE Intel ixgben Driver for VMware vSphere 6.7	cp042680.zip	HPE Ethernet 10Gb 2-port 562T Adapter	2020.09.14	1.8.7-1OEM.670.0.0.8169922	
223	HPE Intel ixgben Driver for VMware vSphere 7.0	cp041297.zip	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	2020.05.29	1.8.9.0-1OEM.700.1.0.15525992	
224	HPE Intel ixgben Driver for VMware vSphere 7.0	cp041297.zip	HPE Ethernet 10Gb 2-port 562T Adapter	2020.05.29	1.8.9.0-1OEM.700.1.0.15525992	
225	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.9.3-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.9.3-1	4.9.3-1.rhel7u8	更新
226	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.9.3-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	4.9.3-1	4.9.3-1.rhel7u8	更新
227	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.9.3-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.9.3-1	4.9.3-1.rhel7u9	更新
228	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-hp-ixgbev-4.9.3-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	4.9.3-1	4.9.3-1.rhel7u9	更新
229	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 8	kmod-hp-ixgbev-4.9.3-1.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.9.3-1	4.9.3-1.rhel8u2	更新
230	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 8	kmod-hp-ixgbev-4.9.3-1.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	4.9.3-1	4.9.3-1.rhel8u2	更新
231	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 8	kmod-hp-ixgbev-4.9.3-1.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.9.3-1	4.9.3-1.rhel8u3	更新
232	HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 8	kmod-hp-ixgbev-4.9.3-1.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	4.9.3-1	4.9.3-1.rhel8u3	更新
233	HPE Intel ixS Driver for Windows Server 2012 R2	cp046116.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	3.14.222.0	3.14.222.0	更新
234	HPE Intel ixS Driver for Windows Server 2012 R2	cp046116.exe	HPE Ethernet 10Gb 2-port 562T Adapter	3.14.222.0	3.14.222.0	更新
235	HPE Intel ixS Driver for Windows Server 2016	cp046117.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	4.1.219.0	4.1.219.0	更新
236	HPE Intel ixS Driver for Windows Server 2016	cp046117.exe	HPE Ethernet 10Gb 2-port 562T Adapter	4.1.219.0	4.1.219.0	更新
237	HPE Intel ixS Driver for	cp046118.exe	HPE Ethernet	4.1.219.0	4.1.219.0	更新

	Windows Server 2019		10Gb 2-port 562FLR-T Adapter			
238	HPE Intel ix3 Driver for Windows Server 2019	cp046118.exe	HPE Ethernet 10Gb 2-port 562T Adapter	4.1.219.0	4.1.219.0	更新
239	HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2012 R2	cp045130.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2.60.23957. 0	2.60.23957.0	更新
240	HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2012 R2	cp045130.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2.60.23957. 0	2.60.23957.0	更新
241	HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2012 R2	cp045130.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2.60.23957. 0	2.60.23957.0	更新
242	HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2016	cp045131.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2.60.23957. 0	2.60.23957.0	更新
243	HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2016	cp045131.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2.60.23957. 0	2.60.23957.0	更新
244	HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2016	cp045131.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2.60.23957. 0	2.60.23957.0	更新
245	HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2019	cp045132.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2.60.23957. 0	2.60.23957.0	更新
246	HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2019	cp045132.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2.60.23957. 0	2.60.23957.0	更新
247	HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2019	cp045132.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2.60.23957. 0	2.60.23957.0	更新
248	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 8 (x86_64)	kmod-kernel-mft-mlnx- 4.16.0-1.rhel7u8.x86_6 4.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	4.16	4.16.0-1.rhel7 u8	新規追加
249	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 8 (x86_64)	kmod-kernel-mft-mlnx- 4.16.0-1.rhel7u8.x86_6 4.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	4.16	4.16.0-1.rhel7 u8	更新
250	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 8 (x86_64)	kmod-kernel-mft-mlnx- 4.16.0-1.rhel7u8.x86_6 4.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	4.16	4.16.0-1.rhel7 u8	新規追加
251	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 8 (x86_64)	mft-4.16.0-105.rhel7u8. x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	4.16	4.16.0-105.rh el7u8	新規追加
252	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 8 (x86_64)	mft-4.16.0-105.rhel7u8. x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	4.16	4.16.0-105.rh el7u8	更新

253	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 8 (x86_64)	mft-4.16.0-105.rhel7u8.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	4.16	4.16.0-105.rhel7u8	新規追加
254	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 9 (x86_64)	kmod-kernel-mft-mlnx-4.16.0-1.rhel7u9.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	4.16	4.16.0-1.rhel7u9	新規追加
255	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 9 (x86_64)	kmod-kernel-mft-mlnx-4.16.0-1.rhel7u9.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	4.16	4.16.0-1.rhel7u9	更新
256	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 9 (x86_64)	kmod-kernel-mft-mlnx-4.16.0-1.rhel7u9.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	4.16	4.16.0-1.rhel7u9	新規追加
257	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 9 (x86_64)	mft-4.16.0-105.rhel7u9.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	4.16	4.16.0-105.rhel7u9	新規追加
258	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 9 (x86_64)	mft-4.16.0-105.rhel7u9.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	4.16	4.16.0-105.rhel7u9	更新
259	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 9 (x86_64)	mft-4.16.0-105.rhel7u9.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	4.16	4.16.0-105.rhel7u9	新規追加
260	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 8 Update 2 (x86_64)	kmod-kernel-mft-mlnx-4.16.0-1.rhel8u2.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	4.16	4.16.0-1.rhel8u2	新規追加
261	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 8 Update 2 (x86_64)	kmod-kernel-mft-mlnx-4.16.0-1.rhel8u2.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	4.16	4.16.0-1.rhel8u2	更新
262	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 8 Update 2 (x86_64)	kmod-kernel-mft-mlnx-4.16.0-1.rhel8u2.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	4.16	4.16.0-1.rhel8u2	新規追加
263	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 8 Update 2 (x86_64)	mft-4.16.0-105.rhel8u2.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	4.16	4.16.0-105.rhel8u2	新規追加
264	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 8 Update 2 (x86_64)	mft-4.16.0-105.rhel8u2.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	4.16	4.16.0-105.rhel8u2	更新
265	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 8 Update 2 (x86_64)	mft-4.16.0-105.rhel8u2.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	4.16	4.16.0-105.rhel8u2	新規追加
266	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 8 Update 3 (x86_64)	kmod-kernel-mft-mlnx-4.16.0-1.rhel8u3.x86_64.rpm	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	4.16	4.16.0-1.rhel8u3	新規追加
267	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 8 Update 3 (x86_64)	kmod-kernel-mft-mlnx-4.16.0-1.rhel8u3.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	4.16	4.16.0-1.rhel8u3	新規追加
268	HPE Mellanox MFT Driver and Firmware Tools for Red Hat	mft-4.16.0-105.rhel8u3.x86_64.rpm	HPE 100GbE 1p QSFP28	4.16	4.16.0-105.rhel8u3	新規追加

	Enterprise Linux 8 Update 3 (x86_64)		MCX515A-CCAT Adptr			
269	HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 8 Update 3 (x86_64)	mft-4.16.0-105.rhel8u3.x86_64.rpm	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	4.16	4.16.0-105.rhel8u3	新規追加
270	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 8 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u8.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	5.2	5.2	更新
271	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 8 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u8.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	5.2	5.2	更新
272	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 8 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u8.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	5.2	5.2	更新
273	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 8 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u8.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	5.2	5.2	更新
274	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 8 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u8.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	5.2	5.2	更新
275	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 8 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u8.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	5.2	5.2	更新
276	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 8 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u8.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	5.2	5.2	更新
277	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 8 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u8.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	5.2	5.2	更新
278	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u9.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	5.2	5.2	更新

	ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 9 (x86_64)					
279	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 9 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u9.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	5.2	5.2	更新
280	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 9 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u9.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	5.2	5.2	更新
281	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 9 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u9.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	5.2	5.2	更新
282	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 9 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u9.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	5.2	5.2	更新
283	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 9 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u9.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	5.2	5.2	更新
284	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 9 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u9.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	5.2	5.2	更新
285	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 9 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel7u9.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	5.2	5.2	更新
286	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 8 Update 2 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel8u2.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	5.2	5.2	更新
287	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 8 Update 2 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel8u2.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	5.2	5.2	更新

288	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 8 Update 2 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel8u2.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	5.2	5.2	更新
289	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 8 Update 2 (x86_64)	kmod-mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel8u2.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	5.2	5.2	更新
290	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 8 Update 2 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel8u2.x86_64.rpm	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	5.2	5.2	更新
291	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 8 Update 2 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel8u2.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	5.2	5.2	更新
292	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 8 Update 2 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel8u2.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	5.2	5.2	更新
293	HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 8 Update 2 (x86_64)	mlnx-ofa_kernel-5.2-OFED.5.2.1.0.4.1.rhel8u2.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	5.2	5.2	更新
294	HPE QLogic FastLinQ 10/25/50 GbE Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-qlgc-fastlinq-8.55.5.0-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 521T Adapter	8.55.5.0-1	8.55.5.0-1.rhel7u8	更新
295	HPE QLogic FastLinQ 10/25/50 GbE Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-qlgc-fastlinq-8.55.5.0-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 521T Adapter	8.55.5.0-1	8.55.5.0-1.rhel7u9	更新
296	HPE QLogic FastLinQ 10/25/50 GbE Drivers for Red Hat Enterprise Linux 8	kmod-qlgc-fastlinq-8.55.5.0-1.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 521T Adapter	8.55.5.0-1	8.55.5.0-1.rhel8u2	更新
297	HPE QLogic FastLinQ 10/25/50 GbE Drivers for Red Hat Enterprise Linux 8	kmod-qlgc-fastlinq-8.55.5.0-2.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 521T Adapter	8.55.5.0-1	8.55.5.0-2.rhel8u3	更新
298	HPE QLogic FastLinQ 10/25/50 GbE Drivers for Windows Server x64 Editions	cp044990.exe	HPE Ethernet 10Gb 2-port 521T Adapter	8.55.5.0	8.55.5.0	更新
299	HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 6.5	cp046222.zip	HPE Ethernet 10Gb 2-port 521T Adapter	2021.04.05	3.11.16.0-10E M.650.0.0.45 98673	更新
300	HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 6.7	cp044977.zip	HPE Ethernet 10Gb 2-port 521T Adapter	2021.04.05	3.11.31.0-10E M.670.0.0.81 69922	更新
301	HPE QLogic FastLinQ	cp044976.zip	HPE Ethernet	2021.04.05	3.40.26.0-10E	更新

	10/25/50 GbE Multifunction Driver for VMware vSphere 7.0		10Gb 2-port 521T Adapter		M.700.1.0.15 843807	
302	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5	cp046404.zip	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	2021.04.05	1.1.12.0-10E M.650.0.0.45 98673	新規追加
303	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5	cp046404.zip	HPE Ethernet 10Gb 2-port 530T Adapter	2021.04.05	1.1.12.0-10E M.650.0.0.45 98673	新規追加
304	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5	cp046404.zip	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	2021.04.05	1.1.12.0-10E M.650.0.0.45 98673	更新
305	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.7	cp044987.zip	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	2021.04.05	1.1.12.0-10E M.670.0.0.81 69922	新規追加
306	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.7	cp044987.zip	HPE Ethernet 10Gb 2-port 530T Adapter	2021.04.05	1.1.12.0-10E M.670.0.0.81 69922	新規追加
307	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.7	cp044987.zip	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	2021.04.05	1.1.12.0-10E M.670.0.0.81 69922	更新
308	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 7.0	cp045082.zip	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	2021.04.05	1.4.12.0-10E M.700.1.0.15 843807	新規追加
309	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 7.0	cp045082.zip	HPE Ethernet 10Gb 2-port 530T Adapter	2021.04.05	1.4.12.0-10E M.700.1.0.15 843807	新規追加
310	HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 7.0	cp045082.zip	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	2021.04.05	1.4.12.0-10E M.700.1.0.15 843807	更新
311	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.76-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.76-1	7.14.76-1.rhel7u8	新規追加
312	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.76-1.rhel7u8.x86_64.rpm	HPE Ethernet 10Gb 2-port 530T Adapter	7.14.76-1	7.14.76-1.rhel7u8	新規追加
313	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.76-1.rhel7u8.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.76-1	7.14.76-1.rhel7u8	更新
314	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.76-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.76-1	7.14.76-1.rhel7u9	新規追加
315	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.76-1.rhel7u9.x86_64.rpm	HPE Ethernet 10Gb 2-port 530T Adapter	7.14.76-1	7.14.76-1.rhel7u9	新規追加
316	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64	kmod-netxtreme2-7.14.76-1.rhel7u9.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.76-1	7.14.76-1.rhel7u9	更新
317	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 8	kmod-netxtreme2-7.14.76-1.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.76-1	7.14.76-1.rhel8u2	新規追加
318	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 8	kmod-netxtreme2-7.14.76-1.rhel8u2.x86_64.rpm	HPE Ethernet 10Gb 2-port 530T Adapter	7.14.76-1	7.14.76-1.rhel8u2	新規追加
319	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 8	kmod-netxtreme2-7.14.76-1.rhel8u2.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.76-1	7.14.76-1.rhel8u2	更新
320	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 8	kmod-netxtreme2-7.14.76-1.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	7.14.76-1	7.14.76-1.rhel8u3	新規追加
321	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 8	kmod-netxtreme2-7.14.76-1.rhel8u3.x86_64.rpm	HPE Ethernet 10Gb 2-port 530T Adapter	7.14.76-1	7.14.76-1.rhel8u3	新規追加
322	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 8	kmod-netxtreme2-7.14.76-1.rhel8u3.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.14.76-1	7.14.76-1.rhel8u3	更新

323	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp044989.exe	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	7.13.196.0	7.13.196.0	新規追加
324	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp044989.exe	HPE Ethernet 10Gb 2-port 530T Adapter	7.13.196.0	7.13.196.0	新規追加
325	HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions	cp044989.exe	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	7.13.196.0	7.13.196.0	更新
326	Intel i350 Driver for Windows Server 2016	cp045122.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	12.16.3.1	12.16.3.1	新規追加
327	Intel i350 Driver for Windows Server 2016	cp045122.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	12.16.3.1	12.16.3.1	新規追加
328	Intel i350 Driver for Windows Server 2019	cp045123.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	12.18.11.1	12.18.11.1	新規追加
329	Intel i350 Driver for Windows Server 2019	cp045123.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	12.18.11.1	12.18.11.1	新規追加
330	Intel i40ea Driver for Windows Server 2016	cp045319.exe	HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	1.13.104.0	1.13.104.0	新規追加
331	Intel i40ea Driver for Windows Server 2016	cp045319.exe	HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	1.13.104.0	1.13.104.0	新規追加
332	Intel i40ea Driver for Windows Server 2019	cp045320.exe	HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	1.13.104.0	1.13.104.0	新規追加
333	Intel i40ea Driver for Windows Server 2019	cp045320.exe	HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	1.13.104.0	1.13.104.0	新規追加
334	Intel iavf Driver for Windows Server 2016	cp045022.exe	INT E810 10/25GbE 2p SFP28 Adptr	1.12.9.0	1.12.9.0	新規追加
335	Intel iavf Driver for Windows Server 2019	cp045023.exe	INT E810 10/25GbE 2p SFP28 Adptr	1.12.9.0	1.12.9.0	新規追加
336	Intel ica Driver for Windows Server 2016	cp041200.exe	INT E810 10/25GbE 2p SFP28 Adptr	1.5.74.0	1.5.74.0	新規追加
337	Intel ica Driver for Windows Server 2016	cp041200.exe	INT E810 10/25GbE 2p SFP28 OCP3 Adptr	1.5.74.0	1.5.74.0	新規追加
338	Intel ica Driver for Windows Server 2016	cp041200.exe	INT E810 10/25GbE 4p SFP28 Adptr	1.5.74.0	1.5.74.0	新規追加
339	Intel ica Driver for Windows Server 2019	cp041201.exe	INT E810 10/25GbE 2p SFP28 Adptr	1.5.74.0	1.5.74.0	新規追加
340	Intel ica Driver for Windows Server 2019	cp041201.exe	INT E810 10/25GbE 2p SFP28 OCP3 Adptr	1.5.74.0	1.5.74.0	新規追加
341	Intel ica Driver for Windows Server 2019	cp041201.exe	INT E810 10/25GbE 4p	1.5.74.0	1.5.74.0	新規追加

			SFP28 Adptr			
342	Mellanox CX5 and CX6DX Driver for Windows Server 2016	cp043868.exe	MLX MCX512F 10/25GbE 2p SFP28 Adptr	2.60.23957.0	2.60.23957.0	新規追加
343	Mellanox CX5 and CX6DX Driver for Windows Server 2016	cp043868.exe	MLX MCX562A 10/25GbE 2p SFP28 OCP3 Adptr	2.60.23957.0	2.60.23957.0	新規追加
344	Mellanox CX5 and CX6DX Driver for Windows Server 2019	cp043869.exe	MLX MCX512F 10/25GbE 2p SFP28 Adptr	2.60.23957.0	2.60.23957.0	新規追加
345	Mellanox CX5 and CX6DX Driver for Windows Server 2019	cp043869.exe	MLX MCX562A 10/25GbE 2p SFP28 OCP3 Adptr	2.60.23957.0	2.60.23957.0	新規追加
346	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp046337.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2020.11.11	4.12.0.105-10 EM.650.0.0.4 598673	更新
347	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp046337.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2020.11.11	4.12.0.105-10 EM.650.0.0.4 598673	更新
348	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp046337.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2020.11.11	4.12.0.105-10 EM.650.0.0.4 598673	更新
349	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp046337.zip	MLX MCX562A 10/25GbE 2p SFP28 OCP3 Adptr	2020.11.11	4.12.0.105-10 EM.650.0.0.4 598673	新規追加
350	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp046337.zip	MLX MCX512F 10/25GbE 2p SFP28 Adptr	2020.11.11	4.12.0.105-10 EM.650.0.0.4 598673	新規追加
351	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp046337.zip	HPE IB HDR100/EN 100Gb 2p QSFP56 Adptr	2020.11.11	4.12.0.105-10 EM.650.0.0.4 598673	新規追加
352	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp046337.zip	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	2020.11.11	4.12.0.105-10 EM.650.0.0.4 598673	更新
353	net-mst kernel module driver component for VMware ESXi 6.5 and 6.7	cp046337.zip	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	2020.11.11	4.12.0.105-10 EM.650.0.0.4 598673	新規追加
354	net-mst kernel module driver component for VMware ESXi 7.0	cp046317.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2020.11.11	4.14.3.3-10E M.700.1.0.15 525992	更新
355	net-mst kernel module driver component for VMware ESXi 7.0	cp046317.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2020.11.11	4.14.3.3-10E M.700.1.0.15 525992	更新
356	net-mst kernel module driver component for VMware ESXi 7.0	cp046317.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2020.11.11	4.14.3.3-10E M.700.1.0.15 525992	更新
357	net-mst kernel module driver component for VMware ESXi 7.0	cp046317.zip	MLX MCX562A 10/25GbE 2p SFP28 OCP3 Adptr	2020.11.11	4.14.3.3-10E M.700.1.0.15 525992	新規追加
358	net-mst kernel module driver component for VMware ESXi 7.0	cp046317.zip	MLX MCX512F 10/25GbE 2p SFP28 Adptr	2020.11.11	4.14.3.3-10E M.700.1.0.15 525992	新規追加
359	net-mst kernel module driver component for VMware ESXi	cp046317.zip	HPE IB HDR100/EN	2020.11.11	4.14.3.3-10E M.700.1.0.15	新規追加

	7.0		100Gb 2p QSFP56 Adptr		525992	
360	net-mst kernel module driver component for VMware ESXi 7.0	cp046317.zip	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	2020.11.11	4.14.3.3-10E M.700.1.0.15 525992	更新
361	net-mst kernel module driver component for VMware ESXi 7.0	cp046317.zip	HPE 100GbE 1p QSFP28 MCX515A-CCAT Adptr	2020.11.11	4.14.3.3-10E M.700.1.0.15 525992	新規追加
362	nmlx5_en Driver Component for VMware 6.5	cp046263.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2020.11.11	4.16.70.1-10E M.650.0.0.45 98673	更新
363	nmlx5_en Driver Component for VMware 6.5	cp046263.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2020.11.11	4.16.70.1-10E M.650.0.0.45 98673	更新
364	nmlx5_en Driver Component for VMware 6.5	cp046263.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2020.11.11	4.16.70.1-10E M.650.0.0.45 98673	更新
365	nmlx5_en Driver Component for VMware 6.5	cp046263.zip	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	2020.11.11	4.16.70.1-10E M.650.0.0.45 98673	更新
366	nmlx5_en Driver Component for VMware 6.7	cp046264.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2020.11.11	4.17.70.1-10E M.670.0.0.81 69922	更新
367	nmlx5_en Driver Component for VMware 6.7	cp046264.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2020.11.11	4.17.70.1-10E M.670.0.0.81 69922	更新
368	nmlx5_en Driver Component for VMware 6.7	cp046264.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2020.11.11	4.17.70.1-10E M.670.0.0.81 69922	更新
369	nmlx5_en Driver Component for VMware 6.7	cp046264.zip	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	2020.11.11	4.17.70.1-10E M.670.0.0.81 69922	更新
370	nmlx5_en Driver Component for VMware 7.0	cp046265.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	2020.11.11	4.19.70.1-10E M.700.1.0.15 525992	更新
371	nmlx5_en Driver Component for VMware 7.0	cp046265.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	2020.11.11	4.19.70.1-10E M.700.1.0.15 525992	更新
372	nmlx5_en Driver Component for VMware 7.0	cp046265.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	2020.11.11	4.19.70.1-10E M.700.1.0.15 525992	更新
373	nmlx5_en Driver Component for VMware 7.0	cp046265.zip	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	2020.11.11	4.19.70.1-10E M.700.1.0.15 525992	更新

6.2.5 Driver – Storage

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
374	HPE Smart Array S100i SR Gen10 SW RAID Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp043250.exe	-	106.12.6.0	106.12.6.0	
375	HPE Smart Storage SR100i Gen10 Plus SW RAID Driver for Windows Server 2016, and Windows Server 2019	cp045150.exe	-	106.106.2.1229	106.106.2.1229	新規追加

6.2.6 Driver – Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
376	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u8.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u8	更新
377	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u8.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u8	更新
378	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u8.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u8	更新
379	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u8.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u8	更新
380	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u8.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u8	更新
381	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u8.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u8	更新
382	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u9.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u9	更新
383	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u9.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u9	更新
384	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u9.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u9	更新

385	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u9.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u9	更新
386	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u9.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u9	更新
387	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 7 (64-bit)	kmod-smartpqi-2.1.8-040.rhel7u9.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel7u9	更新
388	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u2.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u2	更新
389	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u2.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u2	更新
390	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u2.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u2	更新
391	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u2.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u2	更新
392	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u2.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u2	更新
393	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u2.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u2	更新
394	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u2.x86_64.rpm	Microchip SR932i-p Cntrl for HPE Gen10+	2.1.8-040	2.1.8-040.rhel8u2	新規追加
395	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u2.x86_64.rpm	Microchip SR416i-a Cntrl for HPE Gen10+	2.1.8-040	2.1.8-040.rhel8u2	新規追加
396	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u3.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u3	更新
397	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u3.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u3	更新

398	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u3.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u3	更新
399	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u3.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u3	更新
400	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u3.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u3	更新
401	HPE ProLiant Gen10 and Gen10Plus Smart Array Controller (64-bit) Driver for Red Hat Enterprise Linux 8 (64-bit)	kmod-smartpqi-2.1.8-040.rhel8u3.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	2.1.8-040	2.1.8-040.rhel8u3	更新
402	HPE Smart Array Gen10 and Gen10Plus Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp044563.exe	HPE Smart Array P408i-a SR Gen10 Controller	106.278.0.1043	106.278.0.1043	更新
403	HPE Smart Array Gen10 and Gen10Plus Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp044563.exe	HPE Smart Array P408i-p SR Gen10 Controller	106.278.0.1043	106.278.0.1043	更新
404	HPE Smart Array Gen10 and Gen10Plus Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp044563.exe	HPE Smart Array P816i-a SR Gen10 Controller	106.278.0.1043	106.278.0.1043	更新
405	HPE Smart Array Gen10 and Gen10Plus Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp044563.exe	HPE Smart Array E208e-p SR Gen10 Controller	106.278.0.1043	106.278.0.1043	更新
406	HPE Smart Array Gen10 and Gen10Plus Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp044563.exe	HPE Smart Array E208i-a SR Gen10 Controller	106.278.0.1043	106.278.0.1043	更新
407	HPE Smart Array Gen10 and Gen10Plus Controller Driver for Windows Server 2012 R2, Windows Server 2016, and Windows Server 2019	cp044563.exe	HPE Smart Array E208i-p SR Gen10 Controller	106.278.0.1043	106.278.0.1043	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
408	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2012R2	cp044863.exe	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	新規追加
409	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2012R2	cp044863.exe	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	新規追加

410	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2012R2	cp044863.exe	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	新規追加
411	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2012R2	cp044863.exe	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	新規追加
412	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2016	cp044734.exe	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	新規追加
413	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2016	cp044734.exe	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	新規追加
414	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2016	cp044734.exe	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	新規追加
415	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2016	cp044734.exe	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	新規追加
416	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2016	cp044734.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	更新
417	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2016	cp044734.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	更新
418	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp044733.exe	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	更新
419	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp044733.exe	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	更新
420	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp044733.exe	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	更新
421	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp044733.exe	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	更新
422	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp044733.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	更新

423	HPE Storage Fibre Channel Adapter Kit for the x64 Emulex Storport Driver for Microsoft Windows Server 2019	cp044733.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.334.6	12.8.334.6	更新
424	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2012 R2	cp044785.exe	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	9.4.1.20 (b)	9.4.1.20 (b)	更新
425	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2012 R2	cp044785.exe	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	9.4.1.20 (b)	9.4.1.20 (b)	更新
426	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2012 R2	cp044785.exe	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	9.4.1.20 (b)	9.4.1.20 (b)	更新
427	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2012 R2	cp044785.exe	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	9.4.1.20 (b)	9.4.1.20 (b)	更新
428	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2016	cp044786.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
429	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2016	cp044786.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
430	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2016	cp044786.exe	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
431	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2016	cp044786.exe	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
432	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2016	cp044786.exe	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
433	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2016	cp044786.exe	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
434	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019	cp044787.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
435	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019	cp044787.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
436	HPE Storage Fibre Channel	cp044787.exe	HPE SN1100Q	9.4.2.20	9.4.2.20	更新

	Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019		16Gb Dual Port Fibre Channel Host Bus Adapter			
437	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019	cp044787.exe	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
438	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019	cp044787.exe	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
439	HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2019	cp044787.exe	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	9.4.2.20	9.4.2.20	更新
440	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u8.x86_64.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u8	更新
441	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u8.x86_64.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u8	更新
442	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u8.x86_64.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u8	更新
443	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u8.x86_64.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u8	更新
444	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u8.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u8	更新
445	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u8.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u8	更新
446	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.01.00.a14_k1-1.rhel7u8.x86_64.rpm	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel7u8	更新
447	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.02.01.00.a14_k1-1.rhel7u8.x86_64.rpm	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel7u8	更新
448	Red Hat Enterprise Linux 7	kmod-qlgc-qla2xxx-10.0	HPE SN1600Q	10.02.01.00.	10.02.01.00.a	更新

	Update 8 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	2.01.00.a14_k1-1.rhel7u8.x86_64.rpm	32Gb Dual Port Fibre Channel Host Bus Adapter	a14-k1	14_k1-1.rhel7u8	
449	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel7u8.x86_64.rpm	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel7u8	更新
450	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel7u8.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel7u8	更新
451	Red Hat Enterprise Linux 7 Update 8 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel7u8.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel7u8	更新
452	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u9.x86_64.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u9	更新
453	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u9.x86_64.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u9	更新
454	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u9.x86_64.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u9	更新
455	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u9.x86_64.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u9	更新
456	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u9.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u9	更新
457	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel7u9.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7u9	更新
458	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel7u9.x86_64.rpm	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel7u9	更新
459	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel7u9.x86_64.rpm	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel7u9	更新
460	Red Hat Enterprise Linux 7	kmod-qlgc-qla2xxx-10.0	HPE SN1600Q	10.02.01.00.	10.02.01.00.a	更新

	Update 9 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	2.01.00.a14_k1-1.rhel7u9.x86_64.rpm	32Gb Dual Port Fibre Channel Host Bus Adapter	a14-k1	14_k1-1.rhel7u9	
461	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel7u9.x86_64.rpm	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel7u9	更新
462	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel7u9.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel7u9	更新
463	Red Hat Enterprise Linux 7 Update 9 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel7u9.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel7u9	更新
464	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u2.x86_64.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u2	更新
465	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u2.x86_64.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u2	更新
466	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u2.x86_64.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u2	更新
467	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u2.x86_64.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u2	更新
468	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u2.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u2	更新
469	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u2.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u2	更新
470	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel8u2.x86_64.rpm	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel8u2	更新
471	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel8u2.x86_64.rpm	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel8u2	更新
472	Red Hat Enterprise Linux 8	kmod-qlgc-qla2xxx-10.0	HPE SN1600Q	10.02.01.00.	10.02.01.00.a	更新

	Update 2 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	2.01.00.a14_k1-1.rhel8u2.x86_64.rpm	32Gb Dual Port Fibre Channel Host Bus Adapter	a14-k1	14_k1-1.rhel8u2	
473	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel8u2.x86_64.rpm	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel8u2	更新
474	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel8u2.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel8u2	更新
475	Red Hat Enterprise Linux 8 Update 2 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel8u2.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel8u2	更新
476	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u3.x86_64.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u3	更新
477	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u3.x86_64.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u3	更新
478	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u3.x86_64.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u3	更新
479	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u3.x86_64.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u3	更新
480	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u3.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u3	更新
481	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE Emulex Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-elx-lpfc-12.8.352.11-1.rhel8u3.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8u3	更新
482	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel8u3.x86_64.rpm	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel8u3	更新
483	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel8u3.x86_64.rpm	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel8u3	更新
484	Red Hat Enterprise Linux 8	kmod-qlgc-qla2xxx-10.0	HPE SN1600Q	10.02.01.00.	10.02.01.00.a	更新

	Update 3 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	2.01.00.a14_k1-1.rhel8 u3.x86_64.rpm	32Gb Dual Port Fibre Channel Host Bus Adapter	a14-k1	14_k1-1.rhel8 u3	
485	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel8 u3.x86_64.rpm	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel8 u3	更新
486	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel8 u3.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel8 u3	更新
487	Red Hat Enterprise Linux 8 Update 3 Server Fibre Channel Driver Kit for HPE QLogic Host Bus Adapters and Mezzanine Host Bus Adapters	kmod-qlgc-qla2xxx-10.0.2.01.00.a14_k1-1.rhel8 u3.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	10.02.01.00.a14-k1	10.02.01.00.a14_k1-1.rhel8 u3	更新

6.2.8 Driver - System

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
488	HPE Non-Volatile Memory Drivers for Microsoft Windows Server 2012 R2 and 2016	cp042922.exe	-	3.0.2.0	3.0.2.0	更新

6.2.9 Driver - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
489	iLO 5 Automatic Server Recovery Driver for Windows Server 2012 R2	cp046491.exe	-	4.7.1.0	4.7.1.0	更新
490	iLO 5 Automatic Server Recovery Driver for Windows Server 2016 and Server 2019	cp046492.exe	-	4.7.1.0	4.7.1.0	更新
491	iLO 5 Channel Interface Driver for Windows Server 2012 R2	cp046356.exe	-	4.7.1.0	4.7.1.0	更新
492	iLO 5 Channel Interface Driver for Windows Server 2016 and Server 2019	cp046333.exe	-	4.7.1.0	4.7.1.0	更新

6.2.10 Driver - Video

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
493	Matrox G200eH3 Video Controller Driver for Windows Server 2012 R2	cp040214.exe	-	9.15.1.224 (B)	9.15.1.224 (B)	
494	Matrox G200eH3 Video Controller Driver for Windows Server 2016 and Server 2019	cp041584.exe	-	9.15.1.224 (C)	9.15.1.224 (C)	更新

6.2.11 Firmware - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
495	Language Pack - Japanese	cp047264.exe	Japanese Language Pack	2.42	2.42.08	更新
496	Language Pack - Japanese	firmware-ilo5-lpk-ja-ri1-1-2.42-1.1.x86_64.rpm	Japanese Language Pack	2.42	2.42.08	更新

497	Online ROM Flash Component for Linux - iLO 5	firmware-ilo5-2.42-1.1.x86_64.rpm	iLO 5	2.42	2.42	更新
498	Online ROM Flash Component for Windows x64 - iLO 5	cp047078.exe	iLO 5	2.42	2.42	更新
499	Online ROM Flash Firmware Package - iLO 5	ilo5_242.fwpkg	iLO 5	2.42	2.42	更新

6.2.12 Firmware – Network

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
500	Broadcom Firmware Package for BCM5741x adapters	bcm218.0.166.0.pup.fw pkg	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	218.0.166.0	218.0.166.0	新規追加
501	Broadcom Firmware Package for BCM5741x adapters	bcm218.0.166.0.pup.fw pkg	BCM 57416 10GbE 2p BASE-T Adptr	218.0.166.0	218.0.166.0	新規追加
502	Broadcom Firmware Package for BCM5741x adapters	bcm218.0.166.0.pup.fw pkg	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	218.0.166.0	218.0.166.0	新規追加
503	Broadcom Firmware Package for BCM5741x adapters	bcm218.0.166.0.pup.fw pkg	BCM 57412 10GbE 2p SFP+ Adptr	218.0.166.0	218.0.166.0	新規追加
504	HPE Broadcom NetXtreme-E Firmware Package for BCM5741x adapters	bcm218.0.166000.Optimized.pup.fw pkg	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	218.0.166000	218.0.166000	更新
505	HPE Broadcom NetXtreme-E Firmware Package for BCM5741x adapters	bcm218.0.166000.Optimized.pup.fw pkg	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	218.0.166000	218.0.166000	更新
506	HPE Broadcom NetXtreme-E Firmware Package for BCM5741x adapters	bcm218.0.166000.Optimized.pup.fw pkg	HPE Ethernet 10Gb 2-port 537SFP+ FLR Adapter	218.0.166000	218.0.166000	更新
507	HPE Broadcom NetXtreme-E Firmware Package for BCM5741x adapters	bcm218.0.166000.Optimized.pup.fw pkg	HPE Ethernet 10Gb 2-port 537SFP+ Adapter	218.0.166000	218.0.166000	更新
508	HPE Broadcom NetXtreme-E Firmware Package for BCM5741x adapters	bcm218.0.166000.Optimized.pup.fw pkg	HPE Ethernet 10Gb 2-port 535T Adapter	218.0.166000	218.0.166000	新規追加
509	HPE Broadcom NetXtreme-E Firmware Package for BCM5741x adapters	bcm218.0.166000.Optimized.pup.fw pkg	HPE Ethernet 10Gb 2-port 535FLR-T Adapter	218.0.166000	218.0.166000	新規追加
510	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.27.6-1.1.x86_64.rpm	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	2.27.6	20.18.31	更新
511	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.27.6-1.1.x86_64.rpm	HP Ethernet 1Gb 2-port 332T Adapter	2.27.6	20.18.31	更新
512	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.27.6-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331FLR Adapter	2.27.6	20.18.31	更新
513	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.27.6-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331T Adapter	2.27.6	20.18.31	更新
514	HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-broadcom-2.27.6-1.1.x86_64.rpm	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	2.27.6	20.18.31	更新
515	HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP045013.zip	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	1.28.6	20.18.31	更新

516	HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP045013.zip	HP Ethernet 1Gb 2-port 332T Adapter	1.28.6	20.18.31	更新
517	HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP045013.zip	HP Ethernet 1Gb 4-port 331FLR Adapter	1.28.6	20.18.31	更新
518	HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP045013.zip	HP Ethernet 1Gb 4-port 331T Adapter	1.28.6	20.18.31	更新
519	HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware	CP045013.zip	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	1.28.6	20.18.31	更新
520	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045014.exe	HP Ethernet 1Gb 2-port 332i Adapter (22E8)	5.2.4.0	20.18.31	更新
521	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045014.exe	HP Ethernet 1Gb 2-port 332T Adapter	5.2.4.0	20.18.31	更新
522	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045014.exe	HP Ethernet 1Gb 4-port 331FLR Adapter	5.2.4.0	20.18.31	更新
523	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045014.exe	HP Ethernet 1Gb 4-port 331T Adapter	5.2.4.0	20.18.31	更新
524	HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045014.exe	HP Ethernet 1Gb 4-port 331i Adapter (22BE)	5.2.4.0	20.18.31	更新
525	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.21.6-1.1.x86_64.rpm	HPE Ethernet 1Gb 4-port 369i Adapter	1.21.6	1.2836.0	更新
526	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.21.6-1.1.x86_64.rpm	HPE Ethernet 1Gb 2-port 361T Adapter	1.21.6	1.2836.0	新規追加
527	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.21.6-1.1.x86_64.rpm	HPE Ethernet 1Gb 4-port 366FLR Adapter	1.21.6	1.2836.0	新規追加
528	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.21.6-1.1.x86_64.rpm	HPE Ethernet 1Gb 4-port 366T Adapter	1.21.6	1.2836.0	新規追加
529	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.21.6-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	1.21.6	10.54.7	更新
530	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.21.6-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	1.21.6	10.54.4	更新
531	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.21.6-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	1.21.6	10.54.7	更新
532	HPE Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-intel-1.21.6-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 562T Adapter	1.21.6	10.54.4	更新
533	HPE Intel Online Firmware Upgrade Utility for VMware	CP045036.zip	HPE Ethernet 1Gb 4-port 369i Adapter	3.14.5	1.2836.0	更新
534	HPE Intel Online Firmware Upgrade Utility for VMware	CP045036.zip	HPE Ethernet 1Gb 2-port 361T Adapter	3.14.5	1.2836.0	新規追加
535	HPE Intel Online Firmware Upgrade Utility for VMware	CP045036.zip	HPE Ethernet 1Gb 4-port 366FLR Adapter	3.14.5	1.2836.0	新規追加
536	HPE Intel Online Firmware Upgrade Utility for VMware	CP045036.zip	HPE Ethernet 1Gb 4-port 366T Adapter	3.14.5	1.2836.0	新規追加

537	HPE Intel Online Firmware Upgrade Utility for VMware	CP045036.zip	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	3.14.5	10.54.7	更新
538	HPE Intel Online Firmware Upgrade Utility for VMware	CP045036.zip	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	3.14.5	10.54.4	更新
539	HPE Intel Online Firmware Upgrade Utility for VMware	CP045036.zip	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	3.14.5	10.54.7	更新
540	HPE Intel Online Firmware Upgrade Utility for VMware	CP045036.zip	HPE Ethernet 10Gb 2-port 562T Adapter	3.14.5	10.54.4	更新
541	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045037.exe	HPE Ethernet 1Gb 4-port 369i Adapter	5.2.4.0	1.2836.0	更新
542	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045037.exe	HPE Ethernet 1Gb 2-port 361T Adapter	5.2.4.0	1.2836.0	新規追加
543	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045037.exe	HPE Ethernet 1Gb 4-port 366FLR Adapter	5.2.4.0	1.2836.0	新規追加
544	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045037.exe	HPE Ethernet 1Gb 4-port 366T Adapter	5.2.4.0	1.2836.0	新規追加
545	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045037.exe	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	5.2.4.0	10.54.7	更新
546	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045037.exe	HPE Ethernet 10Gb 2-port 562FLR-T Adapter	5.2.4.0	10.54.4	更新
547	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045037.exe	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	5.2.4.0	10.54.7	更新
548	HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp045037.exe	HPE Ethernet 10Gb 2-port 562T Adapter	5.2.4.0	10.54.4	更新
549	HPE QLogic FastLinQ Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-flq-1.10.10-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 521T Adapter	1.10.10	8.55.12	更新
550	HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware	CP046982.zip	HPE Ethernet 10Gb 2-port 521T Adapter	4.13.50	8.55.12	更新
551	HPE QLogic FastLinQ Online Firmware Upgrade Utility for Windows Server x64 Editions	cp044812.exe	HPE Ethernet 10Gb 2-port 521T Adapter	5.2.4.0	8.55.12	更新
552	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.28.6-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	2.28.6	7.18.80	新規追加
553	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.28.6-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port 530T Adapter	2.28.6	7.18.80	新規追加
554	HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-qlogic-nx2-2.28.6-1.1.x86_64.rpm	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	2.28.6	7.18.80	更新
555	HPE QLogic NX2 Online Firmware Upgrade Utility for VMware	CP044814.zip	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	1.28.6	7.18.80	新規追加
556	HPE QLogic NX2 Online Firmware Upgrade Utility for VMware	CP044814.zip	HPE Ethernet 10Gb 2-port 530T Adapter	1.28.6	7.18.80	新規追加
557	HPE QLogic NX2 Online Firmware Upgrade Utility for VMware	CP044814.zip	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	1.28.6	7.18.80	更新

558	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp044815.exe	HPE Ethernet 10Gb 2-port 530SFP+ Adapter	5.2.4.0	7.18.80	新規追加
559	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp044815.exe	HPE Ethernet 10Gb 2-port 530T Adapter	5.2.4.0	7.18.80	新規追加
560	HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions	cp044815.exe	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	5.2.4.0	7.18.80	更新
561	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter	HPE_E810_XXVDA2_SD_2p24_PLDMoMCTP_800059DF.fwpkg	Intel E810-XXVDA2 adapter	2.24	2.24	新規追加
562	Intel Firmware Package For E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter	HPE_E810_XXVDA2_SD_OCP_2p24_NCSlwPLDMoMCTP_800059DE.fw pkg	Intel E810-XXVDA2 OCP3 adapter	2.24	2.24	新規追加
563	Intel Firmware Package For E810-XXVDA4 Ethernet 10/25Gb 2-port SFP28 Adapter	HPE_E810_XXVDA4_FH_2p24_PLDMoMCTP_800059D9.fwpkg	Intel E810-XXVDA4 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	2.24	2.24	新規追加
564	Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-is-intel-1.2.2.11-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	1.22.11	1.2829.0	新規追加
565	Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-is-intel-1.2.2.11-1.1.x86_64.rpm	HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	1.22.11	1.2829.0	新規追加
566	Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-is-intel-1.2.2.11-1.1.x86_64.rpm	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	1.22.11	1.2839.0	新規追加
567	Intel Online Firmware Upgrade Utility for Linux x86_64	firmware-nic-is-intel-1.2.2.11-1.1.x86_64.rpm	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	1.22.11	1.2839.0	新規追加
568	Intel Online Firmware Upgrade Utility for VMware	CP044896.zip	HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	3.15.8	1.2829.0	新規追加
569	Intel Online Firmware Upgrade Utility for VMware	CP044896.zip	HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	3.15.8	1.2829.0	新規追加
570	Intel Online Firmware Upgrade Utility for VMware	CP044896.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T Adapter for HPE	3.15.8	1.2839.0	新規追加
571	Intel Online Firmware Upgrade Utility for VMware	CP044896.zip	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	3.15.8	1.2839.0	新規追加
572	Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp044897.exe	HPE Ethernet 10Gb 2-port SFP+ OCP3 X710-DA2 Adapter	5.2.4.0	1.2829.0	新規追加
573	Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp044897.exe	HPE Ethernet 10Gb 2-port SFP+ X710-DA2 Adapter	5.2.4.0	1.2829.0	新規追加
574	Intel Online Firmware Upgrade Utility for Windows	cp044897.exe	Intel I350-T4 Ethernet 1Gb	5.2.4.0	1.2839.0	新規追加

	Server x64 Editions		4-port BASE-T Adapter for HPE			
575	Intel Online Firmware Upgrade Utility for Windows Server x64 Editions	cp044897.exe	Intel I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	5.2.4.0	1.2839.0	新規追加
576	Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox Ethernet only adapters	CP045192.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.0.9	14.29.1016	更新
577	Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox Ethernet only adapters	CP045192.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.9	14.29.1016	更新
578	Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 6.5	CP045145.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.8	16.29.1016	更新
579	Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX6 devices on VMware ESXi 6.5	CP044869.zip	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	1.0.1	20.29.1016	更新
580	Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox Ethernet only adapters	CP045193.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.0.5	14.29.1016	更新
581	Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox Ethernet only adapters	CP045193.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.5	14.29.1016	更新
582	Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 6.7	CP045146.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.4	16.29.1016	更新
583	Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX6 devices on VMware ESXi 6.7	CP044870.zip	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	1.0.1	20.29.1016	更新
584	Online Firmware Upgrade Utility (ESXi 7.0) for HPE Mellanox Ethernet only adapters	CP045194.zip	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.0.1	14.29.1016	更新
585	Online Firmware Upgrade Utility (ESXi 7.0) for HPE Mellanox Ethernet only adapters	CP045194.zip	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.1	14.29.1016	更新
586	Online Firmware Upgrade Utility (ESXi 7.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 7.0	CP045147.zip	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.1	16.29.1016	更新
587	Online Firmware Upgrade Utility (ESXi 7.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX6 devices on VMware ESXi 7.0	CP044871.zip	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	1.0.1	20.29.1016	更新
588	Online Firmware Upgrade Utility (Linux x86_64) for HPE	firmware-nic-mellanox-ethernet-only-1.0.14-1.	HPE Ethernet 25Gb 2-port 640	1.0.14	14.29.1016	更新

	Mellanox Ethernet only adapters	1.x86_64.rpm	FLR-SFP28 Adapter			
589	Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox Ethernet only adapters	firmware-nic-mellanox-ethernet-only-1.0.14-1.x86_64.rpm	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.14	14.29.1016	更新
590	Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on Linux x86_64 platform	firmware-hca-mellanox-vpi-connectx4-1.0.10-1.x86_64.rpm	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.10	16.29.1016	更新
591	Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX6 devices on Linux x86_64 platform	firmware-hca-mellanox-vpi-connectx6-mft-1.0.6-1.1.x86_64.rpm	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	1.0.6	20.29.1016	更新
592	Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox Ethernet only adapters	cp045195.exe	HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter	1.0.0.14	14.29.1016	更新
593	Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox Ethernet only adapters	cp045195.exe	HPE Ethernet 25Gb 2-port 640SFP28 Adapter	1.0.0.14	14.29.1016	更新
594	Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on Windows x86_64 platform	cp045148.exe	HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter	1.0.0.9	16.29.1016	更新
595	Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX6 devices on Windows x86_64 platform	cp044872.exe	HPE InfiniBand HDR100/Ethernet 100Gb 2-port 940QSFP56 x16 Adapter	1.0.0.3	20.29.1016	更新

6.2.13 Firmware - PCIe NVMe Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
596	Online NVMe SDD Flash Component for VMware ESXi - MZPLJ1T6HBJR-000, MZPLJ3T2HBJR-000 and MZPLJ6T4HALA-000 Drives	CP046696.zip	MZPLJ1T6HBJR-000	4H3Q (B)	4H3Q	新規追加
597	Online NVMe SDD Flash Component for VMware ESXi - MZPLJ1T6HBJR-000, MZPLJ3T2HBJR-000 and MZPLJ6T4HALA-000 Drives	CP046696.zip	MZPLJ3T2HBJR-000	4H3Q (B)	4H3Q	新規追加
598	Online NVMe SDD Flash Component for VMware ESXi - MZPLJ1T6HBJR-000, MZPLJ3T2HBJR-000 and MZPLJ6T4HALA-000 Drives	CP046696.zip	MZPLJ6T4HALA-000	4H3Q (B)	4H3Q	新規追加
599	Online NVMe SDD Flash Component for VMware ESXi - MZPLJ1T6HBJR-000H3, MZPLJ3T2HBJR-000H3 and MZPLJ6T4HALA-000H3 Drives	CP046470.zip	MZPLJ1T6HBJR-000H3	EPK74H3Q	EPK74H3Q	新規追加
600	Online NVMe SDD Flash Component for VMware ESXi - MZPLJ1T6HBJR-000H3,	CP046470.zip	MZPLJ3T2HBJR-000H3	EPK74H3Q	EPK74H3Q	新規追加

	MZPLJ3T2HBJR-000H3 and MZPLJ6T4HALA-000H3 Drives					
601	Online NVMe SDD Flash Component for VMware ESXi - MZPLJ1T6HBJR-000H3, MZPLJ3T2HBJR-000H3 and MZPLJ6T4HALA-000H3 Drives	CP046470.zip	MZPLJ6T4HALA-000H3	EPK74H3Q	EPK74H3Q	新規追加
602	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	CP046694.zip	MZXL5800HBHQ-000	3H5Q (B)	3H5Q	新規追加
603	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	CP046694.zip	MZXL51T6HBJR-000	3H5Q (B)	3H5Q	新規追加
604	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	CP046694.zip	MZXL53T2HBLS-000	3H5Q (B)	3H5Q	新規追加
605	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	CP046694.zip	MZXL56T4HALA-000	3H5Q (B)	3H5Q	新規追加
606	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	CP046694.zip	MZXL5960HBHQ-000	3H5Q (B)	3H5Q	新規追加

	MZXL515THALA-000 Drives					
607	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBL5-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBL5-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	CP046694.zip	MZXL51T9HBJR-000	3H5Q (B)	3H5Q	新規追加
608	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBL5-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBL5-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	CP046694.zip	MZXL53T8HBL5-000	3H5Q (B)	3H5Q	新規追加
609	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBL5-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBL5-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	CP046694.zip	MZXL57T6HALA-000	3H5Q (B)	3H5Q	新規追加
610	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBL5-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBL5-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	CP046694.zip	MZXL515THALA-000	3H5Q (B)	3H5Q	新規追加
611	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBL5-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBL5-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	CP046694.zip	MZXL512THALA-000	3H5Q (B)	3H5Q	新規追加
612	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBL5-000H3,	CP046468.zip	MZXL5800HBHQ-000H3	MPK73H5Q	MPK73H5Q	新規追加

	MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv					
613	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	CP046468.zip	MZXL51T6HBJR-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
614	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	CP046468.zip	MZXL53T2HBLS-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
615	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	CP046468.zip	MZXL56T4HALA-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
616	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	CP046468.zip	MZXL5960HBHQ- 000H3	MPK73H5Q	MPK73H5Q	新規追加
617	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and	CP046468.zip	MZXL51T9HBJR-0 00H3	MPK73H5Q	MPK73H5Q	新規追加

	MZXL515THALA-00H3 Driv					
618	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	CP046468.zip	MZXL53T8HBLS-000H3	MPK73H5Q	MPK73H5Q	新規追加
619	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	CP046468.zip	MZXL57T6HALA-000H3	MPK73H5Q	MPK73H5Q	新規追加
620	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	CP046468.zip	MZXL515THALA-000H3	MPK73H5Q	MPK73H5Q	新規追加
621	Online NVMe SDD Flash Component for VMware ESXi - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	CP046468.zip	MZXL512THALA-000H3	MPK73H5Q	MPK73H5Q	新規追加
622	Online NVMe SDD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP046728.zip	VO001000KWJSE	4ICDHPK1	4ICDHPK1	新規追加
623	Online NVMe SDD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP046728.zip	VO002000KWJSF	4ICDHPK1	4ICDHPK1	新規追加
624	Online NVMe SDD Flash	CP046728.zip	VO004000KWJSH	4ICDHPK1	4ICDHPK1	新規追加

	Component for VMware ESXi - VO001000KWJSE, VO002000KWJSE, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives					
625	Online NVMe SDD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSE, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP046728.zip	VT004000KWJSU	4ICDHPK1	4ICDHPK1	新規追加
626	Online NVMe SDD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSE, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP046728.zip	MO001600KWJSN	4ICDHPK1	4ICDHPK1	新規追加
627	Online NVMe SDD Flash Component for VMware ESXi - VO001000KWJSE, VO002000KWJSE, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	CP046728.zip	MO003200KWJSQ	4ICDHPK1	4ICDHPK1	新規追加
628	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	cp046693.exe	MZXL5800HBHQ-000	3H5Q (B)	3H5Q	新規追加
629	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	cp046693.exe	MZXL51T6HBJR-000	3H5Q (B)	3H5Q	新規追加
630	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and	cp046693.exe	MZXL53T2HBLS-000	3H5Q (B)	3H5Q	新規追加

	MZXL515THALA-000 Drives					
631	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	cp046693.exe	MZXL56T4HALA-000	3H5Q (B)	3H5Q	新規追加
632	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	cp046693.exe	MZXL512THALA-000	3H5Q (B)	3H5Q	新規追加
633	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	cp046693.exe	MZXL5960HBHQ-000	3H5Q (B)	3H5Q	新規追加
634	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	cp046693.exe	MZXL51T9HBJR-000	3H5Q (B)	3H5Q	新規追加
635	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	cp046693.exe	MZXL53T8HBLS-000	3H5Q (B)	3H5Q	新規追加
636	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000,	cp046693.exe	MZXL57T6HALA-000	3H5Q (B)	3H5Q	新規追加

	MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives					
637	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-000 Drives	cp046693.exe	MZXL515THALA-000	3H5Q (B)	3H5Q	新規追加
638	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-0 Drive	cp046469.exe	MZXL5800HBHQ-000H3	MPK73H5Q	MPK73H5Q	新規追加
639	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-0 Drive	cp046469.exe	MZXL51T6HBJR-000H3	MPK73H5Q	MPK73H5Q	新規追加
640	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-0 Drive	cp046469.exe	MZXL53T2HBLS-000H3	MPK73H5Q	MPK73H5Q	新規追加
641	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3,	cp046469.exe	MZXL56T4HALA-000H3	MPK73H5Q	MPK73H5Q	新規追加

	MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-0 Drive					
642	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-0 Drive	cp046469.exe	MZXL512THALA-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
643	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-0 Drive	cp046469.exe	MZXL5960HBHQ- 000H3	MPK73H5Q	MPK73H5Q	新規追加
644	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-0 Drive	cp046469.exe	MZXL51T9HBJR-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
645	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-0 Drive	cp046469.exe	MZXL53T8HBLS-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
646	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3,	cp046469.exe	MZXL57T6HALA-0 00H3	MPK73H5Q	MPK73H5Q	新規追加

	MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-0 Drive					
647	Online NVMe SDD Flash Component for Windows (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-0 Drive	cp046469.exe	MZXL515THALA-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
648	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c 780-HPK4-5.1.x86_64.r pm	LO0400KEFJQ	HPK4 (E)	HPK4	
649	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c 780-HPK4-5.1.x86_64.r pm	LO0800KEFJR	HPK4 (E)	HPK4	
650	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c 780-HPK4-5.1.x86_64.r pm	LO1600KEFJT	HPK4 (E)	HPK4	
651	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c 780-HPK4-5.1.x86_64.r pm	LO2000KEFJU	HPK4 (E)	HPK4	
652	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c 780-HPK4-5.1.x86_64.r pm	LT0800KEXVA	HPK4 (E)	HPK4	
653	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c 780-HPK4-5.1.x86_64.r pm	LT1600KEXVB	HPK4 (E)	HPK4	
654	Online NVMe SSD Flash Component for Linux (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB and LT2000KEXVC Drives	firmware-hdd-d64642c 780-HPK4-5.1.x86_64.r pm	LT2000KEXVC	HPK4 (E)	HPK4	
655	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and	firmware-hdd-b45e496 79c-HPK4-5.1.x86_64.rp m	VK001920KWDUH	HPK4 (E)	HPK4	更新

	VK001920KWDUH Drives					
656	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-5.1.x86_64.rpm	MK001600KWDUN	HPK4 (E)	HPK4	更新
657	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-5.1.x86_64.rpm	VK000960KWDUF	HPK4 (E)	HPK4	更新
658	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-5.1.x86_64.rpm	MK000800KWDUL	HPK4 (E)	HPK4	更新
659	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-5.1.x86_64.rpm	VK000480KWDUE	HPK4 (E)	HPK4	更新
660	Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	firmware-hdd-b45e49679c-HPK4-5.1.x86_64.rpm	MK000400KWDUK	HPK4 (E)	HPK4	更新
661	Online NVMe SSD Flash Component for Linux (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	firmware-hdd-54addf5312-HPK3-5.1.x86_64.rpm	MK000800KWWFE	HPK3 (E)	HPK3	新規追加
662	Online NVMe SSD Flash Component for Linux (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	firmware-hdd-54addf5312-HPK3-5.1.x86_64.rpm	MK001600KWWFF	HPK3 (E)	HPK3	新規追加
663	Online NVMe SSD Flash Component for Linux (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH,	firmware-hdd-54addf5312-HPK3-5.1.x86_64.rpm	MK003200KWWFH	HPK3 (E)	HPK3	新規追加

	MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives					
664	Online NVMe SSD Flash Component for Linux (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	firmware-hdd-54addf53 12-HPK3-5.1.x86_64.rp m	MK006400KWWF K	HPK3 (E)	HPK3	新規追加
665	Online NVMe SSD Flash Component for Linux (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	firmware-hdd-54addf53 12-HPK3-5.1.x86_64.rp m	VK000960KWWFL	HPK3 (E)	HPK3	新規追加
666	Online NVMe SSD Flash Component for Linux (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	firmware-hdd-54addf53 12-HPK3-5.1.x86_64.rp m	VK001920KWWF N	HPK3 (E)	HPK3	新規追加
667	Online NVMe SSD Flash Component for Linux (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	firmware-hdd-54addf53 12-HPK3-5.1.x86_64.rp m	VK003840KWWFP	HPK3 (E)	HPK3	新規追加
668	Online NVMe SSD Flash Component for Linux (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	firmware-hdd-54addf53 12-HPK3-5.1.x86_64.rp m	VK007680KWWF Q	HPK3 (E)	HPK3	新規追加
669	Online NVMe SSD Flash Component for Linux (x64) - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	firmware-hdd-cea219e4 b1-HPK3-1.1.x86_64.rp m	MO001600KVVN B	HPK3	HPK3	更新
670	Online NVMe SSD Flash Component for Linux (x64) - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	firmware-hdd-cea219e4 b1-HPK3-1.1.x86_64.rp m	MO003200KVVN C	HPK3	HPK3	更新

	MO003200KWVNC, MO006400KWVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives					
671	Online NVMe SSD Flash Component for Linux (x64) - MO001600KWVNB, MO003200KWVNC, MO006400KWVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	firmware-hdd-cea219e4 b1-HPK3-1.1.x86_64.rp m	MO006400KWVND	HPK3	HPK3	更新
672	Online NVMe SSD Flash Component for Linux (x64) - MO001600KWVNB, MO003200KWVNC, MO006400KWVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	firmware-hdd-cea219e4 b1-HPK3-1.1.x86_64.rp m	MT001600KWSTB	HPK3	HPK3	更新
673	Online NVMe SSD Flash Component for Linux (x64) - MO001600KWVNB, MO003200KWVNC, MO006400KWVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	firmware-hdd-cea219e4 b1-HPK3-1.1.x86_64.rp m	MT003200KWSTC	HPK3	HPK3	更新
674	Online NVMe SSD Flash Component for Linux (x64) - MO001600KWVNB, MO003200KWVNC, MO006400KWVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	firmware-hdd-cea219e4 b1-HPK3-1.1.x86_64.rp m	MT006400KWSTD	HPK3	HPK3	更新
675	Online NVMe SSD Flash Component for Linux (x64) - MO001600KWZQP and MO003200KWZQQ Drives	firmware-hdd-95b6ae2 e85-HPK5-1.1.x86_64.r pm	MO001600KWZQP	HPK5	HPK5	新規追加
676	Online NVMe SSD Flash Component for Linux (x64) - MO001600KWZQP and MO003200KWZQQ Drives	firmware-hdd-95b6ae2 e85-HPK5-1.1.x86_64.r pm	MO003200KWZQQ	HPK5	HPK5	新規追加
677	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f1 57-HPK4-5.1.x86_64.rp m	MO0400KEFHN	HPK4 (E)	HPK4	
678	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f1 57-HPK4-5.1.x86_64.rp m	MO0800KEFHP	HPK4 (E)	HPK4	
679	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ,	firmware-hdd-2a5b65f1 57-HPK4-5.1.x86_64.rp m	MO1600KEFHQ	HPK4 (E)	HPK4	

	MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives					
680	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f1 57-HPK4-5.1.x86_64.rp m	MO2000KEFHR	HPK4 (E)	HPK4	
681	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f1 57-HPK4-5.1.x86_64.rp m	MT0800KEXUU	HPK4 (E)	HPK4	
682	Online NVMe SSD Flash Component for Linux (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	firmware-hdd-2a5b65f1 57-HPK4-5.1.x86_64.rp m	MT1600KEXUV	HPK4 (E)	HPK4	
683	Online NVMe SSD Flash Component for Linux (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	firmware-hdd-8e8ddc5 265-HPS1-5.1.x86_64.r pm	MT001600KWHAC	HPS1 (E)	HPS1	更新
684	Online NVMe SSD Flash Component for Linux (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	firmware-hdd-8e8ddc5 265-HPS1-5.1.x86_64.r pm	MT003200KWHAD	HPS1 (E)	HPS1	更新
685	Online NVMe SSD Flash Component for Linux (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	firmware-hdd-8e8ddc5 265-HPS1-5.1.x86_64.r pm	MT006400KWHAE	HPS1 (E)	HPS1	更新
686	Online NVMe SSD Flash Component for Linux (x64) - MZPLJ1T6HBJR-000, MZPLJ3T2HBJR-000 and MZPLJ6T4HALA-000 Drives	firmware-hdd-6628fce2 35-4H3Q-2.1.x86_64.rp m	MZPLJ1T6HBJR-00 0	4H3Q (B)	4H3Q	新規追加
687	Online NVMe SSD Flash Component for Linux (x64) - MZPLJ1T6HBJR-000, MZPLJ3T2HBJR-000 and MZPLJ6T4HALA-000 Drives	firmware-hdd-6628fce2 35-4H3Q-2.1.x86_64.rp m	MZPLJ3T2HBJR-00 0	4H3Q (B)	4H3Q	新規追加
688	Online NVMe SSD Flash Component for Linux (x64) - MZPLJ1T6HBJR-000, MZPLJ3T2HBJR-000 and MZPLJ6T4HALA-000 Drives	firmware-hdd-6628fce2 35-4H3Q-2.1.x86_64.rp m	MZPLJ6T4HALA-0 00	4H3Q (B)	4H3Q	新規追加
689	Online NVMe SSD Flash Component for Linux (x64) - MZPLJ1T6HBJR-000H3, MZPLJ3T2HBJR-000H3 and MZPLJ6T4HALA-000H3 Drives	firmware-hdd-6628fce2 35-EPK74H3Q-1.1.x86_ 64.rpm	MZPLJ1T6HBJR-00 0H3	EPK74H3Q	EPK74H3Q	新規追加
690	Online NVMe SSD Flash Component for Linux (x64) - MZPLJ1T6HBJR-000H3, MZPLJ3T2HBJR-000H3 and	firmware-hdd-6628fce2 35-EPK74H3Q-1.1.x86_ 64.rpm	MZPLJ3T2HBJR-00 0H3	EPK74H3Q	EPK74H3Q	新規追加

	MZPLJ6T4HALA-000H3 Drives					
691	Online NVMe SSD Flash Component for Linux (x64) - MZPLJ1T6HBJR-000H3, MZPLJ3T2HBJR-000H3 and MZPLJ6T4HALA-000H3 Drives	firmware-hdd-6628fce235-EPK74H3Q-1.1.x86_64.rpm	MZPLJ6T4HALA-000H3	EPK74H3Q	EPK74H3Q	新規追加
692	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-00 Drives	firmware-hdd-e320db791d-3H5Q-2.1.x86_64.rpm	MZXL5800HBHQ-000	3H5Q (B)	3H5Q	新規追加
693	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-00 Drives	firmware-hdd-e320db791d-3H5Q-2.1.x86_64.rpm	MZXL51T6HBJR-000	3H5Q (B)	3H5Q	新規追加
694	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-00 Drives	firmware-hdd-e320db791d-3H5Q-2.1.x86_64.rpm	MZXL53T2HBLS-000	3H5Q (B)	3H5Q	新規追加
695	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-00 Drives	firmware-hdd-e320db791d-3H5Q-2.1.x86_64.rpm	MZXL56T4HALA-000	3H5Q (B)	3H5Q	新規追加
696	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-00 Drives	firmware-hdd-e320db791d-3H5Q-2.1.x86_64.rpm	MZXL512THALA-000	3H5Q (B)	3H5Q	新規追加

697	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-00 Drives	firmware-hdd-e320db791d-3H5Q-2.1.x86_64.rpm	MZXL5960HBHQ-000	3H5Q (B)	3H5Q	新規追加
698	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-00 Drives	firmware-hdd-e320db791d-3H5Q-2.1.x86_64.rpm	MZXL51T9HBJR-000	3H5Q (B)	3H5Q	新規追加
699	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-00 Drives	firmware-hdd-e320db791d-3H5Q-2.1.x86_64.rpm	MZXL53T8HBLS-000	3H5Q (B)	3H5Q	新規追加
700	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-00 Drives	firmware-hdd-e320db791d-3H5Q-2.1.x86_64.rpm	MZXL57T6HALA-000	3H5Q (B)	3H5Q	新規追加
701	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000, MZXL51T6HBJR-000, MZXL53T2HBLS-000, MZXL56T4HALA-000, MZXL512THALA-000, MZXL5960HBHQ-000, MZXL51T9HBJR-000, MZXL53T8HBLS-000, MZXL57T6HALA-000 and MZXL515THALA-00 Drives	firmware-hdd-e320db791d-3H5Q-2.1.x86_64.rpm	MZXL515THALA-000	3H5Q (B)	3H5Q	新規追加
702	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3,	firmware-hdd-e320db791d-MPK73H5Q-1.1.x86_64.rpm	MZXL5800HBHQ-000H3	MPK73H5Q	MPK73H5Q	新規追加

	MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv					
703	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	firmware-hdd-e320db7 91d-MPK73H5Q-1.1.x86 _64.rpm	MZXL51T6HBJR-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
704	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	firmware-hdd-e320db7 91d-MPK73H5Q-1.1.x86 _64.rpm	MZXL53T2HBLS-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
705	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	firmware-hdd-e320db7 91d-MPK73H5Q-1.1.x86 _64.rpm	MZXL56T4HALA-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
706	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	firmware-hdd-e320db7 91d-MPK73H5Q-1.1.x86 _64.rpm	MZXL512THALA-0 00H3	MPK73H5Q	MPK73H5Q	新規追加
707	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	firmware-hdd-e320db7 91d-MPK73H5Q-1.1.x86 _64.rpm	MZXL5960HBHQ- 000H3	MPK73H5Q	MPK73H5Q	新規追加

708	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	firmware-hdd-e320db791d-MPK73H5Q-1.1.x86_64.rpm	MZXL51T9HBJR-000H3	MPK73H5Q	MPK73H5Q	新規追加
709	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	firmware-hdd-e320db791d-MPK73H5Q-1.1.x86_64.rpm	MZXL53T8HBLS-000H3	MPK73H5Q	MPK73H5Q	新規追加
710	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	firmware-hdd-e320db791d-MPK73H5Q-1.1.x86_64.rpm	MZXL57T6HALA-000H3	MPK73H5Q	MPK73H5Q	新規追加
711	Online NVMe SSD Flash Component for Linux (x64) - MZXL5800HBHQ-000H3, MZXL51T6HBJR-000H3, MZXL53T2HBLS-000H3, MZXL56T4HALA-000H3, MZXL512THALA-000H3, MZXL5960HBHQ-000H3, MZXL51T9HBJR-000H3, MZXL53T8HBLS-000H3, MZXL57T6HALA-000H3 and MZXL515THALA-00H3 Driv	firmware-hdd-e320db791d-MPK73H5Q-1.1.x86_64.rpm	MZXL515THALA-000H3	MPK73H5Q	MPK73H5Q	新規追加
712	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b14a-4ICDHPK1-1.1.x86_64.rpm	VO001000KWJSE	4ICDHPK1	4ICDHPK1	新規追加
713	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b14a-4ICDHPK1-1.1.x86_64.rpm	VO002000KWJSF	4ICDHPK1	4ICDHPK1	新規追加
714	Online NVMe SSD Flash Component for Linux (x64) -	firmware-hdd-1656c1b14a-4ICDHPK1-1.1.x86_64.rpm	VO004000KWJSH	4ICDHPK1	4ICDHPK1	新規追加

	VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	64.rpm				
715	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b 14a-4ICDHPK1-1.1.x86_ 64.rpm	VT004000KWJSU	4ICDHPK1	4ICDHPK1	新規追加
716	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b 14a-4ICDHPK1-1.1.x86_ 64.rpm	MO001600KWJSN	4ICDHPK1	4ICDHPK1	新規追加
717	Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	firmware-hdd-1656c1b 14a-4ICDHPK1-1.1.x86_ 64.rpm	MO003200KWJSQ	4ICDHPK1	4ICDHPK1	新規追加
718	Online NVMe SSD Flash Component for Linux (x64) - VO001920KWVMT, VO003840KWVMU, and VO007680KWVMV Drives	firmware-hdd-fe9c4748 47-HPK3-1.1.x86_64.rp m	VO001920KWVMT	HPK3	HPK3	新規追加
719	Online NVMe SSD Flash Component for Linux (x64) - VO001920KWVMT, VO003840KWVMU, and VO007680KWVMV Drives	firmware-hdd-fe9c4748 47-HPK3-1.1.x86_64.rp m	VO003840KWVMU	HPK3	HPK3	新規追加
720	Online NVMe SSD Flash Component for Linux (x64) - VO001920KWVMT, VO003840KWVMU, and VO007680KWVMV Drives	firmware-hdd-fe9c4748 47-HPK3-1.1.x86_64.rp m	VO007680KWVMV	HPK3	HPK3	新規追加
721	Online NVMe SSD Flash Component for Linux (x64) - VO001920KWZQR and VO003840KWZQT Drives	firmware-hdd-2af7385a 1e-HPK5-1.1.x86_64.rp m	VO001920KWZQR	HPK5	HPK5	新規追加
722	Online NVMe SSD Flash Component for Linux (x64) - VO001920KWZQR and VO003840KWZQT Drives	firmware-hdd-2af7385a 1e-HPK5-1.1.x86_64.rp m	VO003840KWZQT	HPK5	HPK5	新規追加
723	Online NVMe SSD Flash Component for Linux (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	firmware-hdd-9a826ccd 8a-HPK4-5.1.x86_64.rp m	VO0400KEFJB	HPK4 (E)	HPK4	
724	Online NVMe SSD Flash Component for Linux (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	firmware-hdd-9a826ccd 8a-HPK4-5.1.x86_64.rp m	VO1200KEFJC	HPK4 (E)	HPK4	
725	Online NVMe SSD Flash Component for Linux (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	firmware-hdd-9a826ccd 8a-HPK4-5.1.x86_64.rp m	VO2000KEFJD	HPK4 (E)	HPK4	
726	Online NVMe SSD Flash	firmware-hdd-95a2e5a	VS000480KWDUP	HPK4 (E)	HPK4	更新

	Component for Linux (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	bcb-HPK4-5.1.x86_64.rpm				
727	Online NVMe SSD Flash Component for Linux (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	firmware-hdd-95a2e5a bcb-HPK4-5.1.x86_64.rpm	VS000960KWDUQ	HPK4 (E)	HPK4	更新
728	Online NVMe SSD Flash Component for Linux (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	firmware-hdd-95a2e5a bcb-HPK4-5.1.x86_64.rpm	MS000400KWDUR	HPK4 (E)	HPK4	更新
729	Online NVMe SSD Flash Component for Linux (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	firmware-hdd-95a2e5a bcb-HPK4-5.1.x86_64.rpm	MS000800KWDUT	HPK4 (E)	HPK4	更新
730	Online NVMe SSD Flash Component for Linux (x64) - VS000480KXALB Drive	firmware-hdd-805abb7e9c-85030G00-2.1.x86_64.rpm	VS000480KXALB	85030G00 (B)	85030G00	
731	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP044498.zip	LO0400KEFJQ	HPK4 (D)	HPK4	
732	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP044498.zip	LO0800KEFJR	HPK4 (D)	HPK4	
733	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP044498.zip	LO1600KEFJT	HPK4 (D)	HPK4	
734	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP044498.zip	LO2000KEFJU	HPK4 (D)	HPK4	
735	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP044498.zip	LT0800KEXVA	HPK4 (D)	HPK4	
736	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	CP044498.zip	LT1600KEXVB	HPK4 (D)	HPK4	
737	Online NVMe SSD Flash Component for VMware ESXi - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU,	CP044498.zip	LT2000KEXVC	HPK4 (D)	HPK4	

	LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives					
738	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	CP045714.zip	MK000400KWDU K	HPK4 (F)	HPK4	更新
739	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	CP045714.zip	VK000480KWDUE	HPK4 (F)	HPK4	更新
740	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	CP045714.zip	MK000800KWDU L	HPK4 (F)	HPK4	更新
741	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	CP045714.zip	VK000960KWDUF	HPK4 (F)	HPK4	更新
742	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	CP045714.zip	MK001600KWDU N	HPK4 (F)	HPK4	更新
743	Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	CP045714.zip	VK001920KWDUH	HPK4 (F)	HPK4	更新
744	Online NVMe SSD Flash Component for VMware ESXi - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	CP047337.zip	MK000800KWWF E	HPK3 (B)	HPK3	新規追加
745	Online NVMe SSD Flash Component for VMware ESXi - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK,	CP047337.zip	MK001600KWWF F	HPK3 (B)	HPK3	新規追加

	VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives					
746	Online NVMe SSD Flash Component for VMware ESXi - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	CP047337.zip	MK003200KWWF H	HPK3 (B)	HPK3	新規追加
747	Online NVMe SSD Flash Component for VMware ESXi - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	CP047337.zip	MK006400KWWF K	HPK3 (B)	HPK3	新規追加
748	Online NVMe SSD Flash Component for VMware ESXi - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	CP047337.zip	VK000960KWWFL	HPK3 (B)	HPK3	新規追加
749	Online NVMe SSD Flash Component for VMware ESXi - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	CP047337.zip	VK001920KWWF N	HPK3 (B)	HPK3	新規追加
750	Online NVMe SSD Flash Component for VMware ESXi - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	CP047337.zip	VK003840KWWFP	HPK3 (B)	HPK3	新規追加
751	Online NVMe SSD Flash Component for VMware ESXi - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	CP047337.zip	VK007680KWWF Q	HPK3 (B)	HPK3	新規追加
752	Online NVMe SSD Flash Component for VMware ESXi	CP045709.zip	MO001600KVVN B	HPK3	HPK3	更新

	- MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives					
753	Online NVMe SSD Flash Component for VMware ESXi - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	CP045709.zip	MO003200KVVNC	HPK3	HPK3	更新
754	Online NVMe SSD Flash Component for VMware ESXi - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	CP045709.zip	MO006400KVVND	HPK3	HPK3	更新
755	Online NVMe SSD Flash Component for VMware ESXi - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	CP045709.zip	MT001600KWSTB	HPK3	HPK3	更新
756	Online NVMe SSD Flash Component for VMware ESXi - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	CP045709.zip	MT003200KWSTC	HPK3	HPK3	更新
757	Online NVMe SSD Flash Component for VMware ESXi - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	CP045709.zip	MT006400KWSTD	HPK3	HPK3	更新
758	Online NVMe SSD Flash Component for VMware ESXi - MO001600KWZQP and MO003200KWZQQ Drives	CP045989.zip	MO001600KWZQP	HPK5	HPK5	新規追加
759	Online NVMe SSD Flash Component for VMware ESXi - MO001600KWZQP and MO003200KWZQQ Drives	CP045989.zip	MO003200KWZQQ	HPK5	HPK5	新規追加
760	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	CP043753.zip	MO0400KEFHN	HPK4 (C)	HPK4	
761	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP,	CP043753.zip	MO0800KEFHP	HPK4 (C)	HPK4	

	MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives					
762	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	CP043753.zip	MO1600KEFHQ	HPK4 (C)	HPK4	
763	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	CP043753.zip	MO2000KEFHR	HPK4 (C)	HPK4	
764	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	CP043753.zip	MT0800KEXUU	HPK4 (C)	HPK4	
765	Online NVMe SSD Flash Component for VMware ESXi - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	CP043753.zip	MT1600KEXUV	HPK4 (C)	HPK4	
766	Online NVMe SSD Flash Component for VMware ESXi - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	CP045720.zip	MT001600KWHAC	HPS1 (E)	HPS1	更新
767	Online NVMe SSD Flash Component for VMware ESXi - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	CP045720.zip	MT003200KWHAD	HPS1 (E)	HPS1	更新
768	Online NVMe SSD Flash Component for VMware ESXi - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	CP045720.zip	MT006400KWHAE	HPS1 (E)	HPS1	更新
769	Online NVMe SSD Flash Component for VMware ESXi - VO001920KWVMT, VO003840KWVMU, and VO007680KWVMV Drives	CP046658.zip	VO001920KWVMT	HPK3	HPK3	新規追加
770	Online NVMe SSD Flash Component for VMware ESXi - VO001920KWVMT, VO003840KWVMU, and VO007680KWVMV Drives	CP046658.zip	VO003840KWVMU	HPK3	HPK3	新規追加
771	Online NVMe SSD Flash Component for VMware ESXi - VO001920KWVMT, VO003840KWVMU, and VO007680KWVMV Drives	CP046658.zip	VO007680KWVMV	HPK3	HPK3	新規追加

772	Online NVMe SSD Flash Component for VMware ESXi - VO001920KWZQR and VO003840KWZQT Drives	CP045993.zip	VO001920KWZQR	HPK5	HPK5	新規追加
773	Online NVMe SSD Flash Component for VMware ESXi - VO001920KWZQR and VO003840KWZQT Drives	CP045993.zip	VO003840KWZQT	HPK5	HPK5	新規追加
774	Online NVMe SSD Flash Component for VMware ESXi - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	CP044497.zip	VO0400KEFJB	HPK4 (D)	HPK4	
775	Online NVMe SSD Flash Component for VMware ESXi - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	CP044497.zip	VO1200KEFJC	HPK4 (D)	HPK4	
776	Online NVMe SSD Flash Component for VMware ESXi - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	CP044497.zip	VO2000KEFJD	HPK4 (D)	HPK4	
777	Online NVMe SSD Flash Component for VMware ESXi - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	CP045692.zip	VS000480KWDUP	HPK4 (D)	HPK4	更新
778	Online NVMe SSD Flash Component for VMware ESXi - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	CP045692.zip	VS000960KWDUQ	HPK4 (D)	HPK4	更新
779	Online NVMe SSD Flash Component for VMware ESXi - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	CP045692.zip	MS000400KWDUR	HPK4 (D)	HPK4	更新
780	Online NVMe SSD Flash Component for VMware ESXi - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	CP045692.zip	MS000800KWDUT	HPK4 (D)	HPK4	更新
781	Online NVMe SSD Flash Component for VMware ESXi - VS000480KXALB Drive	CP044993.zip	VS000480KXALB	85030G00 (C)	85030G00	
782	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp045513.exe	LO0400KEFJQ	HPK4 (C)	HPK4	更新
783	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp045513.exe	LO0800KEFJR	HPK4 (C)	HPK4	更新
784	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA,	cp045513.exe	LO1600KEFJT	HPK4 (C)	HPK4	更新

	LT1600KEXVB, and LT2000KEXVC Drives					
785	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp045513.exe	LO2000KEFJU	HPK4 (C)	HPK4	更新
786	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp045513.exe	LT0800KEXVA	HPK4 (C)	HPK4	更新
787	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp045513.exe	LT1600KEXVB	HPK4 (C)	HPK4	更新
788	Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives	cp045513.exe	LT2000KEXVC	HPK4 (C)	HPK4	更新
789	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	cp045559.exe	VK001920KWDUH	HPK4 (C)	HPK4	更新
790	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	cp045559.exe	MK001600KWDU N	HPK4 (C)	HPK4	更新
791	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	cp045559.exe	VK000960KWDUF	HPK4 (C)	HPK4	更新
792	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	cp045559.exe	MK000800KWDU L	HPK4 (C)	HPK4	更新
793	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE,	cp045559.exe	VK000480KWDUE	HPK4 (C)	HPK4	更新

	MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives					
794	Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives	cp045559.exe	MK000400KWDU K	HPK4 (C)	HPK4	更新
795	Online NVMe SSD Flash Component for Windows (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	cp047338.exe	MK000800KWWF E	HPK3 (B)	HPK3	新規追加
796	Online NVMe SSD Flash Component for Windows (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	cp047338.exe	MK001600KWWF F	HPK3 (B)	HPK3	新規追加
797	Online NVMe SSD Flash Component for Windows (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	cp047338.exe	MK003200KWWF H	HPK3 (B)	HPK3	新規追加
798	Online NVMe SSD Flash Component for Windows (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	cp047338.exe	MK006400KWWF K	HPK3 (B)	HPK3	新規追加
799	Online NVMe SSD Flash Component for Windows (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	cp047338.exe	VK000960KWWFL	HPK3 (B)	HPK3	新規追加
800	Online NVMe SSD Flash Component for Windows (x64) - MK000800KWWFE, MK001600KWWFF,	cp047338.exe	VK001920KWWF N	HPK3 (B)	HPK3	新規追加

	MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives					
801	Online NVMe SSD Flash Component for Windows (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	cp047338.exe	VK003840KWWFP	HPK3 (B)	HPK3	新規追加
802	Online NVMe SSD Flash Component for Windows (x64) - MK000800KWWFE, MK001600KWWFF, MK003200KWWFH, MK006400KWWFK, VK000960KWWFL, VK001920KWWFN, VK003840KWWFP and VK007680KWWFQ Drives	cp047338.exe	VK007680KWWF Q	HPK3 (B)	HPK3	新規追加
803	Online NVMe SSD Flash Component for Windows (x64) - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	cp045598.exe	MO001600KVVN B	HPK3	HPK3	更新
804	Online NVMe SSD Flash Component for Windows (x64) - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	cp045598.exe	MO003200KVVN C	HPK3	HPK3	更新
805	Online NVMe SSD Flash Component for Windows (x64) - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	cp045598.exe	MO006400KVVN D	HPK3	HPK3	更新
806	Online NVMe SSD Flash Component for Windows (x64) - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	cp045598.exe	MT001600KWSTB	HPK3	HPK3	更新
807	Online NVMe SSD Flash Component for Windows (x64) - MO001600KVVNB, MO003200KVVNC, MO006400KVVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	cp045598.exe	MT003200KWSTC	HPK3	HPK3	更新

808	Online NVMe SSD Flash Component for Windows (x64) - MO001600KWVNB, MO003200KWVNC, MO006400KWVND, MT001600KWSTB, MT003200KWSTC and MT006400KWSTD Drives	cp045598.exe	MT006400KWSTD	HPK3	HPK3	更新
809	Online NVMe SSD Flash Component for Windows (x64) - MO001600KWZQP and MO003200KWZQQ Drives	cp045987.exe	MO001600KWZQP	HPK5	HPK5	新規追加
810	Online NVMe SSD Flash Component for Windows (x64) - MO001600KWZQP and MO003200KWZQQ Drives	cp045987.exe	MO003200KWZQQ	HPK5	HPK5	新規追加
811	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	cp045592.exe	MO0400KEFHN	HPK4 (C)	HPK4	更新
812	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	cp045592.exe	MO0800KEFHP	HPK4 (C)	HPK4	更新
813	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	cp045592.exe	MO1600KEFHQ	HPK4 (C)	HPK4	更新
814	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	cp045592.exe	MO2000KEFHR	HPK4 (C)	HPK4	更新
815	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	cp045592.exe	MT0800KEXUU	HPK4 (C)	HPK4	更新
816	Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives	cp045592.exe	MT1600KEXUV	HPK4 (C)	HPK4	更新
817	Online NVMe SSD Flash Component for Windows	cp044275.exe	MT001600KWHA C	HPS1 (C)	HPS1	更新

	(x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives					
818	Online NVMe SSD Flash Component for Windows (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	cp044275.exe	MT003200KWHAD	HPS1 (C)	HPS1	更新
819	Online NVMe SSD Flash Component for Windows (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives	cp044275.exe	MT006400KWHAE	HPS1 (C)	HPS1	更新
820	Online NVMe SSD Flash Component for Windows (x64) - MZPLJ1T6HBJR-000, MZPLJ3T2HBJR-000 and MZPLJ6T4HALA-000 Drives	cp046695.exe	MZPLJ1T6HBJR-000	4H3Q (B)	4H3Q	新規追加
821	Online NVMe SSD Flash Component for Windows (x64) - MZPLJ1T6HBJR-000, MZPLJ3T2HBJR-000 and MZPLJ6T4HALA-000 Drives	cp046695.exe	MZPLJ3T2HBJR-000	4H3Q (B)	4H3Q	新規追加
822	Online NVMe SSD Flash Component for Windows (x64) - MZPLJ1T6HBJR-000, MZPLJ3T2HBJR-000 and MZPLJ6T4HALA-000 Drives	cp046695.exe	MZPLJ6T4HALA-000	4H3Q (B)	4H3Q	新規追加
823	Online NVMe SSD Flash Component for Windows (x64) - MZPLJ1T6HBJR-000H3, MZPLJ3T2HBJR-000H3 and MZPLJ6T4HALA-000H3 Drives	cp046472.exe	MZPLJ1T6HBJR-000H3	EPK74H3Q	EPK74H3Q	新規追加
824	Online NVMe SSD Flash Component for Windows (x64) - MZPLJ1T6HBJR-000H3, MZPLJ3T2HBJR-000H3 and MZPLJ6T4HALA-000H3 Drives	cp046472.exe	MZPLJ3T2HBJR-000H3	EPK74H3Q	EPK74H3Q	新規追加
825	Online NVMe SSD Flash Component for Windows (x64) - MZPLJ1T6HBJR-000H3, MZPLJ3T2HBJR-000H3 and MZPLJ6T4HALA-000H3 Drives	cp046472.exe	MZPLJ6T4HALA-000H3	EPK74H3Q	EPK74H3Q	新規追加
826	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp046729.exe	VO001000KWJSE	4ICDHPK1	4ICDHPK1	新規追加
827	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp046729.exe	VO002000KWJSF	4ICDHPK1	4ICDHPK1	新規追加
828	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and	cp046729.exe	VO004000KWJSH	4ICDHPK1	4ICDHPK1	新規追加

	MO003200KWJSQ Drives					
829	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp046729.exe	VT004000KWJSU	4ICDHPK1	4ICDHPK1	新規追加
830	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp046729.exe	MO001600KWJSN	4ICDHPK1	4ICDHPK1	新規追加
831	Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives	cp046729.exe	MO003200KWJSQ	4ICDHPK1	4ICDHPK1	新規追加
832	Online NVMe SSD Flash Component for Windows (x64) - VO001920KWVMT, VO003840KWVMU, and VO007680KWVMV Drives	cp046660.exe	VO001920KWVMT	HPK3	HPK3	新規追加
833	Online NVMe SSD Flash Component for Windows (x64) - VO001920KWVMT, VO003840KWVMU, and VO007680KWVMV Drives	cp046660.exe	VO003840KWVMU	HPK3	HPK3	新規追加
834	Online NVMe SSD Flash Component for Windows (x64) - VO001920KWVMT, VO003840KWVMU, and VO007680KWVMV Drives	cp046660.exe	VO007680KWVMV	HPK3	HPK3	新規追加
835	Online NVMe SSD Flash Component for Windows (x64) - VO001920KWZQR and VO003840KWZQT Drives	cp045992.exe	VO001920KWZQR	HPK5	HPK5	新規追加
836	Online NVMe SSD Flash Component for Windows (x64) - VO001920KWZQR and VO003840KWZQT Drives	cp045992.exe	VO003840KWZQT	HPK5	HPK5	新規追加
837	Online NVMe SSD Flash Component for Windows (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	cp045579.exe	VO0400KEFJB	HPK4 (C)	HPK4	更新
838	Online NVMe SSD Flash Component for Windows (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	cp045579.exe	VO1200KEFJC	HPK4 (C)	HPK4	更新
839	Online NVMe SSD Flash Component for Windows (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives	cp045579.exe	VO2000KEFJD	HPK4 (C)	HPK4	更新
840	Online NVMe SSD Flash Component for Windows (x64) - VS000480KWDUP,	cp045582.exe	VS000480KWDUP	HPK4 (C)	HPK4	更新

	VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives					
841	Online NVMe SSD Flash Component for Windows (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	cp045582.exe	VS000960KWDUQ	HPK4 (C)	HPK4	更新
842	Online NVMe SSD Flash Component for Windows (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	cp045582.exe	MS000400KWDU R	HPK4 (C)	HPK4	更新
843	Online NVMe SSD Flash Component for Windows (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives	cp045582.exe	MS000800KWDU T	HPK4 (C)	HPK4	更新
844	Online NVMe SSD Flash Component for Windows (x64) - VS000480KXALB drive	cp045602.exe	VS000480KXALB	85030G00 (C)	85030G00	更新

6.2.14 Firmware - Power Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
845	Online Flash for Windows x64 - Innovation Engine Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	cp043599.exe	Innovation Engine (IE) Firmware	0.2.2.0	0.2.2.0	
846	Online ROM Flash for Linux - Advanced Power Capping Microcontroller Firmware for servers using Intel Xeon Scalable 3100/4100/5100/6100/8100 series Processors	firmware-powerpic-1.0.7-1.1.x86_64.rpm	Power Management Controller Firmware	1.0.7	1.0.7	新規追加
847	Online ROM Flash for Windows x64 - Advanced Power Capping Microcontroller Firmware for servers using Intel Xeon Scalable 3100/4100/5100/6100/8100 series Processors	cp041512.exe	Power Management Controller Firmware	1.0.7	1.0.7	新規追加
848	ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware for HPE Gen10 Servers	OEM.PICGen10_1.0.7s.fwpkg	Power Management Controller Firmware	1.0.7	1.0.7	新規追加

6.2.15 Firmware - SAS Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
849	Online HDD/SDD Flash Component for VMware ESXi - MB6000JVYZD and MB4000JVYZC Drives	CP045783.zip	MB6000JVYZD	HPD4 (F)	HPD4	更新

850	Online HDD/SDD Flash Component for VMware ESXi - MB6000JVYZD and MB4000JVYZC Drives	CP045783.zip	MB4000JVYZC	HPD4 (F)	HPD4	更新
851	Online HDD/SSD Flash Component for Linux (x64) - EG000300JWBHR Drive	firmware-hdd-2e4c61fc63-HPD4-5.1.x86_64.rpm	EG000300JWBHR	HPD4 (E)	HPD4	更新
852	Online HDD/SSD Flash Component for Linux (x64) - EG000300JWFVB Drive	firmware-hdd-c5cd837c29-HPD2-6.1.x86_64.rpm	EG000300JWFVB	HPD2 (F)	HPD2	更新
853	Online HDD/SSD Flash Component for Linux (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	firmware-hdd-24fe569b72-HPD2-4.1.x86_64.rpm	EG000300JWSJP	HPD2 (D)	HPD2	更新
854	Online HDD/SSD Flash Component for Linux (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	firmware-hdd-24fe569b72-HPD2-4.1.x86_64.rpm	EG000600JWJNH	HPD2 (D)	HPD2	更新
855	Online HDD/SSD Flash Component for Linux (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	firmware-hdd-24fe569b72-HPD2-4.1.x86_64.rpm	EG001200JWJNK	HPD2 (D)	HPD2	更新
856	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWFUV and EG001200JWFVA Drives	firmware-hdd-f0c91d2fe3-HPD3-6.1.x86_64.rpm	EG000600JWFUV	HPD3 (F)	HPD3	更新
857	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWFUV and EG001200JWFVA Drives	firmware-hdd-f0c91d2fe3-HPD3-6.1.x86_64.rpm	EG001200JWFVA	HPD3 (F)	HPD3	更新
858	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP and EG001200JWJNQ Drives	firmware-hdd-bdfb8e99d9-HPD3-3.1.x86_64.rpm	EG000600JWJNP	HPD3 (C)	HPD3	更新
859	Online HDD/SSD Flash Component for Linux (x64) - EG000600JWJNP and EG001200JWJNQ Drives	firmware-hdd-bdfb8e99d9-HPD3-3.1.x86_64.rpm	EG001200JWJNQ	HPD3 (C)	HPD3	更新
860	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWFVC Drive	firmware-hdd-693b9a2853-HPD3-6.1.x86_64.rpm	EG001800JWFVC	HPD3 (F)	HPD3	更新
861	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNL and EG002400JWJNN Drives	firmware-hdd-852266afdf-HPD2-5.1.x86_64.rpm	EG001800JWJNL	HPD2 (E)	HPD2	更新
862	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNL and EG002400JWJNN Drives	firmware-hdd-852266afdf-HPD2-5.1.x86_64.rpm	EG002400JWJNN	HPD2 (E)	HPD2	更新
863	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR and EG002400JWJNT Drives	firmware-hdd-b1c9eaf74c-HPD5-3.1.x86_64.rpm	EG001800JWJNR	HPD5 (C)	HPD5	更新
864	Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNR and EG002400JWJNT Drives	firmware-hdd-b1c9eaf74c-HPD5-3.1.x86_64.rpm	EG002400JWJNT	HPD5 (C)	HPD5	更新
865	Online HDD/SSD Flash Component for Linux (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPL and EG0900FCSPN Drives	firmware-hdd-7c1a1734f9-HPD2-7.1.x86_64.rpm	EG0300FCSPH	HPD2 (G)	HPD2	更新

866	Online HDD/SSD Flash Component for Linux (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPK and EG0900FCSPN Drives	firmware-hdd-7c1a1734f9-HPD2-7.1.x86_64.rpm	EG0450FCSPK	HPD2 (G)	HPD2	更新
867	Online HDD/SSD Flash Component for Linux (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPK and EG0900FCSPN Drives	firmware-hdd-7c1a1734f9-HPD2-7.1.x86_64.rpm	EG0600FCSPK	HPD2 (G)	HPD2	更新
868	Online HDD/SSD Flash Component for Linux (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPK and EG0900FCSPN Drives	firmware-hdd-7c1a1734f9-HPD2-7.1.x86_64.rpm	EG0900FCSPN	HPD2 (G)	HPD2	更新
869	Online HDD/SSD Flash Component for Linux (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB and EG1200JEHMC Drives	firmware-hdd-31f91b8622-HPD5-8.1.x86_64.rpm	EG0300JEHLV	HPD5 (H)	HPD5	更新
870	Online HDD/SSD Flash Component for Linux (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB and EG1200JEHMC Drives	firmware-hdd-31f91b8622-HPD5-8.1.x86_64.rpm	EG0600JEHMA	HPD5 (H)	HPD5	更新
871	Online HDD/SSD Flash Component for Linux (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB and EG1200JEHMC Drives	firmware-hdd-31f91b8622-HPD5-8.1.x86_64.rpm	EG0900JEHMB	HPD5 (H)	HPD5	更新
872	Online HDD/SSD Flash Component for Linux (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB and EG1200JEHMC Drives	firmware-hdd-31f91b8622-HPD5-8.1.x86_64.rpm	EG1200JEHMC	HPD5 (H)	HPD5	更新
873	Online HDD/SSD Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	firmware-hdd-ac3fda26eb-HPD6-8.1.x86_64.rpm	EG0600JEMCV	HPD6 (H)	HPD6	更新
874	Online HDD/SSD Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	firmware-hdd-ac3fda26eb-HPD6-8.1.x86_64.rpm	EG1200JEMDA	HPD6 (H)	HPD6	更新
875	Online HDD/SSD Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	firmware-hdd-ac3fda26eb-HPD6-8.1.x86_64.rpm	EG0300JFCKA	HPD6 (H)	HPD6	更新
876	Online HDD/SSD Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	firmware-hdd-ac3fda26eb-HPD6-8.1.x86_64.rpm	EG0900JFCKB	HPD6 (H)	HPD6	更新
877	Online HDD/SSD Flash Component for Linux (x64) - EG0600JETKA, EG0900JETKB and EG1200JETKC Drives	firmware-hdd-7505dfb5ae-HPD7-5.1.x86_64.rpm	EG0600JETKA	HPD7 (E)	HPD7	更新
878	Online HDD/SSD Flash Component for Linux (x64) - EG0600JETKA, EG0900JETKB and EG1200JETKC Drives	firmware-hdd-7505dfb5ae-HPD7-5.1.x86_64.rpm	EG0900JETKB	HPD7 (E)	HPD7	更新
879	Online HDD/SSD Flash Component for Linux (x64) - EG0600JETKA, EG0900JETKB	firmware-hdd-7505dfb5ae-HPD7-5.1.x86_64.rpm	EG1200JETKC	HPD7 (E)	HPD7	更新

	and EG1200JETKC Drives					
880	Online HDD/SSD Flash Component for Linux (x64) - EG1800JEHMD Drive	firmware-hdd-8a2c06af48-HPD6-8.1.x86_64.rpm	EG1800JEHMD	HPD6 (H)	HPD6	更新
881	Online HDD/SSD Flash Component for Linux (x64) - EG1800JEMDB Drive	firmware-hdd-0a38b25661-HPD5-7.1.x86_64.rpm	EG1800JEMDB	HPD5 (G)	HPD5	更新
882	Online HDD/SSD Flash Component for Linux (x64) - EG1800JFHMH Drive	firmware-hdd-7fc5497116-HPD7-6.1.x86_64.rpm	EG1800JFHMH	HPD7 (F)	HPD7	更新
883	Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD6-2.1.x86_64.rpm	EH000900JWCPN	HPD6 (B)	HPD6	更新
884	Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD6-2.1.x86_64.rpm	EH000600JWCPL	HPD6 (B)	HPD6	更新
885	Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	firmware-hdd-3d97759111-HPD6-2.1.x86_64.rpm	EH000300JWCPK	HPD6 (B)	HPD6	更新
886	Online HDD/SSD Flash Component for Linux (x64) - EH000600JWCPF and EH000900JWCPH Drives	firmware-hdd-a05f29cef3-HPD8-2.1.x86_64.rpm	EH000900JWCPH	HPD8 (B)	HPD8	更新
887	Online HDD/SSD Flash Component for Linux (x64) - EH000600JWCPF and EH000900JWCPH Drives	firmware-hdd-a05f29cef3-HPD8-2.1.x86_64.rpm	EH000600JWCPF	HPD8 (B)	HPD8	更新
888	Online HDD/SSD Flash Component for Linux (x64) - EH000900JWHPK and EH000600JWHPH Drives	firmware-hdd-c7df7ceedb-HPD4-3.1.x86_64.rpm	EH000900JWHPK	HPD4 (C)	HPD4	更新
889	Online HDD/SSD Flash Component for Linux (x64) - EH000900JWHPK and EH000600JWHPH Drives	firmware-hdd-c7df7ceedb-HPD4-3.1.x86_64.rpm	EH000600JWHPH	HPD4 (C)	HPD4	更新
890	Online HDD/SSD Flash Component for Linux (x64) - EH000900JWHPH, EH000600JWHPN and EH000300JWHPL Drives	firmware-hdd-8d68452816-HPD4-3.1.x86_64.rpm	EH000900JWHPH	HPD4 (C)	HPD4	更新
891	Online HDD/SSD Flash Component for Linux (x64) - EH000900JWHPH, EH000600JWHPN and EH000300JWHPL Drives	firmware-hdd-8d68452816-HPD4-3.1.x86_64.rpm	EH000600JWHPN	HPD4 (C)	HPD4	更新
892	Online HDD/SSD Flash Component for Linux (x64) - EH000900JWHPH, EH000600JWHPN and EH000300JWHPL Drives	firmware-hdd-8d68452816-HPD4-3.1.x86_64.rpm	EH000300JWHPL	HPD4 (C)	HPD4	更新
893	Online HDD/SSD Flash Component for Linux (x64) - EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives	firmware-hdd-1cbab97ff0-HPD5-7.1.x86_64.rpm	EH0300JDXBA	HPD5 (G)	HPD5	更新
894	Online HDD/SSD Flash Component for Linux (x64) - EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives	firmware-hdd-1cbab97ff0-HPD5-7.1.x86_64.rpm	EH0450JDXBB	HPD5 (G)	HPD5	更新
895	Online HDD/SSD Flash Component for Linux (x64) -	firmware-hdd-1cbab97ff0-HPD5-7.1.x86_64.rpm	EH0600JDXBC	HPD5 (G)	HPD5	更新

	EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives	m				
896	Online HDD/SSD Flash Component for Linux (x64) - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives	firmware-hdd-b9340d29be-HPD6-8.1.x86_64.rpm	EH0300JDYTH	HPD6 (H)	HPD6	更新
897	Online HDD/SSD Flash Component for Linux (x64) - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives	firmware-hdd-b9340d29be-HPD6-8.1.x86_64.rpm	EH0450JDYTK	HPD6 (H)	HPD6	更新
898	Online HDD/SSD Flash Component for Linux (x64) - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives	firmware-hdd-b9340d29be-HPD6-8.1.x86_64.rpm	EH0600JDYTL	HPD6 (H)	HPD6	更新
899	Online HDD/SSD Flash Component for Linux (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	firmware-hdd-8c4a212ff9-HPD4-8.1.x86_64.rpm	EH0300JEDHC	HPD4 (H)	HPD4	更新
900	Online HDD/SSD Flash Component for Linux (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	firmware-hdd-8c4a212ff9-HPD4-8.1.x86_64.rpm	EH0450JEDHD	HPD4 (H)	HPD4	更新
901	Online HDD/SSD Flash Component for Linux (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	firmware-hdd-8c4a212ff9-HPD4-8.1.x86_64.rpm	EH0600JEDHE	HPD4 (H)	HPD4	更新
902	Online HDD/SSD Flash Component for Linux (x64) - EH0600JDYTN Drive	firmware-hdd-f3faa195ff-HPD7-7.1.x86_64.rpm	EH0600JDYTN	HPD7 (G)	HPD7	更新
903	Online HDD/SSD Flash Component for Linux (x64) - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	firmware-hdd-481c8ea9a7-HPD7-3.1.x86_64.rpm	EK0800JVYPN	HPD7 (C)	HPD7	更新
904	Online HDD/SSD Flash Component for Linux (x64) - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	firmware-hdd-481c8ea9a7-HPD7-3.1.x86_64.rpm	EO1600JVYPP	HPD7 (C)	HPD7	更新
905	Online HDD/SSD Flash Component for Linux (x64) - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	firmware-hdd-481c8ea9a7-HPD7-3.1.x86_64.rpm	MK0800JVYPQ	HPD7 (C)	HPD7	更新
906	Online HDD/SSD Flash Component for Linux (x64) - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	firmware-hdd-481c8ea9a7-HPD7-3.1.x86_64.rpm	MO1600JVYPR	HPD7 (C)	HPD7	更新
907	Online HDD/SSD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-5.1.x86_64.rpm	EO000400JWDKP	HPD2 (E)	HPD2	更新
908	Online HDD/SSD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and	firmware-hdd-5dcf26fa42-HPD2-5.1.x86_64.rpm	EO000800JWDKQ	HPD2 (E)	HPD2	更新

	MO003200JWDLB Drives					
909	Online HDD/SSD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-5.1.x86_64.rpm	EO001600JWDKR	HPD2 (E)	HPD2	更新
910	Online HDD/SSD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-5.1.x86_64.rpm	MO000400JWDKU	HPD2 (E)	HPD2	更新
911	Online HDD/SSD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-5.1.x86_64.rpm	MO000800JWDKV	HPD2 (E)	HPD2	更新
912	Online HDD/SSD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-5.1.x86_64.rpm	MO001600JWDLA	HPD2 (E)	HPD2	更新
913	Online HDD/SSD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	firmware-hdd-5dcf26fa42-HPD2-5.1.x86_64.rpm	MO003200JWDLB	HPD2 (E)	HPD2	更新
914	Online HDD/SSD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives	firmware-hdd-d7af557f47-HPD3-3.1.x86_64.rpm	MB002000JWFVN	HPD3 (C)	HPD3	更新
915	Online HDD/SSD Flash Component for Linux (x64) - MB002000JWFVN and MB004000JWFVP Drives	firmware-hdd-d7af557f47-HPD3-3.1.x86_64.rpm	MB004000JWFVP	HPD3 (C)	HPD3	更新
916	Online HDD/SSD Flash Component for Linux (x64) - MB004000JWFVK and MB006000JWFVL Drives	firmware-hdd-f6d00bd17e-HPD3-3.1.x86_64.rpm	MB004000JWFVK	HPD3 (C)	HPD3	更新
917	Online HDD/SSD Flash Component for Linux (x64) - MB004000JWFVK and MB006000JWFVL Drives	firmware-hdd-f6d00bd17e-HPD3-3.1.x86_64.rpm	MB006000JWFVL	HPD3 (C)	HPD3	更新
918	Online HDD/SSD Flash Component for Linux (x64) - MB004000JWKGU Drive	firmware-hdd-2c27a7a9a4-HPD1-4.1.x86_64.rpm	MB004000JWKGU	HPD1 (D)	HPD1	更新
919	Online HDD/SSD Flash	firmware-hdd-adb3ab8	MB004000JWWQ	HPD4 (B)	HPD4	更新

	Component for Linux (x64) - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives	147-HPD4-2.1.x86_64.rpm	B			
920	Online HDD/SSD Flash Component for Linux (x64) - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives	firmware-hdd-adb3ab8147-HPD4-2.1.x86_64.rpm	MB002000JWWQA	HPD4 (B)	HPD4	更新
921	Online HDD/SSD Flash Component for Linux (x64) - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives	firmware-hdd-adb3ab8147-HPD4-2.1.x86_64.rpm	MB001000JWWPV	HPD4 (B)	HPD4	更新
922	Online HDD/SSD Flash Component for Linux (x64) - MB006000JWKGN Drive	firmware-hdd-a886842a99-HPD1-4.1.x86_64.rpm	MB006000JWKGN	HPD1 (D)	HPD1	更新
923	Online HDD/SSD Flash Component for Linux (x64) - MB008000JWJRQ and MB006000JWJRP Drives	firmware-hdd-faf39e0ff7-HPD8-1.1.x86_64.rpm	MB008000JWJRQ	HPD8	HPD8	更新
924	Online HDD/SSD Flash Component for Linux (x64) - MB008000JWJRQ and MB006000JWJRP Drives	firmware-hdd-faf39e0ff7-HPD8-1.1.x86_64.rpm	MB006000JWJRP	HPD8	HPD8	更新
925	Online HDD/SSD Flash Component for Linux (x64) - MB008000JWRTD Drive	firmware-hdd-8b26d1ef02-HPD1-4.1.x86_64.rpm	MB008000JWRTD	HPD1 (D)	HPD1	更新
926	Online HDD/SSD Flash Component for Linux (x64) - MB008000JWWQP and MB006000JWWQN Drives	firmware-hdd-ae6b41e855-HPD2-3.1.x86_64.rpm	MB008000JWWQP	HPD2 (C)	HPD2	更新
927	Online HDD/SSD Flash Component for Linux (x64) - MB008000JWWQP and MB006000JWWQN Drives	firmware-hdd-ae6b41e855-HPD2-3.1.x86_64.rpm	MB006000JWWQN	HPD2 (C)	HPD2	更新
928	Online HDD/SSD Flash Component for Linux (x64) - MB010000JWAYK and MB008000JWAYH Drives	firmware-hdd-6ec35faf90-HPD5-6.1.x86_64.rpm	MB010000JWAYK	HPD5 (F)	HPD5	更新
929	Online HDD/SSD Flash Component for Linux (x64) - MB010000JWAYK and MB008000JWAYH Drives	firmware-hdd-6ec35faf90-HPD5-6.1.x86_64.rpm	MB008000JWAYH	HPD5 (F)	HPD5	更新
930	Online HDD/SSD Flash Component for Linux (x64) - MB012000JWDFFD Drive	firmware-hdd-aaf1014ede-HPD2-6.1.x86_64.rpm	MB012000JWDFFD	HPD2 (F)	HPD2	更新
931	Online HDD/SSD Flash Component for Linux (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	firmware-hdd-10385ef3e6-HPD2-5.1.x86_64.rpm	MB014000JWRTH	HPD2 (E)	HPD2	更新
932	Online HDD/SSD Flash Component for Linux (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	firmware-hdd-10385ef3e6-HPD2-5.1.x86_64.rpm	MB012000JWRTF	HPD2 (E)	HPD2	更新
933	Online HDD/SSD Flash Component for Linux (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	firmware-hdd-10385ef3e6-HPD2-5.1.x86_64.rpm	MB010000JWRTE	HPD2 (E)	HPD2	更新
934	Online HDD/SSD Flash Component for Linux (x64) - MB014000JUDB Drive	firmware-hdd-cfd7436fcc-HPD2-4.1.x86_64.rpm	MB014000JUDB	HPD2 (D)	HPD2	更新
935	Online HDD/SSD Flash	firmware-hdd-b85516c	MB1000JVYZL	HPD3 (E)	HPD3	更新

	Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	7d2-HPD3-5.1.x86_64.rpm				
936	Online HDD/SSD Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD3-5.1.x86_64.rpm	MB2000JVYZN	HPD3 (E)	HPD3	更新
937	Online HDD/SSD Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD3-5.1.x86_64.rpm	MB3000JVYZP	HPD3 (E)	HPD3	更新
938	Online HDD/SSD Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	firmware-hdd-b85516c7d2-HPD3-5.1.x86_64.rpm	MB4000JVYZQ	HPD3 (E)	HPD3	更新
939	Online HDD/SSD Flash Component for Linux (x64) - MB2000JFDSL and MB4000JFDSN Drives	firmware-hdd-46fc43ab26-HPD4-7.1.x86_64.rpm	MB2000JFDSL	HPD4 (G)	HPD4	更新
940	Online HDD/SSD Flash Component for Linux (x64) - MB2000JFDSL and MB4000JFDSN Drives	firmware-hdd-46fc43ab26-HPD4-7.1.x86_64.rpm	MB4000JFDSN	HPD4 (G)	HPD4	更新
941	Online HDD/SSD Flash Component for Linux (x64) - MB2000JFEML and MB4000JFEMN Drives	firmware-hdd-624b75c7e2-HPD6-7.1.x86_64.rpm	MB2000JFEML	HPD6 (G)	HPD6	更新
942	Online HDD/SSD Flash Component for Linux (x64) - MB2000JFEML and MB4000JFEMN Drives	firmware-hdd-624b75c7e2-HPD6-7.1.x86_64.rpm	MB4000JFEMN	HPD6 (G)	HPD6	更新
943	Online HDD/SSD Flash Component for Linux (x64) - MB2000JFEPA and MB4000JFEPB Drives	firmware-hdd-326de7c0f2-HPD5-7.1.x86_64.rpm	MB2000JFEPA	HPD5 (G)	HPD5	更新
944	Online HDD/SSD Flash Component for Linux (x64) - MB2000JFEPA and MB4000JFEPB Drives	firmware-hdd-326de7c0f2-HPD5-7.1.x86_64.rpm	MB4000JFEPB	HPD5 (G)	HPD5	更新
945	Online HDD/SSD Flash Component for Linux (x64) - MB4000JEFNC and MB6000JEFND Drives	firmware-hdd-af802bb412-HPD9-7.1.x86_64.rpm	MB4000JEFNC	HPD9 (G)	HPD9	更新
946	Online HDD/SSD Flash Component for Linux (x64) - MB4000JEFNC and MB6000JEFND Drives	firmware-hdd-af802bb412-HPD9-7.1.x86_64.rpm	MB6000JEFND	HPD9 (G)	HPD9	更新
947	Online HDD/SSD Flash Component for Linux (x64) - MB4000JEQNL and MB6000JEQNN Drives	firmware-hdd-2cfaac41db-HPDB-7.1.x86_64.rpm	MB4000JEQNL	HPDB (G)	HPDB	更新
948	Online HDD/SSD Flash Component for Linux (x64) - MB4000JEQNL and MB6000JEQNN Drives	firmware-hdd-2cfaac41db-HPDB-7.1.x86_64.rpm	MB6000JEQNN	HPDB (G)	HPDB	更新
949	Online HDD/SSD Flash Component for Linux (x64) - MB4000JEXYA and MB6000JEXYB Drives	firmware-hdd-0f923833e9-HPD9-5.1.x86_64.rpm	MB4000JEXYA	HPD9 (E)	HPD9	更新
950	Online HDD/SSD Flash Component for Linux (x64) - MB4000JEXYA and	firmware-hdd-0f923833e9-HPD9-5.1.x86_64.rpm	MB6000JEXYB	HPD9 (E)	HPD9	更新

	MB6000JEXYB Drives					
951	Online HDD/SSD Flash Component for Linux (x64) - MB6000JEQUV and MB8000JEQVA Drives	firmware-hdd-df22f7effd-HPDB-7.1.x86_64.rpm	MB6000JEQUV	HPDB (G)	HPDB	更新
952	Online HDD/SSD Flash Component for Linux (x64) - MB6000JEQUV and MB8000JEQVA Drives	firmware-hdd-df22f7effd-HPDB-7.1.x86_64.rpm	MB8000JEQVA	HPDB (G)	HPDB	更新
953	Online HDD/SSD Flash Component for Linux (x64) - MB6000JVYYV Drive	firmware-hdd-0595c2a887-HPD2-7.1.x86_64.rpm	MB6000JVYYV	HPD2 (G)	HPD2	更新
954	Online HDD/SSD Flash Component for Linux (x64) - MB6000JVYZD and MB4000JVYZC Drives	firmware-hdd-e800e8d3b9-HPD4-5.1.x86_64.rpm	MB6000JVYZD	HPD4 (E)	HPD4	更新
955	Online HDD/SSD Flash Component for Linux (x64) - MB6000JVYZD and MB4000JVYZC Drives	firmware-hdd-e800e8d3b9-HPD4-5.1.x86_64.rpm	MB4000JVYZC	HPD4 (E)	HPD4	更新
956	Online HDD/SSD Flash Component for Linux (x64) - MB8000JFECQ Drive	firmware-hdd-252770cdda-HPD7-6.1.x86_64.rpm	MB8000JFECQ	HPD7 (F)	HPD7	更新
957	Online HDD/SSD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives	firmware-hdd-b04257b77b-HPD8-6.1.x86_64.rpm	MM1000JEFRB	HPD8 (F)	HPD8	更新
958	Online HDD/SSD Flash Component for Linux (x64) - MM1000JEFRB and MM2000JEFRC Drives	firmware-hdd-b04257b77b-HPD8-6.1.x86_64.rpm	MM2000JEFRC	HPD8 (F)	HPD8	更新
959	Online HDD/SSD Flash Component for Linux (x64) - MM1000JFJTH Drive	firmware-hdd-fa46c607d6-HPD3-6.1.x86_64.rpm	MM1000JFJTH	HPD3 (F)	HPD3	更新
960	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVW Drives	firmware-hdd-b8a60f9a-HPD5-4.1.x86_64.rpm	MO000400JWFVN	HPD5 (D)	HPD5	更新
961	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVW Drives	firmware-hdd-b8a60f9a-HPD5-4.1.x86_64.rpm	MO000800JWFVP	HPD5 (D)	HPD5	更新
962	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVW Drives	firmware-hdd-b8a60f9a-HPD5-4.1.x86_64.rpm	MO001600JWFVQ	HPD5 (D)	HPD5	更新
963	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ,	firmware-hdd-b8a60f9a-HPD5-4.1.x86_64.rpm	MO003200JWFVR	HPD5 (D)	HPD5	更新

	MO003200JWFWR, MO000960JWFWT, MO001920JFWFU and MO003840JFWV Drives					
964	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JFWQ, MO003200JWFWR, MO000960JWFWT, MO001920JFWFU and MO003840JFWV Drives	firmware-hdd-b8a60f9a-HPD5-4.1.x86_64.rpm	MO000960JFWT	HPD5 (D)	HPD5	更新
965	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JFWQ, MO003200JWFWR, MO000960JWFWT, MO001920JFWFU and MO003840JFWV Drives	firmware-hdd-b8a60f9a-HPD5-4.1.x86_64.rpm	MO001920JFWU	HPD5 (D)	HPD5	更新
966	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JFWQ, MO003200JWFWR, MO000960JWFWT, MO001920JFWFU and MO003840JFWV Drives	firmware-hdd-b8a60f9a-HPD5-4.1.x86_64.rpm	MO003840JFWV	HPD5 (D)	HPD5	更新
967	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD3-2.1.x86_64.rpm	MO000400JWUFT	HPD3 (B)	HPD3	更新
968	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD3-2.1.x86_64.rpm	MO000800JWUFU	HPD3 (B)	HPD3	更新
969	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef93133161-HPD3-2.1.x86_64.rpm	MO001600JWUFV	HPD3 (B)	HPD3	更新
970	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV,	firmware-hdd-ef93133161-HPD3-2.1.x86_64.rpm	MO003200JWUGA	HPD3 (B)	HPD3	更新

	MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives					
971	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef931331 61-HPD3-2.1.x86_64.rp m	MO006400JWUG B	HPD3 (B)	HPD3	更新
972	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef931331 61-HPD3-2.1.x86_64.rp m	EO000400JWUGC	HPD3 (B)	HPD3	更新
973	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef931331 61-HPD3-2.1.x86_64.rp m	EO000800JWUGD	HPD3 (B)	HPD3	更新
974	Online HDD/SSD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	firmware-hdd-ef931331 61-HPD3-2.1.x86_64.rp m	EO001600JWUGE	HPD3 (B)	HPD3	更新
975	Online HDD/SSD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPP Drives	firmware-hdd-71af849f 3b-HPD3-7.1.x86_64.rp m	EO0800JEFPP	HPD3 (G)	HPD3	更新
976	Online HDD/SSD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPP Drives	firmware-hdd-71af849f 3b-HPD3-7.1.x86_64.rp m	EO0400JEFPE	HPD3 (G)	HPD3	更新
977	Online HDD/SSD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB,	firmware-hdd-71af849f 3b-HPD3-7.1.x86_64.rp m	EO0200JEFPD	HPD3 (G)	HPD3	更新

	MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives					
978	Online HDD/SSD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-7.1.x86_64.rpm	MO1600JEFPC	HPD3 (G)	HPD3	更新
979	Online HDD/SSD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-7.1.x86_64.rpm	MO0800JEFPB	HPD3 (G)	HPD3	更新
980	Online HDD/SSD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-7.1.x86_64.rpm	MO0400JEFPA	HPD3 (G)	HPD3	更新
981	Online HDD/SSD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives	firmware-hdd-71af849f3b-HPD3-7.1.x86_64.rpm	MO0200JEFNV	HPD3 (G)	HPD3	更新
982	Online HDD/SSD Flash Component for Linux (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	firmware-hdd-edf6dcd906-HPD9-3.1.x86_64.rpm	MO0400JFFCF	HPD9 (C)	HPD9	更新
983	Online HDD/SSD Flash Component for Linux (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	firmware-hdd-edf6dcd906-HPD9-3.1.x86_64.rpm	MO0800JFFCH	HPD9 (C)	HPD9	更新
984	Online HDD/SSD Flash Component for Linux (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	firmware-hdd-edf6dcd906-HPD9-3.1.x86_64.rpm	MO1600JFFCK	HPD9 (C)	HPD9	更新
985	Online HDD/SSD Flash Component for Linux (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	firmware-hdd-edf6dcd906-HPD9-3.1.x86_64.rpm	MO3200JFFCL	HPD9 (C)	HPD9	更新
986	Online HDD/SSD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	firmware-hdd-1e51a57347-HPD8-4.1.x86_64.rpm	VK000960JWSSQ	HPD8 (D)	HPD8	更新

987	Online HDD/SSD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	firmware-hdd-1e51a57347-HPD8-4.1.x86_64.rpm	VK001920JWSSR	HPD8 (D)	HPD8	更新
988	Online HDD/SSD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	firmware-hdd-1e51a57347-HPD8-4.1.x86_64.rpm	VK003840JWSST	HPD8 (D)	HPD8	更新
989	Online HDD/SSD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	firmware-hdd-1e51a57347-HPD8-4.1.x86_64.rpm	VK007680JWSSU	HPD8 (D)	HPD8	更新
990	Online HDD/SSD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	firmware-hdd-1e51a57347-HPD8-4.1.x86_64.rpm	VO015300JWSSV	HPD8 (D)	HPD8	更新
991	Online HDD/SSD Flash Component for Linux (x64) - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	firmware-hdd-2eb81cdd7-HPD8-3.1.x86_64.rpm	VO000480JWDAR	HPD8 (C)	HPD8	更新
992	Online HDD/SSD Flash Component for Linux (x64) - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	firmware-hdd-2eb81cdd7-HPD8-3.1.x86_64.rpm	VO000960JWDAT	HPD8 (C)	HPD8	更新
993	Online HDD/SSD Flash Component for Linux (x64) - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	firmware-hdd-2eb81cdd7-HPD8-3.1.x86_64.rpm	VO001920JWDAU	HPD8 (C)	HPD8	更新
994	Online HDD/SSD Flash Component for Linux (x64) - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	firmware-hdd-2eb81cdd7-HPD8-3.1.x86_64.rpm	VO003840JWDAV	HPD8 (C)	HPD8	更新
995	Online HDD/SSD Flash Component for Linux (x64) - VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	firmware-hdd-a07a420ed1-HPD4-1.1.x86_64.rpm	VO000800JWZJP	HPD4	HPD4	新規追加
996	Online HDD/SSD Flash Component for Linux (x64) - VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	firmware-hdd-a07a420ed1-HPD4-1.1.x86_64.rpm	VO001600JWZJQ	HPD4	HPD4	新規追加
997	Online HDD/SSD Flash Component for Linux (x64) -	firmware-hdd-a07a420ed1-HPD4-1.1.x86_64.rpm	VO003200JWZJR	HPD4	HPD4	新規追加

	VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	pm				
998	Online HDD/SSD Flash Component for Linux (x64) - VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	firmware-hdd-a07a420 ed1-HPD4-1.1.x86_64.r pm	VO006400JWZJT	HPD4	HPD4	新規追加
999	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLV, EO000800JWTLCA and EO001600JWTLCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.r pm	VO000960JWTBK	HPD7 (F)	HPD7	更新
1000	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLV, EO000800JWTLCA and EO001600JWTLCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.r pm	VO001920JWTLB	HPD7 (F)	HPD7	更新
1001	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLV, EO000800JWTLCA and EO001600JWTLCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.r pm	VO003840JWTLN	HPD7 (F)	HPD7	更新
1002	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLV, EO000800JWTLCA and EO001600JWTLCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.r pm	VO007680JWTLB	HPD7 (F)	HPD7	更新

1003	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWCD, EO000400JWBV, EO000800JWCA and EO001600JWCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.rpm	MO000400JWBQ	HPD7 (F)	HPD7	更新
1004	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWCD, EO000400JWBV, EO000800JWCA and EO001600JWCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.rpm	MO000800JWBR	HPD7 (F)	HPD7	更新
1005	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWCD, EO000400JWBV, EO000800JWCA and EO001600JWCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.rpm	MO001600JWBT	HPD7 (F)	HPD7	更新
1006	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU, MO006400JWCD, EO000400JWBV, EO000800JWCA and EO001600JWCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.rpm	MO003200JWBU	HPD7 (F)	HPD7	更新
1007	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWBK, VO001920JWBK, VO003840JWBN, VO007680JWBP, MO000400JWBQ, MO000800JWBR, MO001600JWBT, MO003200JWBU,	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.rpm	MO006400JWCD	HPD7 (F)	HPD7	更新

	MO006400JWTCB, EO000400JWTCB, EO000800JWTCB and EO001600JWTCB Drives					
1008	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWTCB, VO001920JWTCB, VO003840JWTCB, VO007680JWTCB, MO000400JWTCB, MO000800JWTCB, MO001600JWTCB, MO003200JWTCB, MO006400JWTCB, EO000400JWTCB, EO000800JWTCB and EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.r pm	EO000400JWTCB	HPD7 (F)	HPD7	更新
1009	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWTCB, VO001920JWTCB, VO003840JWTCB, VO007680JWTCB, MO000400JWTCB, MO000800JWTCB, MO001600JWTCB, MO003200JWTCB, MO006400JWTCB, EO000400JWTCB, EO000800JWTCB and EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.r pm	EO000800JWTCB	HPD7 (F)	HPD7	更新
1010	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWTCB, VO001920JWTCB, VO003840JWTCB, VO007680JWTCB, MO000400JWTCB, MO000800JWTCB, MO001600JWTCB, MO003200JWTCB, MO006400JWTCB, EO000400JWTCB, EO000800JWTCB and EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.r pm	EO001600JWTCB	HPD7 (F)	HPD7	更新
1011	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWTCB, VO001920JWTCB, VO003840JWTCB, VO007680JWTCB, MO000400JWTCB, MO000800JWTCB, MO001600JWTCB, MO003200JWTCB, MO006400JWTCB, EO000400JWTCB, EO000800JWTCB and EO001600JWTCB Drives	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.r pm	EO003200JWTCB	HPD7 (F)	HPD7	更新
1012	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWTCB, VO001920JWTCB, VO003840JWTCB, VO007680JWTCB,	firmware-hdd-9ad359d ac1-HPD7-6.1.x86_64.r pm	MO001920JWTCB WV	HPD7 (F)	HPD7	更新

	MO000400JWTBQ, MO000800JWTR, MO001600JWBT, MO003200JWBU, MO006400JWTC, EO000400JWTV, EO000800JWTC and EO001600JWTCB Drives					
1013	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	firmware-hdd-35fd24601f-HPD4-1.1.x86_64.rpm	VO000960JWZJF	HPD4	HPD4	新規追加
1014	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	firmware-hdd-35fd24601f-HPD4-1.1.x86_64.rpm	VO001920JWZJH	HPD4	HPD4	新規追加
1015	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	firmware-hdd-35fd24601f-HPD4-1.1.x86_64.rpm	VO003840JWZJK	HPD4	HPD4	新規追加
1016	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	firmware-hdd-35fd24601f-HPD4-1.1.x86_64.rpm	VO007680JWZJL	HPD4	HPD4	新規追加
1017	Online HDD/SSD Flash Component for Linux (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	firmware-hdd-35fd24601f-HPD4-1.1.x86_64.rpm	VO015360JWZJN	HPD4	HPD4	新規追加
1018	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd-8fafc9efb2-HPD3-3.1.x86_64.rpm	VO000960RWUEV	HPD3 (C)	HPD3	更新
1019	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd-8fafc9efb2-HPD3-3.1.x86_64.rpm	VO001920RWUFA	HPD3 (C)	HPD3	更新
1020	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB,	firmware-hdd-8fafc9efb2-HPD3-3.1.x86_64.rpm	VO003840RWUFB	HPD3 (C)	HPD3	更新

	VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives					
1021	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd-8fafc9efb 2-HPD3-3.1.x86_64.rpm	VO007680RWUFC	HPD3 (C)	HPD3	更新
1022	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd-8fafc9efb 2-HPD3-3.1.x86_64.rpm	VO000960RWUFD	HPD3 (C)	HPD3	更新
1023	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd-8fafc9efb 2-HPD3-3.1.x86_64.rpm	VO001920RWUFE	HPD3 (C)	HPD3	更新
1024	Online HDD/SSD Flash Component for Linux (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	firmware-hdd-8fafc9efb 2-HPD3-3.1.x86_64.rpm	VO003840RWUFF	HPD3 (C)	HPD3	更新
1025	Online HDD/SSD Flash Component for Linux (x64) - VO007680JWCNK and VO015300JWCNL Drives	firmware-hdd-4c048aae b0-HPD8-3.1.x86_64.rp m	VO007680JWCNK	HPD8 (C)	HPD8	更新
1026	Online HDD/SSD Flash Component for Linux (x64) - VO007680JWCNK and VO015300JWCNL Drives	firmware-hdd-4c048aae b0-HPD8-3.1.x86_64.rp m	VO015300JWCNL	HPD8 (C)	HPD8	更新
1027	Online HDD/SSD Flash Component for Linux (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	firmware-hdd-8ed8893 abd-HPD9-3.1.x86_64.r pm	VO0480JFDGT	HPD9 (C)	HPD9	更新
1028	Online HDD/SSD Flash Component for Linux (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	firmware-hdd-8ed8893 abd-HPD9-3.1.x86_64.r pm	VO0960JFDGU	HPD9 (C)	HPD9	更新
1029	Online HDD/SSD Flash Component for Linux (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	firmware-hdd-8ed8893 abd-HPD9-3.1.x86_64.r pm	VO1920JFDGV	HPD9 (C)	HPD9	更新

1030	Online HDD/SSD Flash Component for Linux (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	firmware-hdd-8ed8893abd-HPD9-3.1.x86_64.rpm	VO3840JFDHA	HPD9 (C)	HPD9	更新
1031	Online HDD/SSD Flash Component for Linux (x64) - VO1920JEUQQ Drive	firmware-hdd-5d9e841607-HPD3-7.1.x86_64.rpm	VO1920JEUQQ	HPD3 (G)	HPD3	更新
1032	Online HDD/SSD Flash Component for VMware ESXi - EG000300JWBHR Drive	CP045716.zip	EG000300JWBHR	HPD4 (F)	HPD4	更新
1033	Online HDD/SSD Flash Component for VMware ESXi - EG000300JWFB Drive	CP045604.zip	EG000300JWFB	HPD2 (G)	HPD2	更新
1034	Online HDD/SSD Flash Component for VMware ESXi - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	CP045605.zip	EG000600JWJNH	HPD2 (E)	HPD2	更新
1035	Online HDD/SSD Flash Component for VMware ESXi - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	CP045605.zip	EG001200JWJNK	HPD2 (E)	HPD2	更新
1036	Online HDD/SSD Flash Component for VMware ESXi - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive	CP045605.zip	EG000300JWSJP	HPD2 (E)	HPD2	更新
1037	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWFUV and EG001200JWFVA Drives	CP045606.zip	EG000600JWFUV	HPD3 (G)	HPD3	更新
1038	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWFUV and EG001200JWFVA Drives	CP045606.zip	EG001200JWFVA	HPD3 (G)	HPD3	更新
1039	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP and EG001200JWJNQ Drives	CP045607.zip	EG000600JWJNP	HPD3 (D)	HPD3	更新
1040	Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP and EG001200JWJNQ Drives	CP045607.zip	EG001200JWJNQ	HPD3 (D)	HPD3	更新
1041	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWFVC Drive	CP045608.zip	EG001800JWFVC	HPD3 (E)	HPD3	更新
1042	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNL and EG002400JWJNN Drive	CP045723.zip	EG001800JWJNL	HPD2 (F)	HPD2	更新
1043	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNL and EG002400JWJNN Drive	CP045723.zip	EG002400JWJNN	HPD2 (F)	HPD2	更新
1044	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR and EG002400JWJNT Drives	CP045609.zip	EG001800JWJNR	HPD5 (D)	HPD5	更新
1045	Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR and EG002400JWJNT Drives	CP045609.zip	EG002400JWJNT	HPD5 (D)	HPD5	更新
1046	Online HDD/SSD Flash	CP045610.zip	EG0300FCSPH	HPD2 (H)	HPD2	更新

	Component for VMware ESXi - EG0300FCSPH, EG0450FCSPK, EG0600FCSP and EG0900FCSPN Drives					
1047	Online HDD/SSD Flash Component for VMware ESXi - EG0300FCSPH, EG0450FCSPK, EG0600FCSP and EG0900FCSPN Drives	CP045610.zip	EG0450FCSPK	HPD2 (H)	HPD2	更新
1048	Online HDD/SSD Flash Component for VMware ESXi - EG0300FCSPH, EG0450FCSPK, EG0600FCSP and EG0900FCSPN Drives	CP045610.zip	EG0600FCSP	HPD2 (H)	HPD2	更新
1049	Online HDD/SSD Flash Component for VMware ESXi - EG0300FCSPH, EG0450FCSPK, EG0600FCSP and EG0900FCSPN Drives	CP045610.zip	EG0900FCSPN	HPD2 (H)	HPD2	更新
1050	Online HDD/SSD Flash Component for VMware ESXi - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	CP044982.zip	EG0300JEHLV	HPD5 (I)	HPD5	更新
1051	Online HDD/SSD Flash Component for VMware ESXi - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	CP044982.zip	EG0600JEHMA	HPD5 (I)	HPD5	更新
1052	Online HDD/SSD Flash Component for VMware ESXi - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	CP044982.zip	EG0900JEHMB	HPD5 (I)	HPD5	更新
1053	Online HDD/SSD Flash Component for VMware ESXi - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives	CP044982.zip	EG1200JEHMC	HPD5 (I)	HPD5	更新
1054	Online HDD/SSD Flash Component for VMware ESXi - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	CP045611.zip	EG0600JEMCV	HPD6 (H)	HPD6	更新
1055	Online HDD/SSD Flash Component for VMware ESXi - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	CP045611.zip	EG1200JEMDA	HPD6 (H)	HPD6	更新
1056	Online HDD/SSD Flash Component for VMware ESXi - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	CP045611.zip	EG0300JFCKA	HPD6 (H)	HPD6	更新
1057	Online HDD/SSD Flash Component for VMware ESXi - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	CP045611.zip	EG0900JFCKB	HPD6 (H)	HPD6	更新
1058	Online HDD/SSD Flash Component for VMware ESXi - EG0600JETKA, EG0900JETKB	CP045612.zip	EG0600JETKA	HPD7 (E)	HPD7	更新

	and EG1200JETKC Drives					
1059	Online HDD/SSD Flash Component for VMware ESXi - EG0600JETKA, EG0900JETKB and EG1200JETKC Drives	CP045612.zip	EG0900JETKB	HPD7 (E)	HPD7	更新
1060	Online HDD/SSD Flash Component for VMware ESXi - EG0600JETKA, EG0900JETKB and EG1200JETKC Drives	CP045612.zip	EG1200JETKC	HPD7 (E)	HPD7	更新
1061	Online HDD/SSD Flash Component for VMware ESXi - EG1800JEHMD Drive	CP045613.zip	EG1800JEHMD	HPD6 (I)	HPD6	更新
1062	Online HDD/SSD Flash Component for VMware ESXi - EG1800JEMDB Drive	CP045614.zip	EG1800JEMDB	HPD5 (H)	HPD5	更新
1063	Online HDD/SSD Flash Component for VMware ESXi - EG1800JFHMH Drive	CP045615.zip	EG1800JFHMH	HPD7 (G)	HPD7	更新
1064	Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	CP046301.zip	EH000300JWCPK	HPD6 (B)	HPD6	更新
1065	Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	CP046301.zip	EH000600JWCPL	HPD6 (B)	HPD6	更新
1066	Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	CP046301.zip	EH000900JWCPN	HPD6 (B)	HPD6	更新
1067	Online HDD/SSD Flash Component for VMware ESXi - EH000600JWCPL and EH000900JWCPN Drives	CP046300.zip	EH000900JWCPH	HPD8 (B)	HPD8	更新
1068	Online HDD/SSD Flash Component for VMware ESXi - EH000600JWCPL and EH000900JWCPN Drives	CP046300.zip	EH000600JWCPL	HPD8 (B)	HPD8	更新
1069	Online HDD/SSD Flash Component for VMware ESXi - EH000900JWCPH and EH000600JWCPL Drives	CP045618.zip	EH000900JWHPK	HPD4 (D)	HPD4	更新
1070	Online HDD/SSD Flash Component for VMware ESXi - EH000900JWCPH and EH000600JWCPL Drives	CP045618.zip	EH000600JWHPH	HPD4 (D)	HPD4	更新
1071	Online HDD/SSD Flash Component for VMware ESXi - EH000900JWCPH, EH000600JWCPL and EH000300JWCPN Drives	CP045619.zip	EH000900JWHPH	HPD4 (D)	HPD4	更新
1072	Online HDD/SSD Flash Component for VMware ESXi - EH000900JWCPH, EH000600JWCPL and EH000300JWCPN Drives	CP045619.zip	EH000600JWHPN	HPD4 (D)	HPD4	更新
1073	Online HDD/SSD Flash Component for VMware ESXi - EH000900JWCPH, EH000600JWCPL and EH000300JWCPN Drives	CP045619.zip	EH000300JWHPH	HPD4 (D)	HPD4	更新
1074	Online HDD/SSD Flash Component for VMware ESXi	CP045620.zip	EH0300JDXBA	HPD5 (H)	HPD5	更新

	- EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives					
1075	Online HDD/SSD Flash Component for VMware ESXi - EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives	CP045620.zip	EH0450JDXBB	HPD5 (H)	HPD5	更新
1076	Online HDD/SSD Flash Component for VMware ESXi - EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives	CP045620.zip	EH0600JDXBC	HPD5 (H)	HPD5	更新
1077	Online HDD/SSD Flash Component for VMware ESXi - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives	CP045621.zip	EH0300JDYTH	HPD6 (I)	HPD6	更新
1078	Online HDD/SSD Flash Component for VMware ESXi - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives	CP045621.zip	EH0450JDYTK	HPD6 (I)	HPD6	更新
1079	Online HDD/SSD Flash Component for VMware ESXi - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives	CP045621.zip	EH0600JDYTL	HPD6 (I)	HPD6	更新
1080	Online HDD/SSD Flash Component for VMware ESXi - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	CP045622.zip	EH0300JEDHC	HPD4 (I)	HPD4	更新
1081	Online HDD/SSD Flash Component for VMware ESXi - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	CP045622.zip	EH0450JEDHD	HPD4 (I)	HPD4	更新
1082	Online HDD/SSD Flash Component for VMware ESXi - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	CP045622.zip	EH0600JEDHE	HPD4 (I)	HPD4	更新
1083	Online HDD/SSD Flash Component for VMware ESXi - EH0600JDYTN Drive	CP045623.zip	EH0600JDYTN	HPD7 (G)	HPD7	更新
1084	Online HDD/SSD Flash Component for VMware ESXi - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	CP045698.zip	EK0800JVYPN	HPD7 (C)	HPD7	更新
1085	Online HDD/SSD Flash Component for VMware ESXi - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	CP045698.zip	EO1600JVYPP	HPD7 (C)	HPD7	更新
1086	Online HDD/SSD Flash Component for VMware ESXi - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	CP045698.zip	MK0800JVYPQ	HPD7 (C)	HPD7	更新
1087	Online HDD/SSD Flash Component for VMware ESXi - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	CP045698.zip	MO1600JVYPR	HPD7 (C)	HPD7	更新

1088	Online HDD/SSD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP045625.zip	EO000400JWDKP	HPD2 (E)	HPD2	更新
1089	Online HDD/SSD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP045625.zip	EO000800JWDKQ	HPD2 (E)	HPD2	更新
1090	Online HDD/SSD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP045625.zip	EO001600JWDKR	HPD2 (E)	HPD2	更新
1091	Online HDD/SSD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP045625.zip	MO000400JWDK U	HPD2 (E)	HPD2	更新
1092	Online HDD/SSD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP045625.zip	MO000800JWDK V	HPD2 (E)	HPD2	更新
1093	Online HDD/SSD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP045625.zip	MO001600JWDLA	HPD2 (E)	HPD2	更新
1094	Online HDD/SSD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	CP045625.zip	MO003200JWDLB	HPD2 (E)	HPD2	更新
1095	Online HDD/SSD Flash Component for VMware ESXi - MB002000JWFDN and	CP045630.zip	MB002000JWFDN	HPD3 (D)	HPD3	更新

	MB004000JWFVP Drives					
1096	Online HDD/SSD Flash Component for VMware ESXi - MB002000JWFVN and MB004000JWFVP Drives	CP045630.zip	MB004000JWFVP	HPD3 (D)	HPD3	更新
1097	Online HDD/SSD Flash Component for VMware ESXi - MB004000JFVK and MB006000JFVFL Drives	CP045632.zip	MB004000JFVK	HPD3 (D)	HPD3	更新
1098	Online HDD/SSD Flash Component for VMware ESXi - MB004000JFVK and MB006000JFVFL Drives	CP045632.zip	MB006000JFVFL	HPD3 (D)	HPD3	更新
1099	Online HDD/SSD Flash Component for VMware ESXi - MB004000JWKGU Drive	CP045633.zip	MB004000JWKGU	HPD1 (E)	HPD1	更新
1100	Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives	CP045979.zip	MB004000JWWQ B	HPD4 (B)	HPD4	更新
1101	Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives	CP045979.zip	MB002000JWWQ A	HPD4 (B)	HPD4	更新
1102	Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives	CP045979.zip	MB001000JWWP V	HPD4 (B)	HPD4	更新
1103	Online HDD/SSD Flash Component for VMware ESXi - MB006000JWKGN Drive	CP045636.zip	MB006000JWKGN	HPD1 (E)	HPD1	更新
1104	Online HDD/SSD Flash Component for VMware ESXi - MB008000JWJRQ and MB006000JWJRP Drives	CP046240.zip	MB008000JWJRQ	HPD8	HPD8	更新
1105	Online HDD/SSD Flash Component for VMware ESXi - MB008000JWJRQ and MB006000JWJRP Drives	CP046240.zip	MB006000JWJRP	HPD8	HPD8	更新
1106	Online HDD/SSD Flash Component for VMware ESXi - MB008000JWRTD Drive	CP045638.zip	MB008000JWRTD	HPD1 (E)	HPD1	更新
1107	Online HDD/SSD Flash Component for VMware ESXi - MB008000JWWQP and MB006000JWWQN Drives	CP045696.zip	MB008000JWWQ P	HPD2 (C)	HPD2	更新
1108	Online HDD/SSD Flash Component for VMware ESXi - MB008000JWWQP and MB006000JWWQN Drives	CP045696.zip	MB006000JWWQ N	HPD2 (C)	HPD2	更新
1109	Online HDD/SSD Flash Component for VMware ESXi - MB010000JWAYK and MB008000JWAYH Drives	CP045640.zip	MB010000JWAYK	HPD5 (F)	HPD5	更新
1110	Online HDD/SSD Flash Component for VMware ESXi - MB010000JWAYK and MB008000JWAYH Drives	CP045640.zip	MB008000JWAYH	HPD5 (F)	HPD5	更新
1111	Online HDD/SSD Flash Component for VMware ESXi - MB012000JWDFD Drive	CP045643.zip	MB012000JWDFD	HPD2 (F)	HPD2	更新
1112	Online HDD/SSD Flash Component for VMware ESXi	CP045647.zip	MB014000JUWDB	HPD2 (E)	HPD2	更新

	- MB014000JWUDB Drive					
1113	Online HDD/SSD Flash Component for VMware ESXi - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	CP045650.zip	MB1000JVYZL	HPD3 (E)	HPD3	更新
1114	Online HDD/SSD Flash Component for VMware ESXi - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	CP045650.zip	MB2000JVYZN	HPD3 (E)	HPD3	更新
1115	Online HDD/SSD Flash Component for VMware ESXi - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	CP045650.zip	MB3000JVYZP	HPD3 (E)	HPD3	更新
1116	Online HDD/SSD Flash Component for VMware ESXi - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	CP045650.zip	MB4000JVYZQ	HPD3 (E)	HPD3	更新
1117	Online HDD/SSD Flash Component for VMware ESXi - MB2000JFDSL and MB4000JFDSN Drives	CP045653.zip	MB2000JFDSL	HPD4 (H)	HPD4	更新
1118	Online HDD/SSD Flash Component for VMware ESXi - MB2000JFDSL and MB4000JFDSN Drives	CP045653.zip	MB4000JFDSN	HPD4 (H)	HPD4	更新
1119	Online HDD/SSD Flash Component for VMware ESXi - MB2000JFEML and MB4000JFEMN Drives	CP045654.zip	MB2000JFEML	HPD6 (H)	HPD6	更新
1120	Online HDD/SSD Flash Component for VMware ESXi - MB2000JFEML and MB4000JFEMN Drives	CP045654.zip	MB4000JFEMN	HPD6 (H)	HPD6	更新
1121	Online HDD/SSD Flash Component for VMware ESXi - MB2000JFEPA and MB4000JFEPB Drives	CP045655.zip	MB2000JFEPA	HPD5 (H)	HPD5	更新
1122	Online HDD/SSD Flash Component for VMware ESXi - MB2000JFEPA and MB4000JFEPB Drives	CP045655.zip	MB4000JFEPB	HPD5 (H)	HPD5	更新
1123	Online HDD/SSD Flash Component for VMware ESXi - MB4000JEFNC and MB6000JEFND Drives	CP045658.zip	MB4000JEFNC	HPD9 (H)	HPD9	更新
1124	Online HDD/SSD Flash Component for VMware ESXi - MB4000JEFNC and MB6000JEFND Drives	CP045658.zip	MB6000JEFND	HPD9 (H)	HPD9	更新
1125	Online HDD/SSD Flash Component for VMware ESXi - MB4000JEQNL and MB6000JEQNN Drives	CP045659.zip	MB4000JEQNL	HPDB (H)	HPDB	更新
1126	Online HDD/SSD Flash Component for VMware ESXi - MB4000JEQNL and MB6000JEQNN Drives	CP045659.zip	MB6000JEQNN	HPDB (H)	HPDB	更新
1127	Online HDD/SSD Flash Component for VMware ESXi - MB4000JEXYA and MB6000JEXYB Drives	CP045660.zip	MB4000JEXYA	HPD9 (E)	HPD9	更新
1128	Online HDD/SSD Flash	CP045660.zip	MB6000JEXYB	HPD9 (E)	HPD9	更新

	Component for VMware ESXi - MB4000JEXYA and MB6000JEXYB Drives					
1129	Online HDD/SSD Flash Component for VMware ESXi - MB6000JEQUV and MB8000JEQVA Drives	CP045666.zip	MB6000JEQUV	HPDB (H)	HPDB	更新
1130	Online HDD/SSD Flash Component for VMware ESXi - MB6000JEQUV and MB8000JEQVA Drives	CP045666.zip	MB8000JEQVA	HPDB (H)	HPDB	更新
1131	Online HDD/SSD Flash Component for VMware ESXi - MB6000JVYYV Drive	CP045667.zip	MB6000JVYYV	HPD2 (H)	HPD2	更新
1132	Online HDD/SSD Flash Component for VMware ESXi - MB8000JFECQ Drive	CP045668.zip	MB8000JFECQ	HPD7 (G)	HPD7	更新
1133	Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives	CP045674.zip	MM1000JEFRB	HPD8 (G)	HPD8	更新
1134	Online HDD/SSD Flash Component for VMware ESXi - MM1000JEFRB and MM2000JEFRC Drives	CP045674.zip	MM2000JEFRC	HPD8 (G)	HPD8	更新
1135	Online HDD/SSD Flash Component for VMware ESXi - MM1000JFJTH Drive	CP045675.zip	MM1000JFJTH	HPD3 (G)	HPD3	更新
1136	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	CP045676.zip	MO000400JWFVN	HPD5 (E)	HPD5	更新
1137	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	CP045676.zip	MO000800JWFVP	HPD5 (E)	HPD5	更新
1138	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	CP045676.zip	MO001600JWFVQ	HPD5 (E)	HPD5	更新
1139	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	CP045676.zip	MO003200JWFVR	HPD5 (E)	HPD5	更新
1140	Online HDD/SSD Flash Component for VMware ESXi	CP045676.zip	MO000960JWFVT	HPD5 (E)	HPD5	更新

	- MO000400JWFVN, MO000800JWFWP, MO001600JFWQ, MO003200JFWR, MO000960JFWT, MO001920JFWU and MO003840JFWV Drives					
1141	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFWP, MO001600JFWQ, MO003200JFWR, MO000960JFWT, MO001920JFWU and MO003840JFWV Drives	CP045676.zip	MO001920JFWU	HPD5 (E)	HPD5	更新
1142	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFWP, MO001600JFWQ, MO003200JFWR, MO000960JFWT, MO001920JFWU and MO003840JFWV Drives	CP045676.zip	MO003840JFWV	HPD5 (E)	HPD5	更新
1143	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP045976.zip	MO000400JWUFT	HPD3 (B)	HPD3	更新
1144	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP045976.zip	MO000800JWUFU	HPD3 (B)	HPD3	更新
1145	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP045976.zip	MO001600JWUFV	HPD3 (B)	HPD3	更新
1146	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP045976.zip	MO003200JWUGA	HPD3 (B)	HPD3	更新
1147	Online HDD/SSD Flash	CP045976.zip	MO006400JWUGB	HPD3 (B)	HPD3	更新

	Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives		B			
1148	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP045976.zip	EO000400JWUGC	HPD3 (B)	HPD3	更新
1149	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP045976.zip	EO000800JWUGD	HPD3 (B)	HPD3	更新
1150	Online HDD/SSD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	CP045976.zip	EO001600JWUGE	HPD3 (B)	HPD3	更新
1151	Online HDD/SSD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives	CP045677.zip	EO0800JEFPF	HPD3 (H)	HPD3	更新
1152	Online HDD/SSD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives	CP045677.zip	EO0400JEFPE	HPD3 (H)	HPD3	更新
1153	Online HDD/SSD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives	CP045677.zip	EO0200JEFPD	HPD3 (H)	HPD3	更新
1154	Online HDD/SSD Flash Component for VMware ESXi - MO0200JEFNV,	CP045677.zip	MO1600JEFPC	HPD3 (H)	HPD3	更新

	MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives					
1155	Online HDD/SSD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives	CP045677.zip	MO0800JEFPB	HPD3 (H)	HPD3	更新
1156	Online HDD/SSD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives	CP045677.zip	MO0400JEFPA	HPD3 (H)	HPD3	更新
1157	Online HDD/SSD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives	CP045677.zip	MO0200JEFNV	HPD3 (H)	HPD3	更新
1158	Online HDD/SSD Flash Component for VMware ESXi - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	CP045708.zip	MO0400JFFCF	HPD9 (C)	HPD9	更新
1159	Online HDD/SSD Flash Component for VMware ESXi - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	CP045708.zip	MO0800JFFCH	HPD9 (C)	HPD9	更新
1160	Online HDD/SSD Flash Component for VMware ESXi - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	CP045708.zip	MO1600JFFCK	HPD9 (C)	HPD9	更新
1161	Online HDD/SSD Flash Component for VMware ESXi - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	CP045708.zip	MO3200JFFCL	HPD9 (C)	HPD9	更新
1162	Online HDD/SSD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	CP045711.zip	VK000960JWSSQ	HPD8 (D)	HPD8	更新
1163	Online HDD/SSD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and	CP045711.zip	VK001920JWSSR	HPD8 (D)	HPD8	更新

	VO015300JWSSV Drives					
1164	Online HDD/SSD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	CP045711.zip	VK003840JWSST	HPD8 (D)	HPD8	更新
1165	Online HDD/SSD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	CP045711.zip	VK007680JWSSU	HPD8 (D)	HPD8	更新
1166	Online HDD/SSD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	CP045711.zip	VO015300JWSSV	HPD8 (D)	HPD8	更新
1167	Online HDD/SSD Flash Component for VMware ESXi - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	CP044848.zip	VO000480JWDAR	HPD8 (F)	HPD8	更新
1168	Online HDD/SSD Flash Component for VMware ESXi - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	CP044848.zip	VO000960JWDAT	HPD8 (F)	HPD8	更新
1169	Online HDD/SSD Flash Component for VMware ESXi - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	CP044848.zip	VO001920JWDAU	HPD8 (F)	HPD8	更新
1170	Online HDD/SSD Flash Component for VMware ESXi - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	CP044848.zip	VO003840JWDAV	HPD8 (F)	HPD8	更新
1171	Online HDD/SSD Flash Component for VMware ESXi - VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	CP046321.zip	VO000800JWZJP	HPD4	HPD4	新規追加
1172	Online HDD/SSD Flash Component for VMware ESXi - VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	CP046321.zip	VO001600JWZJQ	HPD4	HPD4	新規追加
1173	Online HDD/SSD Flash Component for VMware ESXi - VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	CP046321.zip	VO003200JWZJR	HPD4	HPD4	新規追加
1174	Online HDD/SSD Flash Component for VMware ESXi	CP046321.zip	VO006400JWZJT	HPD4	HPD4	新規追加

	- VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives					
1175	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLV, EO000800JWTLCA, EO001600JWTLCB Drives	CP045688.zip	VO000960JWTBK	HPD7 (E)	HPD7	更新
1176	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLV, EO000800JWTLCA, EO001600JWTLCB Drives	CP045688.zip	VO001920JWTLB	HPD7 (E)	HPD7	更新
1177	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLV, EO000800JWTLCA, EO001600JWTLCB Drives	CP045688.zip	VO003840JWTLN	HPD7 (E)	HPD7	更新
1178	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB, MO000400JWTLQ, MO000800JWTLR, MO001600JWTLT, MO003200JWTLU, MO006400JWTLCD, EO000400JWTLV, EO000800JWTLCA, EO001600JWTLCB Drives	CP045688.zip	VO007680JWTLB	HPD7 (E)	HPD7	更新
1179	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWTBK, VO001920JWTLB, VO003840JWTLN, VO007680JWTLB,	CP045688.zip	MO000400JWTL Q	HPD7 (E)	HPD7	更新

	MO000400JWBQ, MO000800JWBTR, MO001600JWBTT, MO003200JWBTTU, MO006400JWBTTD, EO000400JWBTV, EO000800JWBTA, EO001600JWBTCB Drives					
1180	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWBTK, VO001920JWBTL, VO003840JWBTN, VO007680JWBTP, MO000400JWBQ, MO000800JWBTR, MO001600JWBTT, MO003200JWBTTU, MO006400JWBTTD, EO000400JWBTV, EO000800JWBTA, EO001600JWBTCB Drives	CP045688.zip	MO000800JWBTR	HPD7 (E)	HPD7	更新
1181	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWBTK, VO001920JWBTL, VO003840JWBTN, VO007680JWBTP, MO000400JWBQ, MO000800JWBTR, MO001600JWBTT, MO003200JWBTTU, MO006400JWBTTD, EO000400JWBTV, EO000800JWBTA, EO001600JWBTCB Drives	CP045688.zip	MO001600JWBTT	HPD7 (E)	HPD7	更新
1182	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWBTK, VO001920JWBTL, VO003840JWBTN, VO007680JWBTP, MO000400JWBQ, MO000800JWBTR, MO001600JWBTT, MO003200JWBTTU, MO006400JWBTTD, EO000400JWBTV, EO000800JWBTA, EO001600JWBTCB Drives	CP045688.zip	MO003200JWBTTU	HPD7 (E)	HPD7	更新
1183	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWBTK, VO001920JWBTL, VO003840JWBTN, VO007680JWBTP, MO000400JWBQ, MO000800JWBTR, MO001600JWBTT, MO003200JWBTTU, MO006400JWBTTD, EO000400JWBTV, EO000800JWBTA, EO001600JWBTCB Drives	CP045688.zip	MO006400JWBTTD	HPD7 (E)	HPD7	更新
1184	Online HDD/SSD Flash Component for VMware ESXi	CP045688.zip	EO000400JWBTV	HPD7 (E)	HPD7	更新

	- VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives					
1185	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP045688.zip	EO000800JWTKA	HPD7 (E)	HPD7	更新
1186	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP045688.zip	EO001600JWTKC	HPD7 (E)	HPD7	更新
1187	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA, EO001600JWTKC Drives	CP045688.zip	EO003200JWTKC	HPD7 (E)	HPD7	更新
1188	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV,	CP045688.zip	MO001920JWW WV	HPD7 (E)	HPD7	更新

	EO000800JWTC, EO001600JWTCB Drives					
1189	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	CP046318.zip	VO000960JWZJF	HPD4	HPD4	新規追加
1190	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	CP046318.zip	VO001920JWZJH	HPD4	HPD4	新規追加
1191	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	CP046318.zip	VO003840JWZJK	HPD4	HPD4	新規追加
1192	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	CP046318.zip	VO007680JWZJL	HPD4	HPD4	新規追加
1193	Online HDD/SSD Flash Component for VMware ESXi - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	CP046318.zip	VO015360JWZJN	HPD4	HPD4	新規追加
1194	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP045722.zip	VO000960RWUEV	HPD3 (D)	HPD3	更新
1195	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP045722.zip	VO001920RWUFA	HPD3 (D)	HPD3	更新
1196	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP045722.zip	VO003840RWUFB	HPD3 (D)	HPD3	更新
1197	Online HDD/SSD Flash Component for VMware ESXi	CP045722.zip	VO007680RWUFC	HPD3 (D)	HPD3	更新

	- VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives					
1198	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP045722.zip	VO000960RWUFD	HPD3 (D)	HPD3	更新
1199	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP045722.zip	VO001920RWUFE	HPD3 (D)	HPD3	更新
1200	Online HDD/SSD Flash Component for VMware ESXi - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	CP045722.zip	VO003840RWUFF	HPD3 (D)	HPD3	更新
1201	Online HDD/SSD Flash Component for VMware ESXi - VO007680JWCNK and VO015300JWCNL Drives	CP045689.zip	VO007680JWCNK	HPD8 (D)	HPD8	更新
1202	Online HDD/SSD Flash Component for VMware ESXi - VO007680JWCNK and VO015300JWCNL Drives	CP045689.zip	VO015300JWCNL	HPD8 (D)	HPD8	更新
1203	Online HDD/SSD Flash Component for VMware ESXi - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	CP045701.zip	VO0480JFDGT	HPD9 (C)	HPD9	更新
1204	Online HDD/SSD Flash Component for VMware ESXi - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	CP045701.zip	VO0960JFDGU	HPD9 (C)	HPD9	更新
1205	Online HDD/SSD Flash Component for VMware ESXi - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	CP045701.zip	VO1920JFDGV	HPD9 (C)	HPD9	更新
1206	Online HDD/SSD Flash Component for VMware ESXi - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	CP045701.zip	VO3840JFDHA	HPD9 (C)	HPD9	更新

1207	Online HDD/SSD Flash Component for VMware ESXi - VO1920JEUQQ Drive	CP045690.zip	VO1920JEUQQ	HPD3 (H)	HPD3	更新
1208	Online HDD/SSD Flash Component for VMware ESXi -MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	CP045646.zip	MB014000JWRTH	HPD2 (E)	HPD2	更新
1209	Online HDD/SSD Flash Component for VMware ESXi -MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	CP045646.zip	MB012000JWRTF	HPD2 (E)	HPD2	更新
1210	Online HDD/SSD Flash Component for VMware ESXi -MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	CP045646.zip	MB010000JWRTE	HPD2 (E)	HPD2	更新
1211	Online HDD/SSD Flash Component for Windows (x64) - EG000300JWBHR Drive	cp045490.exe	EG000300JWBHR	HPD4 (D)	HPD4	更新
1212	Online HDD/SSD Flash Component for Windows (x64) - EG000300JWFVB Drive	cp045489.exe	EG000300JWFVB	HPD2 (E)	HPD2	更新
1213	Online HDD/SSD Flash Component for Windows (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drives	cp045492.exe	EG000300JWSJP	HPD2 (D)	HPD2	更新
1214	Online HDD/SSD Flash Component for Windows (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drives	cp045492.exe	EG000600JWJNH	HPD2 (D)	HPD2	更新
1215	Online HDD/SSD Flash Component for Windows (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drives	cp045492.exe	EG001200JWJNK	HPD2 (D)	HPD2	更新
1216	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWFUV and EG001200JWFVA Drives	cp045491.exe	EG000600JWFUV	HPD3 (E)	HPD3	更新
1217	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWFUV and EG001200JWFVA Drives	cp045491.exe	EG001200JWFVA	HPD3 (E)	HPD3	更新
1218	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP and EG001200JWJNQ Drives	cp045493.exe	EG000600JWJNP	HPD3 (C)	HPD3	更新
1219	Online HDD/SSD Flash Component for Windows (x64) - EG000600JWJNP and EG001200JWJNQ Drives	cp045493.exe	EG001200JWJNQ	HPD3 (C)	HPD3	更新
1220	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWFVC Drive	cp045494.exe	EG001800JWFVC	HPD3 (D)	HPD3	更新
1221	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNL and EG002400JWJNN Drives	cp045772.exe	EG001800JWJNL	HPD2 (E)	HPD2	更新
1222	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNL and	cp045772.exe	EG002400JWJNN	HPD2 (E)	HPD2	更新

	EG002400JWJNN Drives					
1223	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR and EG002400JWJNT Drives	cp045496.exe	EG001800JWJNR	HPD5 (C)	HPD5	更新
1224	Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNR and EG002400JWJNT Drives	cp045496.exe	EG002400JWJNT	HPD5 (C)	HPD5	更新
1225	Online HDD/SSD Flash Component for Windows (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPK and EG0900FCSPN Drives	cp045495.exe	EG0300FCSPH	HPD2 (F)	HPD2	更新
1226	Online HDD/SSD Flash Component for Windows (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPK and EG0900FCSPN Drives	cp045495.exe	EG0450FCSPK	HPD2 (F)	HPD2	更新
1227	Online HDD/SSD Flash Component for Windows (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPK and EG0900FCSPN Drives	cp045495.exe	EG0600FCSPK	HPD2 (F)	HPD2	更新
1228	Online HDD/SSD Flash Component for Windows (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPK and EG0900FCSPN Drives	cp045495.exe	EG0900FCSPN	HPD2 (F)	HPD2	更新
1229	Online HDD/SSD Flash Component for Windows (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB and EG1200JEHMC Drives	cp045497.exe	EG0300JEHLV	HPD5 (G)	HPD5	更新
1230	Online HDD/SSD Flash Component for Windows (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB and EG1200JEHMC Drives	cp045497.exe	EG0600JEHMA	HPD5 (G)	HPD5	更新
1231	Online HDD/SSD Flash Component for Windows (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB and EG1200JEHMC Drives	cp045497.exe	EG0900JEHMB	HPD5 (G)	HPD5	更新
1232	Online HDD/SSD Flash Component for Windows (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB and EG1200JEHMC Drives	cp045497.exe	EG1200JEHMC	HPD5 (G)	HPD5	更新
1233	Online HDD/SSD Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	cp045498.exe	EG0600JEMCV	HPD6 (F)	HPD6	更新
1234	Online HDD/SSD Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	cp045498.exe	EG1200JEMDA	HPD6 (F)	HPD6	更新
1235	Online HDD/SSD Flash Component for Windows (x64) - EG0300JFCKA,	cp045498.exe	EG0300JFCKA	HPD6 (F)	HPD6	更新

	EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives					
1236	Online HDD/SSD Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives	cp045498.exe	EG0900JFCKB	HPD6 (F)	HPD6	更新
1237	Online HDD/SSD Flash Component for Windows (x64) - EG0600JETKA, EG0900JETKB and EG1200JETKC Drives	cp045499.exe	EG0600JETKA	HPD7 (D)	HPD7	更新
1238	Online HDD/SSD Flash Component for Windows (x64) - EG0600JETKA, EG0900JETKB and EG1200JETKC Drives	cp045499.exe	EG0900JETKB	HPD7 (D)	HPD7	更新
1239	Online HDD/SSD Flash Component for Windows (x64) - EG0600JETKA, EG0900JETKB and EG1200JETKC Drives	cp045499.exe	EG1200JETKC	HPD7 (D)	HPD7	更新
1240	Online HDD/SSD Flash Component for Windows (x64) - EG1800JEHMD Drive	cp045500.exe	EG1800JEHMD	HPD6 (G)	HPD6	更新
1241	Online HDD/SSD Flash Component for Windows (x64) - EG1800JEMDB Drive	cp045501.exe	EG1800JEMDB	HPD5 (F)	HPD5	更新
1242	Online HDD/SSD Flash Component for Windows (x64) - EG1800JFHMH Drive	cp045502.exe	EG1800JFHMH	HPD7 (F)	HPD7	更新
1243	Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	cp046213.exe	EH000300JWCPK	HPD6 (B)	HPD6	更新
1244	Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	cp046213.exe	EH000600JWCPL	HPD6 (B)	HPD6	更新
1245	Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives	cp046213.exe	EH000900JWCPN	HPD6 (B)	HPD6	更新
1246	Online HDD/SSD Flash Component for Windows (x64) - EH000600JWCPF and EH000900JWCPH Drives	cp046269.exe	EH000900JWCPH	HPD8 (B)	HPD8	更新
1247	Online HDD/SSD Flash Component for Windows (x64) - EH000600JWCPF and EH000900JWCPH Drives	cp046269.exe	EH000600JWCPF	HPD8 (B)	HPD8	更新
1248	Online HDD/SSD Flash Component for Windows (x64) - EH000900JWHPK and EH000600JWHPH Drives	cp045505.exe	EH000900JWHPK	HPD4 (C)	HPD4	更新
1249	Online HDD/SSD Flash Component for Windows (x64) - EH000900JWHPK and EH000600JWHPH Drives	cp045505.exe	EH000600JWHPH	HPD4 (C)	HPD4	更新
1250	Online HDD/SSD Flash Component for Windows (x64) - EH000900JWHPK, EH000600JWHPH and	cp045506.exe	EH000900JWHPH	HPD4 (C)	HPD4	更新

	EH000300JWHPL Drives					
1251	Online HDD/SSD Flash Component for Windows (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	cp045506.exe	EH000600JWHPN	HPD4 (C)	HPD4	更新
1252	Online HDD/SSD Flash Component for Windows (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives	cp045506.exe	EH000300JWHPL	HPD4 (C)	HPD4	更新
1253	Online HDD/SSD Flash Component for Windows (x64) - EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives	cp045507.exe	EH0300JDXBA	HPD5 (F)	HPD5	更新
1254	Online HDD/SSD Flash Component for Windows (x64) - EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives	cp045507.exe	EH0450JDXBB	HPD5 (F)	HPD5	更新
1255	Online HDD/SSD Flash Component for Windows (x64) - EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives	cp045507.exe	EH0600JDXBC	HPD5 (F)	HPD5	更新
1256	Online HDD/SSD Flash Component for Windows (x64) - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives	cp045508.exe	EH0300JDYTH	HPD6 (G)	HPD6	更新
1257	Online HDD/SSD Flash Component for Windows (x64) - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives	cp045508.exe	EH0450JDYTK	HPD6 (G)	HPD6	更新
1258	Online HDD/SSD Flash Component for Windows (x64) - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives	cp045508.exe	EH0600JDYTL	HPD6 (G)	HPD6	更新
1259	Online HDD/SSD Flash Component for Windows (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	cp045509.exe	EH0300JEDHC	HPD4 (H)	HPD4	更新
1260	Online HDD/SSD Flash Component for Windows (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	cp045509.exe	EH0450JEDHD	HPD4 (H)	HPD4	更新
1261	Online HDD/SSD Flash Component for Windows (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives	cp045509.exe	EH0600JEDHE	HPD4 (H)	HPD4	更新
1262	Online HDD/SSD Flash Component for Windows (x64) - EH0600JDYTN Drive	cp045510.exe	EH0600JDYTN	HPD7 (E)	HPD7	更新
1263	Online HDD/SSD Flash Component for Windows (x64) - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	cp045587.exe	EK0800JVYPN	HPD7 (C)	HPD7	更新
1264	Online HDD/SSD Flash Component for Windows	cp045587.exe	EO1600JVYPP	HPD7 (C)	HPD7	更新

	(x64) - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives					
1265	Online HDD/SSD Flash Component for Windows (x64) - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	cp045587.exe	MK0800JVYPQ	HPD7 (C)	HPD7	更新
1266	Online HDD/SSD Flash Component for Windows (x64) - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives	cp045587.exe	MO1600JVYPR	HPD7 (C)	HPD7	更新
1267	Online HDD/SSD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp045512.exe	EO000400JWDKP	HPD2 (D)	HPD2	更新
1268	Online HDD/SSD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp045512.exe	EO000800JWDKQ	HPD2 (D)	HPD2	更新
1269	Online HDD/SSD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp045512.exe	EO001600JWDKR	HPD2 (D)	HPD2	更新
1270	Online HDD/SSD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp045512.exe	MO000400JWDK U	HPD2 (D)	HPD2	更新
1271	Online HDD/SSD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp045512.exe	MO000800JWDK V	HPD2 (D)	HPD2	更新
1272	Online HDD/SSD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and	cp045512.exe	MO001600JWDLA	HPD2 (D)	HPD2	更新

	MO003200JWDLB Drives					
1273	Online HDD/SSD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives	cp045512.exe	MO003200JWDLB	HPD2 (D)	HPD2	更新
1274	Online HDD/SSD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives	cp045518.exe	MB002000JWFVN	HPD3 (C)	HPD3	更新
1275	Online HDD/SSD Flash Component for Windows (x64) - MB002000JWFVN and MB004000JWFVP Drives	cp045518.exe	MB004000JWFVP	HPD3 (C)	HPD3	更新
1276	Online HDD/SSD Flash Component for Windows (x64) - MB004000JWFVK and MB006000JWFVL Drives	cp045520.exe	MB004000JWFVK	HPD3 (C)	HPD3	更新
1277	Online HDD/SSD Flash Component for Windows (x64) - MB004000JWFVK and MB006000JWFVL Drives	cp045520.exe	MB006000JWFVL	HPD3 (C)	HPD3	更新
1278	Online HDD/SSD Flash Component for Windows (x64) - MB004000JWKGU Drive	cp045521.exe	MB004000JWKGU	HPD1 (D)	HPD1	更新
1279	Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives	cp045900.exe	MB004000JWWQ B	HPD4 (B)	HPD4	更新
1280	Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives	cp045900.exe	MB002000JWWQ A	HPD4 (B)	HPD4	更新
1281	Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives	cp045900.exe	MB001000JWWP V	HPD4 (B)	HPD4	更新
1282	Online HDD/SSD Flash Component for Windows (x64) - MB006000JWKGN Drive	cp045524.exe	MB006000JWKGN	HPD1 (D)	HPD1	更新
1283	Online HDD/SSD Flash Component for Windows (x64) - MB008000JWJRQ and MB006000JWJRP Drives	cp046242.exe	MB008000JWJRQ	HPD8	HPD8	更新
1284	Online HDD/SSD Flash Component for Windows (x64) - MB008000JWJRQ and MB006000JWJRP Drives	cp046242.exe	MB006000JWJRP	HPD8	HPD8	更新
1285	Online HDD/SSD Flash Component for Windows (x64) - MB008000JWRTD Drive	cp045526.exe	MB008000JWRTD	HPD1 (D)	HPD1	更新
1286	Online HDD/SSD Flash Component for Windows (x64) - MB008000JWWQP and MB006000JWWQN Drives	cp045585.exe	MB008000JWWQ P	HPD2 (C)	HPD2	更新

1287	Online HDD/SSD Flash Component for Windows (x64) - MB008000JWWQP and MB006000JWWQN Drives	cp045585.exe	MB006000JWWQN	HPD2 (C)	HPD2	更新
1288	Online HDD/SSD Flash Component for Windows (x64) - MB010000JWAYK and MB008000JWAYH Drives	cp045528.exe	MB010000JWAYK	HPD5 (E)	HPD5	更新
1289	Online HDD/SSD Flash Component for Windows (x64) - MB010000JWAYK and MB008000JWAYH Drives	cp045528.exe	MB008000JWAYH	HPD5 (E)	HPD5	更新
1290	Online HDD/SSD Flash Component for Windows (x64) - MB012000JWDFD Drive	cp045531.exe	MB012000JWDFD	HPD2 (E)	HPD2	更新
1291	Online HDD/SSD Flash Component for Windows (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	cp045534.exe	MB014000JWRTH	HPD2 (D)	HPD2	更新
1292	Online HDD/SSD Flash Component for Windows (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	cp045534.exe	MB012000JWRTF	HPD2 (D)	HPD2	更新
1293	Online HDD/SSD Flash Component for Windows (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives	cp045534.exe	MB010000JWRTE	HPD2 (D)	HPD2	更新
1294	Online HDD/SSD Flash Component for Windows (x64) - MB014000JWUDB Drive	cp045535.exe	MB014000JWUDB	HPD2 (D)	HPD2	更新
1295	Online HDD/SSD Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	cp045538.exe	MB1000JVYZL	HPD3 (D)	HPD3	更新
1296	Online HDD/SSD Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	cp045538.exe	MB2000JVYZN	HPD3 (D)	HPD3	更新
1297	Online HDD/SSD Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	cp045538.exe	MB3000JVYZP	HPD3 (D)	HPD3	更新
1298	Online HDD/SSD Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives	cp045538.exe	MB4000JVYZQ	HPD3 (D)	HPD3	更新
1299	Online HDD/SSD Flash Component for Windows (x64) - MB2000JFDSL and MB4000JFDSN Drives	cp045541.exe	MB2000JFDSL	HPD4 (F)	HPD4	更新
1300	Online HDD/SSD Flash Component for Windows (x64) - MB2000JFDSL and MB4000JFDSN Drives	cp045541.exe	MB4000JFDSN	HPD4 (F)	HPD4	更新
1301	Online HDD/SSD Flash Component for Windows	cp045542.exe	MB2000JFEML	HPD6 (F)	HPD6	更新

	(x64) - MB2000JFEML and MB4000JFEMN Drives					
1302	Online HDD/SSD Flash Component for Windows (x64) - MB2000JFEML and MB4000JFEMN Drives	cp045542.exe	MB4000JFEMN	HPD6 (F)	HPD6	更新
1303	Online HDD/SSD Flash Component for Windows (x64) - MB2000JFEPA and MB4000JFEPB Drives	cp045543.exe	MB2000JFEPA	HPD5 (F)	HPD5	更新
1304	Online HDD/SSD Flash Component for Windows (x64) - MB2000JFEPA and MB4000JFEPB Drives	cp045543.exe	MB4000JFEPB	HPD5 (F)	HPD5	更新
1305	Online HDD/SSD Flash Component for Windows (x64) - MB4000JEFNC and MB6000JEFND Drives	cp045546.exe	MB4000JEFNC	HPD9 (F)	HPD9	更新
1306	Online HDD/SSD Flash Component for Windows (x64) - MB4000JEFNC and MB6000JEFND Drives	cp045546.exe	MB6000JEFND	HPD9 (F)	HPD9	更新
1307	Online HDD/SSD Flash Component for Windows (x64) - MB4000JEqNL and MB6000JEqNN Drives	cp045547.exe	MB4000JEqNL	HPDB (F)	HPDB	更新
1308	Online HDD/SSD Flash Component for Windows (x64) - MB4000JEqNL and MB6000JEqNN Drives	cp045547.exe	MB6000JEqNN	HPDB (F)	HPDB	更新
1309	Online HDD/SSD Flash Component for Windows (x64) - MB4000JEXYA and MB6000JEXYB Drives	cp045548.exe	MB4000JEXYA	HPD9 (D)	HPD9	更新
1310	Online HDD/SSD Flash Component for Windows (x64) - MB4000JEXYA and MB6000JEXYB Drives	cp045548.exe	MB6000JEXYB	HPD9 (D)	HPD9	更新
1311	Online HDD/SSD Flash Component for Windows (x64) - MB6000JEqUV and MB8000JEqVA Drives	cp045554.exe	MB6000JEqUV	HPDB (F)	HPDB	更新
1312	Online HDD/SSD Flash Component for Windows (x64) - MB6000JEqUV and MB8000JEqVA Drives	cp045554.exe	MB8000JEqVA	HPDB (F)	HPDB	更新
1313	Online HDD/SSD Flash Component for Windows (x64) - MB6000JVYYV Drive	cp045555.exe	MB6000JVYYV	HPD2 (F)	HPD2	更新
1314	Online HDD/SSD Flash Component for Windows (x64) - MB6000JVYZD and MB4000JVYZC Drives	cp045556.exe	MB6000JVYZD	HPD4 (D)	HPD4	更新
1315	Online HDD/SSD Flash Component for Windows (x64) - MB6000JVYZD and MB4000JVYZC Drives	cp045556.exe	MB4000JVYZC	HPD4 (D)	HPD4	更新
1316	Online HDD/SSD Flash Component for Windows (x64) - MB8000JFEcQ Drive	cp045558.exe	MB8000JFEcQ	HPD7 (E)	HPD7	更新
1317	Online HDD/SSD Flash Component for Windows (x64) - MM1000JEFrB and MM2000JEFrC Drives	cp045563.exe	MM1000JEFrB	HPD8 (E)	HPD8	更新
1318	Online HDD/SSD Flash Component for Windows	cp045563.exe	MM2000JEFrC	HPD8 (E)	HPD8	更新

	(x64) - MM1000JEFRB and MM2000JEFRC Drives					
1319	Online HDD/SSD Flash Component for Windows (x64) - MM1000JFJTH Drive	cp045564.exe	MM1000JFJTH	HPD3 (E)	HPD3	更新
1320	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp045565.exe	MO000400JWFVN	HPD5 (D)	HPD5	更新
1321	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp045565.exe	MO000800JWFVP	HPD5 (D)	HPD5	更新
1322	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp045565.exe	MO001600JWFVQ	HPD5 (D)	HPD5	更新
1323	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp045565.exe	MO003200JWFVR	HPD5 (D)	HPD5	更新
1324	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp045565.exe	MO000960JWFVT	HPD5 (D)	HPD5	更新
1325	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVV Drives	cp045565.exe	MO001920JWFVU	HPD5 (D)	HPD5	更新
1326	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT,	cp045565.exe	MO003840JWFVV	HPD5 (D)	HPD5	更新

	MO001920JWFWU and MO003840JWFWV Drives					
1327	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp045156.exe	MO000400JWUFT	HPD3 (B)	HPD3	更新
1328	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp045156.exe	MO000800JWUFU	HPD3 (B)	HPD3	更新
1329	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp045156.exe	MO001600JWUFV	HPD3 (B)	HPD3	更新
1330	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp045156.exe	MO003200JWUGA	HPD3 (B)	HPD3	更新
1331	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp045156.exe	MO006400JWUGB	HPD3 (B)	HPD3	更新
1332	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp045156.exe	EO000400JWUGC	HPD3 (B)	HPD3	更新
1333	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU,	cp045156.exe	EO000800JWUGD	HPD3 (B)	HPD3	更新

	MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives					
1334	Online HDD/SSD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives	cp045156.exe	EO001600JWUGE	HPD3 (B)	HPD3	更新
1335	Online HDD/SSD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPP Drives	cp045566.exe	EO0800JEFPP	HPD3 (F)	HPD3	更新
1336	Online HDD/SSD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPP Drives	cp045566.exe	EO0400JEFPE	HPD3 (F)	HPD3	更新
1337	Online HDD/SSD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPP Drives	cp045566.exe	EO0200JEFPD	HPD3 (F)	HPD3	更新
1338	Online HDD/SSD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPP Drives	cp045566.exe	MO1600JEFPC	HPD3 (F)	HPD3	更新
1339	Online HDD/SSD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPP Drives	cp045566.exe	MO0800JEFPB	HPD3 (F)	HPD3	更新
1340	Online HDD/SSD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPP Drives	cp045566.exe	MO0400JEFPA	HPD3 (F)	HPD3	更新
1341	Online HDD/SSD Flash Component for Windows	cp045566.exe	MO0200JEFNV	HPD3 (F)	HPD3	更新

	(x64) - MO0200JEFNV, MO0400JEFPA, MO0800JEFPB, MO1600JEFPC, EO0200JEFPD, EO0400JEFPE and EO0800JEFPF Drives					
1342	Online HDD/SSD Flash Component for Windows (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	cp045596.exe	MO0400JFFCF	HPD9 (C)	HPD9	更新
1343	Online HDD/SSD Flash Component for Windows (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	cp045596.exe	MO0800JFFCH	HPD9 (C)	HPD9	更新
1344	Online HDD/SSD Flash Component for Windows (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	cp045596.exe	MO1600JFFCK	HPD9 (C)	HPD9	更新
1345	Online HDD/SSD Flash Component for Windows (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives	cp045596.exe	MO3200JFFCL	HPD9 (C)	HPD9	更新
1346	Online HDD/SSD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	cp045600.exe	VK000960JWSSQ	HPD8 (C)	HPD8	更新
1347	Online HDD/SSD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	cp045600.exe	VK001920JWSSR	HPD8 (C)	HPD8	更新
1348	Online HDD/SSD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	cp045600.exe	VK003840JWSST	HPD8 (C)	HPD8	更新
1349	Online HDD/SSD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	cp045600.exe	VK007680JWSSU	HPD8 (C)	HPD8	更新
1350	Online HDD/SSD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives	cp045600.exe	VO015300JWSSV	HPD8 (C)	HPD8	更新
1351	Online HDD/SSD Flash	cp044648.exe	VO000480JWDAR	HPD8 (C)	HPD8	更新

	Component for Windows (x64) - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives					
1352	Online HDD/SSD Flash Component for Windows (x64) - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	cp044648.exe	VO000960JWDAT	HPD8 (C)	HPD8	更新
1353	Online HDD/SSD Flash Component for Windows (x64) - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	cp044648.exe	VO001920JWDAU	HPD8 (C)	HPD8	更新
1354	Online HDD/SSD Flash Component for Windows (x64) - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives	cp044648.exe	VO003840JWDAV	HPD8 (C)	HPD8	更新
1355	Online HDD/SSD Flash Component for Windows (x64) - VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	cp046322.exe	VO000800JWZJP	HPD4	HPD4	新規追加
1356	Online HDD/SSD Flash Component for Windows (x64) - VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	cp046322.exe	VO001600JWZJQ	HPD4	HPD4	新規追加
1357	Online HDD/SSD Flash Component for Windows (x64) - VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	cp046322.exe	VO003200JWZJR	HPD4	HPD4	新規追加
1358	Online HDD/SSD Flash Component for Windows (x64) - VO000800JWZJP, VO001600JWZJQ, VO003200JWZJR and VO006400JWZJT Drives	cp046322.exe	VO006400JWZJT	HPD4	HPD4	新規追加
1359	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTKV, EO000800JWTKA and EO001600JWTKC Drives	cp045576.exe	VO000960JWTKB	HPD7 (D)	HPD7	更新
1360	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN,	cp045576.exe	VO001920JWTKL	HPD7 (D)	HPD7	更新

	VO007680JWTPB, MO000400JWTBQ, MO000800JWTRB, MO001600JWTRT, MO003200JWTRU, MO006400JWTRD, EO000400JWTRV, EO000800JWTRC and EO001600JWTRB Drives					
1361	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWTRK, VO001920JWTRL, VO003840JWTRN, VO007680JWTRP, MO000400JWTRQ, MO000800JWTRR, MO001600JWTRT, MO003200JWTRU, MO006400JWTRD, EO000400JWTRV, EO000800JWTRC and EO001600JWTRB Drives	cp045576.exe	VO003840JWTRN	HPD7 (D)	HPD7	更新
1362	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWTRK, VO001920JWTRL, VO003840JWTRN, VO007680JWTRP, MO000400JWTRQ, MO000800JWTRR, MO001600JWTRT, MO003200JWTRU, MO006400JWTRD, EO000400JWTRV, EO000800JWTRC and EO001600JWTRB Drives	cp045576.exe	VO007680JWTRP	HPD7 (D)	HPD7	更新
1363	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWTRK, VO001920JWTRL, VO003840JWTRN, VO007680JWTRP, MO000400JWTRQ, MO000800JWTRR, MO001600JWTRT, MO003200JWTRU, MO006400JWTRD, EO000400JWTRV, EO000800JWTRC and EO001600JWTRB Drives	cp045576.exe	MO000400JWTRQ	HPD7 (D)	HPD7	更新
1364	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWTRK, VO001920JWTRL, VO003840JWTRN, VO007680JWTRP, MO000400JWTRQ, MO000800JWTRR, MO001600JWTRT, MO003200JWTRU, MO006400JWTRD, EO000400JWTRV, EO000800JWTRC and EO001600JWTRB Drives	cp045576.exe	MO000800JWTRR	HPD7 (D)	HPD7	更新
1365	Online HDD/SSD Flash	cp045576.exe	MO001600JWTRT	HPD7 (D)	HPD7	更新

	Component for Windows (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA and EO001600JWTLCB Drives					
1366	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA and EO001600JWTLCB Drives	cp045576.exe	MO003200JWTLBU	HPD7 (D)	HPD7	更新
1367	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA and EO001600JWTLCB Drives	cp045576.exe	MO006400JWTLCD	HPD7 (D)	HPD7	更新
1368	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD, EO000400JWTLBV, EO000800JWTLCA and EO001600JWTLCB Drives	cp045576.exe	EO000400JWTLBV	HPD7 (D)	HPD7	更新
1369	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWBK, VO001920JWTL, VO003840JWTLN, VO007680JWTLBP, MO000400JWTLBQ, MO000800JWTLBR, MO001600JWTLBT, MO003200JWTLBU, MO006400JWTLCD,	cp045576.exe	EO000800JWTLCA	HPD7 (D)	HPD7	更新

	EO000400JWTVB, EO000800JWTCB and EO001600JWTCB Drives					
1370	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTVB, EO000800JWTCB and EO001600JWTCB Drives	cp045576.exe	EO001600JWTKB	HPD7 (D)	HPD7	更新
1371	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTVB, EO000800JWTCB and EO001600JWTCB Drives	cp045576.exe	EO003200JWTKC	HPD7 (D)	HPD7	更新
1372	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWTKB, VO001920JWTKL, VO003840JWTKN, VO007680JWTKP, MO000400JWTKQ, MO000800JWTKR, MO001600JWTKT, MO003200JWTKU, MO006400JWTKD, EO000400JWTVB, EO000800JWTCB and EO001600JWTCB Drives	cp045576.exe	MO001920JWW WV	HPD7 (D)	HPD7	更新
1373	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	cp046320.exe	VO000960JWZJF	HPD4	HPD4	新規追加
1374	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	cp046320.exe	VO001920JWZJH	HPD4	HPD4	新規追加
1375	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	cp046320.exe	VO003840JWZJK	HPD4	HPD4	新規追加

1376	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	cp046320.exe	VO007680JWZJL	HPD4	HPD4	新規追加
1377	Online HDD/SSD Flash Component for Windows (x64) - VO000960JWZJF, VO001920JWZJH, VO003840JWZJK, VO007680JWZJL and VO015360JWZJN Drives	cp046320.exe	VO015360JWZJN	HPD4	HPD4	新規追加
1378	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp045603.exe	VO000960RWUEV	HPD3 (C)	HPD3	更新
1379	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp045603.exe	VO001920RWUFA	HPD3 (C)	HPD3	更新
1380	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp045603.exe	VO003840RWUFB	HPD3 (C)	HPD3	更新
1381	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp045603.exe	VO007680RWUFC	HPD3 (C)	HPD3	更新
1382	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp045603.exe	VO000960RWUFD	HPD3 (C)	HPD3	更新
1383	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD,	cp045603.exe	VO001920RWUFE	HPD3 (C)	HPD3	更新

	VO001920RWUFE and VO003840RWUFF Drives					
1384	Online HDD/SSD Flash Component for Windows (x64) - VO000960RWUEV, VO001920RWUFA, VO003840RWUFB, VO007680RWUFC, VO000960RWUFD, VO001920RWUFE and VO003840RWUFF Drives	cp045603.exe	VO003840RWUFF	HPD3 (C)	HPD3	更新
1385	Online HDD/SSD Flash Component for Windows (x64) - VO007680JWCNK and VO015300JWCNL Drives	cp045578.exe	VO007680JWCNK	HPD8 (C)	HPD8	更新
1386	Online HDD/SSD Flash Component for Windows (x64) - VO007680JWCNK and VO015300JWCNL Drives	cp045578.exe	VO015300JWCNL	HPD8 (C)	HPD8	更新
1387	Online HDD/SSD Flash Component for Windows (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	cp045594.exe	VO0480JFDGT	HPD9 (C)	HPD9	更新
1388	Online HDD/SSD Flash Component for Windows (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	cp045594.exe	VO0960JFDGU	HPD9 (C)	HPD9	更新
1389	Online HDD/SSD Flash Component for Windows (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	cp045594.exe	VO1920JFDGV	HPD9 (C)	HPD9	更新
1390	Online HDD/SSD Flash Component for Windows (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives	cp045594.exe	VO3840JFDHA	HPD9 (C)	HPD9	更新
1391	Online HDD/SSD Flash Component for Windows (x64) - VO1920JEUQQ Drive	cp045580.exe	VO1920JEUQQ	HPD3 (F)	HPD3	更新

6.2.16 Firmware - SATA Storage Disk

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1392	Online HDD/SSD Flash Component for Linux (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPF and EK001600GWEPH Drives	firmware-hdd-5bf9355926-HPG3-6.1.x86_64.rpm	EK000200GWEPD	HPG3 (F)	HPG3	更新
1393	Online HDD/SSD Flash Component for Linux (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPF and EK001600GWEPH Drives	firmware-hdd-5bf9355926-HPG3-6.1.x86_64.rpm	EK000400GWEPE	HPG3 (F)	HPG3	更新

1394	Online HDD/SSD Flash Component for Linux (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPPH Drives	firmware-hdd-5bf9355926-HPG3-6.1.x86_64.rpm	EK000800GWEPP	HPG3 (F)	HPG3	更新
1395	Online HDD/SSD Flash Component for Linux (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPPH Drives	firmware-hdd-5bf9355926-HPG3-6.1.x86_64.rpm	EK001600GWEPPH	HPG3 (F)	HPG3	更新
1396	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWCBC and MB002000GWCBD Drives	firmware-hdd-68b12e54d2-HPG6-5.1.x86_64.rpm	MB001000GWCBC	HPG6 (E)	HPG6	更新
1397	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWCBC and MB002000GWCBD Drives	firmware-hdd-68b12e54d2-HPG6-5.1.x86_64.rpm	MB002000GWCBD	HPG6 (E)	HPG6	更新
1398	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWFVK and MB002000GWFVL Drives	firmware-hdd-bfc4af697b-HPG6-4.1.x86_64.rpm	MB001000GWFVK	HPG6 (D)	HPG6	更新
1399	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWFVK and MB002000GWFVL Drives	firmware-hdd-bfc4af697b-HPG6-4.1.x86_64.rpm	MB002000GWFVL	HPG6 (D)	HPG6	更新
1400	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFVA and MB004000GWFVB Drives	firmware-hdd-d39e7a7e75-HPG1-5.1.x86_64.rpm	MB001000GWJAN	HPG1 (E)	HPG1	更新
1401	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFVA and MB004000GWFVB Drives	firmware-hdd-d39e7a7e75-HPG1-5.1.x86_64.rpm	MB002000GWFVA	HPG1 (E)	HPG1	更新
1402	Online HDD/SSD Flash Component for Linux (x64) - MB001000GWJAN, MB002000GWFVA and MB004000GWFVB Drives	firmware-hdd-d39e7a7e75-HPG1-5.1.x86_64.rpm	MB004000GWFVB	HPG1 (E)	HPG1	更新
1403	Online HDD/SSD Flash Component for Linux (x64) - MB002000GWFGH and MB001000GWFGF Drives	firmware-hdd-0b575b5895-HPG3-7.1.x86_64.rpm	MB002000GWFGH	HPG3 (G)	HPG3	更新
1404	Online HDD/SSD Flash Component for Linux (x64) - MB002000GWFGH and MB001000GWFGF Drives	firmware-hdd-0b575b5895-HPG3-7.1.x86_64.rpm	MB001000GWFGF	HPG3 (G)	HPG3	更新
1405	Online HDD/SSD Flash Component for Linux (x64) - MB004000GWKGV Drive	firmware-hdd-ca21e169e2-HPG1-4.1.x86_64.rpm	MB004000GWKGV	HPG1 (D)	HPG1	更新
1406	Online HDD/SSD Flash Component for Linux (x64) - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives	firmware-hdd-12304c1aca-HPG3-2.1.x86_64.rpm	MB004000GWWQH	HPG3 (B)	HPG3	更新
1407	Online HDD/SSD Flash Component for Linux (x64) - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives	firmware-hdd-12304c1aca-HPG3-2.1.x86_64.rpm	MB002000GWWQF	HPG3 (B)	HPG3	更新
1408	Online HDD/SSD Flash Component for Linux (x64) -	firmware-hdd-12304c1aca-HPG3-2.1.x86_64.rpm	MB001000GWWQE	HPG3 (B)	HPG3	更新

	MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives	m				
1409	Online HDD/SSD Flash Component for Linux (x64) - MB006000GWBXQ and MB008000GWBXL Drives	firmware-hdd-a1fd19f9 ca-HPG8-5.1.x86_64.rp m	MB006000GWBX Q	HPG8 (E)	HPG8	更新
1410	Online HDD/SSD Flash Component for Linux (x64) - MB006000GWBXQ and MB008000GWBXL Drives	firmware-hdd-a1fd19f9 ca-HPG8-5.1.x86_64.rp m	MB008000GWBXL	HPG8 (E)	HPG8	更新
1411	Online HDD/SSD Flash Component for Linux (x64) - MB006000GWJRR and MB008000GWJRT Drives	firmware-hdd-c993b31 232-HPG4-3.1.x86_64.r pm	MB006000GWJRR	HPG4 (C)	HPG4	更新
1412	Online HDD/SSD Flash Component for Linux (x64) - MB006000GWJRR and MB008000GWJRT Drives	firmware-hdd-c993b31 232-HPG4-3.1.x86_64.r pm	MB008000GWJRT	HPG4 (C)	HPG4	更新
1413	Online HDD/SSD Flash Component for Linux (x64) - MB006000GWKGR Drive	firmware-hdd-7f2a26e6 d0-HPG1-4.1.x86_64.rp m	MB006000GWKGR	HPG1 (D)	HPG1	更新
1414	Online HDD/SSD Flash Component for Linux (x64) - MB008000GWRTC Drive	firmware-hdd-82894b9 e0a-HPG1-4.1.x86_64.r pm	MB008000GWRTC	HPG1 (D)	HPG1	更新
1415	Online HDD/SSD Flash Component for Linux (x64) - MB008000GWWQU and MB006000GWWQT Drives	firmware-hdd-18e328f0 36-HPG2-3.1.x86_64.rp m	MB008000GWW QU	HPG2 (C)	HPG2	更新
1416	Online HDD/SSD Flash Component for Linux (x64) - MB008000GWWQU and MB006000GWWQT Drives	firmware-hdd-18e328f0 36-HPG2-3.1.x86_64.rp m	MB006000GWW QT	HPG2 (C)	HPG2	更新
1417	Online HDD/SSD Flash Component for Linux (x64) - MB010000GWAYN and MB008000GWAYL Drives	firmware-hdd-cc819d4b ff-HPG5-6.1.x86_64.rp m	MB010000GWAY N	HPG5 (F)	HPG5	更新
1418	Online HDD/SSD Flash Component for Linux (x64) - MB010000GWAYN and MB008000GWAYL Drives	firmware-hdd-cc819d4b ff-HPG5-6.1.x86_64.rp m	MB008000GWAYL	HPG5 (F)	HPG5	更新
1419	Online HDD/SSD Flash Component for Linux (x64) - MB012000GWDFE Drive	firmware-hdd-059b865 4a6-HPG2-6.1.x86_64.r pm	MB012000GWDF E	HPG2 (F)	HPG2	更新
1420	Online HDD/SSD Flash Component for Linux (x64) - MB012000GWTFE and MB014000GWTFE Drives	firmware-hdd-b78255e 146-HPG7-2.1.x86_64.r pm	MB012000GWTFE	HPG7 (B)	HPG7	更新
1421	Online HDD/SSD Flash Component for Linux (x64) - MB012000GWTFE and MB014000GWTFE Drives	firmware-hdd-b78255e 146-HPG7-2.1.x86_64.r pm	MB014000GWTFE	HPG7 (B)	HPG7	更新
1422	Online HDD/SSD Flash Component for Linux (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	firmware-hdd-6b7ce3d a0e-HPG2-5.1.x86_64.r pm	MB014000GWRT N	HPG2 (E)	HPG2	更新
1423	Online HDD/SSD Flash Component for Linux (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	firmware-hdd-6b7ce3d a0e-HPG2-5.1.x86_64.r pm	MB012000GWRTL	HPG2 (E)	HPG2	更新
1424	Online HDD/SSD Flash Component for Linux (x64) - MB014000GWRTN, MB012000GWRTL and	firmware-hdd-6b7ce3d a0e-HPG2-5.1.x86_64.r pm	MB010000GWRT K	HPG2 (E)	HPG2	更新

	MB010000GWRK Drives					
1425	Online HDD/SSD Flash Component for Linux (x64) - MB014000GWUDA Drive	firmware-hdd-41c9b1c9da-HPG2-4.1.x86_64.rpm	MB014000GWUD A	HPG2 (D)	HPG2	更新
1426	Online HDD/SSD Flash Component for Linux (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	firmware-hdd-3ab4c70e64-HPG4-9.1.x86_64.rpm	MB1000GDUNU	HPG4 (I)	HPG4	更新
1427	Online HDD/SSD Flash Component for Linux (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	firmware-hdd-3ab4c70e64-HPG4-9.1.x86_64.rpm	MB2000GDUNV	HPG4 (I)	HPG4	更新
1428	Online HDD/SSD Flash Component for Linux (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	firmware-hdd-3ab4c70e64-HPG4-9.1.x86_64.rpm	MB3000GDUPA	HPG4 (I)	HPG4	更新
1429	Online HDD/SSD Flash Component for Linux (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	firmware-hdd-3ab4c70e64-HPG4-9.1.x86_64.rpm	MB4000GDUPB	HPG4 (I)	HPG4	更新
1430	Online HDD/SSD Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	firmware-hdd-0a7010918e-HPG4-9.1.x86_64.rpm	MB1000GVYZE	HPG4 (I)	HPG4	更新
1431	Online HDD/SSD Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	firmware-hdd-0a7010918e-HPG4-9.1.x86_64.rpm	MB2000GVYZF	HPG4 (I)	HPG4	更新
1432	Online HDD/SSD Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	firmware-hdd-0a7010918e-HPG4-9.1.x86_64.rpm	MB3000GVYZH	HPG4 (I)	HPG4	更新
1433	Online HDD/SSD Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	firmware-hdd-0a7010918e-HPG4-9.1.x86_64.rpm	MB4000GVYZK	HPG4 (I)	HPG4	更新
1434	Online HDD/SSD Flash Component for Linux (x64) - MB2000GCWLT, MB3000GCWLU and MB4000GCWLV Drives	firmware-hdd-2e70ce7412-HPG4-9.1.x86_64.rpm	MB2000GCWLT	HPG4 (I)	HPG4	更新
1435	Online HDD/SSD Flash Component for Linux (x64) - MB2000GCWLT, MB3000GCWLU and MB4000GCWLV Drives	firmware-hdd-2e70ce7412-HPG4-9.1.x86_64.rpm	MB3000GCWLU	HPG4 (I)	HPG4	更新
1436	Online HDD/SSD Flash Component for Linux (x64) - MB2000GCWLT, MB3000GCWLU and	firmware-hdd-2e70ce7412-HPG4-9.1.x86_64.rpm	MB4000GCWLV	HPG4 (I)	HPG4	更新

	MB4000GCWLV Drives					
1437	Online HDD/SSD Flash Component for Linux (x64) - MB2000GFEMH and MB4000GFEMK Drives	firmware-hdd-70e3962f98-HPG6-8.1.x86_64.rpm	MB2000GFEMH	HPG6 (H)	HPG6	更新
1438	Online HDD/SSD Flash Component for Linux (x64) - MB2000GFEMH and MB4000GFEMK Drives	firmware-hdd-70e3962f98-HPG6-8.1.x86_64.rpm	MB4000GFEMK	HPG6 (H)	HPG6	更新
1439	Online HDD/SSD Flash Component for Linux (x64) - MB4000GEFNA and MB6000GEFNB Drives	firmware-hdd-40277d55d3-HPG6-9.1.x86_64.rpm	MB4000GEFNA	HPG6 (I)	HPG6	更新
1440	Online HDD/SSD Flash Component for Linux (x64) - MB4000GEFNA and MB6000GEFNB Drives	firmware-hdd-40277d55d3-HPG6-9.1.x86_64.rpm	MB6000GEFNB	HPG6 (I)	HPG6	更新
1441	Online HDD/SSD Flash Component for Linux (x64) - MB4000GEQNH and MB6000GEQNK Drives	firmware-hdd-bfc95f0628-HPGB-8.1.x86_64.rpm	MB4000GEQNH	HPGB (H)	HPGB	更新
1442	Online HDD/SSD Flash Component for Linux (x64) - MB4000GEQNH and MB6000GEQNK Drives	firmware-hdd-bfc95f0628-HPGB-8.1.x86_64.rpm	MB6000GEQNK	HPGB (H)	HPGB	更新
1443	Online HDD/SSD Flash Component for Linux (x64) - MB6000GEBTP Drive	firmware-hdd-3243fce9a0-HPG4-8.1.x86_64.rpm	MB6000GEBTP	HPG4 (H)	HPG4	更新
1444	Online HDD/SSD Flash Component for Linux (x64) - MB6000GEQUT and MB8000GEQUU Drives	firmware-hdd-1d7f19120b-HPGB-8.1.x86_64.rpm	MB6000GEQUT	HPGB (H)	HPGB	更新
1445	Online HDD/SSD Flash Component for Linux (x64) - MB6000GEQUT and MB8000GEQUU Drives	firmware-hdd-1d7f19120b-HPGB-8.1.x86_64.rpm	MB8000GEQUU	HPGB (H)	HPGB	更新
1446	Online HDD/SSD Flash Component for Linux (x64) - MB6000GEXXV Drive	firmware-hdd-a629fcea59-HPG2-9.1.x86_64.rpm	MB6000GEXXV	HPG2 (I)	HPG2	更新
1447	Online HDD/SSD Flash Component for Linux (x64) - MB6000GVYYU Drive	firmware-hdd-bdc37cb37f-HPG2-8.1.x86_64.rpm	MB6000GVYYU	HPG2 (H)	HPG2	更新
1448	Online HDD/SSD Flash Component for Linux (x64) - MB6000GVYZB and MB4000GVYZA Drives	firmware-hdd-0a7d4aa47f-HPG4-5.1.x86_64.rpm	MB6000GVYZB	HPG4 (E)	HPG4	更新
1449	Online HDD/SSD Flash Component for Linux (x64) - MB6000GVYZB and MB4000GVYZA Drives	firmware-hdd-0a7d4aa47f-HPG4-5.1.x86_64.rpm	MB4000GVYZA	HPG4 (E)	HPG4	更新
1450	Online HDD/SSD Flash Component for Linux (x64) - MB8000GFECR Drive	firmware-hdd-6d922fc9a8-HPG6-5.1.x86_64.rpm	MB8000GFECR	HPG6 (E)	HPG6	更新
1451	Online HDD/SSD Flash Component for Linux (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	firmware-hdd-7677644a25-HPG3-6.1.x86_64.rpm	MK000240GWCEU	HPG3 (F)	HPG3	更新
1452	Online HDD/SSD Flash Component for Linux (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	firmware-hdd-7677644a25-HPG3-6.1.x86_64.rpm	MK000480GWCEV	HPG3 (F)	HPG3	更新
1453	Online HDD/SSD Flash	firmware-hdd-7677644	MK000960GWCFA	HPG3 (F)	HPG3	更新

	Component for Linux (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	a25-HPG3-6.1.x86_64.rpm				
1454	Online HDD/SSD Flash Component for Linux (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	firmware-hdd-7677644 a25-HPG3-6.1.x86_64.rpm	MK001920GWCFB	HPG3 (F)	HPG3	更新
1455	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	firmware-hdd-f693ccc1 38-HPG3-2.1.x86_64.rpm	MK000480GWSSC	HPG3 (B)	HPG3	更新
1456	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	firmware-hdd-f693ccc1 38-HPG3-2.1.x86_64.rpm	MK000960GWSSD	HPG3 (B)	HPG3	更新
1457	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	firmware-hdd-f693ccc1 38-HPG3-2.1.x86_64.rpm	MK001920GWSSE	HPG3 (B)	HPG3	更新
1458	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	firmware-hdd-f693ccc1 38-HPG3-2.1.x86_64.rpm	MK003840GWSSF	HPG3 (B)	HPG3	更新
1459	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	firmware-hdd-8e1e808 3c5-HPG1-3.1.x86_64.rpm	MK000480GWXFF	HPG1 (C)	HPG1	更新
1460	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	firmware-hdd-8e1e808 3c5-HPG1-3.1.x86_64.rpm	MK000960GWXFH	HPG1 (C)	HPG1	更新
1461	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	firmware-hdd-8e1e808 3c5-HPG1-3.1.x86_64.rpm	MK001920GWXFK	HPG1 (C)	HPG1	更新
1462	Online HDD/SSD Flash Component for Linux (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	firmware-hdd-8e1e808 3c5-HPG1-3.1.x86_64.rpm	MK003840GWXFL	HPG1 (C)	HPG1	更新
1463	Online HDD/SSD Flash Component for Linux (x64) - MK003840GWHT Drive	firmware-hdd-ac20a1e1 c6-HPG6-4.1.x86_64.rpm	MK003840GWHT E	HPG6 (D)	HPG6	更新
1464	Online HDD/SSD Flash Component for Linux (x64) - MK0960GECQK Drive	firmware-hdd-3e34285 be7-HPG3-10.1.x86_64.rpm	MK0960GECQK	HPG3 (J)	HPG3	更新
1465	Online HDD/SSD Flash	firmware-hdd-ec908c36	MM1000GEFQV	HPG8 (G)	HPG8	更新

	Component for Linux (x64) - MM1000GEFQV and MM2000GEFRA Drives	50-HPG8-7.1.x86_64.rpm				
1466	Online HDD/SSD Flash Component for Linux (x64) - MM1000GEFQV and MM2000GEFRA Drives	firmware-hdd-ec908c3650-HPG8-7.1.x86_64.rpm	MM2000GEFRA	HPG8 (G)	HPG8	更新
1467	Online HDD/SSD Flash Component for Linux (x64) - MM1000GFJTE Drive	firmware-hdd-95af9a555e-HPG5-5.1.x86_64.rpm	MM1000GFJTE	HPG5 (E)	HPG5	更新
1468	Online HDD/SSD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-4.1.x86_64.rpm	MR000240GWFLU	HPGE (D)	HPGE	更新
1469	Online HDD/SSD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-4.1.x86_64.rpm	MR000480GWFLV	HPGE (D)	HPGE	更新
1470	Online HDD/SSD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-4.1.x86_64.rpm	VR000480GWFMD	HPGE (D)	HPGE	更新
1471	Online HDD/SSD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-4.1.x86_64.rpm	MR000960GWFMA	HPGE (D)	HPGE	更新
1472	Online HDD/SSD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-4.1.x86_64.rpm	VR000960GWFME	HPGE (D)	HPGE	更新
1473	Online HDD/SSD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	firmware-hdd-9196d4f720-HPGE-4.1.x86_64.rpm	MR001920GWFMB	HPGE (D)	HPGE	更新
1474	Online HDD/SSD Flash Component for Linux (x64) -	firmware-hdd-9196d4f720-HPGE-4.1.x86_64.rpm	VR001920GWFMC	HPGE (D)	HPGE	更新

	MR000240GWFLU, MR000480GWFLV, VR000480GWFM D, MR000960GWFMA, VR000960GWFME, MR001920GWFM B and VR001920GWFM C Drives	m				
1475	Online HDD/SSD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	firmware-hdd-6e3845d ef5-HPG1-5.1.x86_64.rp m	VK000150GWCNN	HPG1 (E)	HPG1	更新
1476	Online HDD/SSD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	firmware-hdd-6e3845d ef5-HPG1-5.1.x86_64.rp m	VK000240GWCNP	HPG1 (E)	HPG1	更新
1477	Online HDD/SSD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	firmware-hdd-6e3845d ef5-HPG1-5.1.x86_64.rp m	VK000480GWCN Q	HPG1 (E)	HPG1	更新
1478	Online HDD/SSD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	firmware-hdd-6e3845d ef5-HPG1-5.1.x86_64.rp m	VK000960GWCNR	HPG1 (E)	HPG1	更新
1479	Online HDD/SSD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	firmware-hdd-6e3845d ef5-HPG1-5.1.x86_64.rp m	VK001600GWCNT	HPG1 (E)	HPG1	更新
1480	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	firmware-hdd-f42438de 3d-HPG3-6.1.x86_64.rp m	VK000480GWCFE	HPG3 (F)	HPG3	更新
1481	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	firmware-hdd-f42438de 3d-HPG3-6.1.x86_64.rp m	VK000960GWCFE	HPG3 (F)	HPG3	更新
1482	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	firmware-hdd-f42438de 3d-HPG3-6.1.x86_64.rp m	VK000240GWCFD	HPG3 (F)	HPG3	更新
1483	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWCFD,	firmware-hdd-f42438de 3d-HPG3-6.1.x86_64.rp m	VK001920GWCFH	HPG3 (F)	HPG3	更新

	VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives					
1484	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	firmware-hdd-f42438de3d-HPG3-6.1.x86_64.rpm	VK003840GWCFK	HPG3 (F)	HPG3	更新
1485	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-5.1.x86_64.rpm	VK000240GWEZB	HPGE (E)	HPGE	更新
1486	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-5.1.x86_64.rpm	VK000480GWEZC	HPGE (E)	HPGE	更新
1487	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-5.1.x86_64.rpm	VK000960GWEZD	HPGE (E)	HPGE	更新
1488	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-5.1.x86_64.rpm	VK001920GWEZE	HPGE (E)	HPGE	更新
1489	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640485-HPGE-5.1.x86_64.rpm	MK000240GWEZF	HPGE (E)	HPGE	更新
1490	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD,	firmware-hdd-3db7640485-HPGE-5.1.x86_64.rpm	MK000480GWEZH	HPGE (E)	HPGE	更新

	VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives					
1491	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640 485-HPGE-5.1.x86_64.r pm	MK000960GWEZK	HPGE (E)	HPGE	更新
1492	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	firmware-hdd-3db7640 485-HPGE-5.1.x86_64.r pm	MK001920GWHR U	HPGE (E)	HPGE	更新
1493	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690 c9-HPG5-5.1.x86_64.rp m	MK000240GWKV K	HPG5 (E)	HPG5	更新
1494	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690 c9-HPG5-5.1.x86_64.rp m	MK000480GWJPN	HPG5 (E)	HPG5	更新
1495	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	firmware-hdd-aef2a690 c9-HPG5-5.1.x86_64.rp m	MK000960GWJPP	HPG5 (E)	HPG5	更新
1496	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK,	firmware-hdd-aef2a690 c9-HPG5-5.1.x86_64.rp m	MK001920GWJPPQ	HPG5 (E)	HPG5	更新

	MK000480GWJPN, MK000960GWJPP and MK001920GWJJPQ Drives					
1497	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJJPQ Drives	firmware-hdd-aef2a690 c9-HPG5-5.1.x86_64.rp m	VK000240GWJPD	HPG5 (E)	HPG5	更新
1498	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJJPQ Drives	firmware-hdd-aef2a690 c9-HPG5-5.1.x86_64.rp m	VK000480GWJPE	HPG5 (E)	HPG5	更新
1499	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJJPQ Drives	firmware-hdd-aef2a690 c9-HPG5-5.1.x86_64.rp m	VK000960GWJPF	HPG5 (E)	HPG5	更新
1500	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJJPQ Drives	firmware-hdd-aef2a690 c9-HPG5-5.1.x86_64.rp m	VK001920GWJPH	HPG5 (E)	HPG5	更新
1501	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJJPQ Drives	firmware-hdd-aef2a690 c9-HPG5-5.1.x86_64.rp m	VK003840GWJPK	HPG5 (E)	HPG5	更新
1502	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db68796 6b4-HPG4-2.1.x86_64.r pm	VK000240GWSRQ	HPG4 (B)	HPG4	更新
1503	Online HDD/SSD Flash	firmware-hdd-db68796	VK000480GWSRR	HPG4 (B)	HPG4	更新

	Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	6b4-HPG4-2.1.x86_64.rpm				
1504	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG4-2.1.x86_64.rpm	VK000960GWSRT	HPG4 (B)	HPG4	更新
1505	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG4-2.1.x86_64.rpm	VK001920GWSRU	HPG4 (B)	HPG4	更新
1506	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	firmware-hdd-db687966b4-HPG4-2.1.x86_64.rpm	VK003840GWSRV	HPG4 (B)	HPG4	更新
1507	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTT, MK001920GWTTT and MK003840GWTTT Drives	firmware-hdd-c566d63ca0-HPG6-2.1.x86_64.rpm	VK000240GWTSV	HPG6 (B)	HPG6	更新
1508	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTT, MK001920GWTTT and MK003840GWTTT Drives	firmware-hdd-c566d63ca0-HPG6-2.1.x86_64.rpm	VK000480GWTTA	HPG6 (B)	HPG6	更新
1509	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTT, MK001920GWTTT and MK003840GWTTT Drives	firmware-hdd-c566d63ca0-HPG6-2.1.x86_64.rpm	VK000960GWTTB	HPG6 (B)	HPG6	更新
1510	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT,	firmware-hdd-c566d63ca0-HPG6-2.1.x86_64.rpm	VK001920GWTTT	HPG6 (B)	HPG6	更新

	VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives					
1511	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63c a0-HPG6-2.1.x86_64.rp m	VK003840GWTTD	HPG6 (B)	HPG6	更新
1512	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63c a0-HPG6-2.1.x86_64.rp m	MK000480GWTT H	HPG6 (B)	HPG6	更新
1513	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63c a0-HPG6-2.1.x86_64.rp m	MK000960GWTTK	HPG6 (B)	HPG6	更新
1514	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63c a0-HPG6-2.1.x86_64.rp m	MK001920GWTTL	HPG6 (B)	HPG6	更新
1515	Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	firmware-hdd-c566d63c a0-HPG6-2.1.x86_64.rp m	MK003840GWTT N	HPG6 (B)	HPG6	更新
1516	Online HDD/SSD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF,	firmware-hdd-9e87eec b3f-HPG2-5.1.x86_64.r pm	VK000480GWSXF	HPG2 (E)	HPG2	更新

	MK000960GWUGH and MK001920GWUGK Drives					
1517	Online HDD/SSD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	firmware-hdd-9e87eec b3f-HPG2-5.1.x86_64.rpm	VK000960GWSXH	HPG2 (E)	HPG2	更新
1518	Online HDD/SSD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	firmware-hdd-9e87eec b3f-HPG2-5.1.x86_64.rpm	VK001920GWSXK	HPG2 (E)	HPG2	更新
1519	Online HDD/SSD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	firmware-hdd-9e87eec b3f-HPG2-5.1.x86_64.rpm	MK000480GWUG F	HPG2 (E)	HPG2	更新
1520	Online HDD/SSD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	firmware-hdd-9e87eec b3f-HPG2-5.1.x86_64.rpm	MK000960GWUG H	HPG2 (E)	HPG2	更新
1521	Online HDD/SSD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	firmware-hdd-9e87eec b3f-HPG2-5.1.x86_64.rpm	MK001920GWUG K	HPG2 (E)	HPG2	更新
1522	Online HDD/SSD Flash Component for Linux (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	firmware-hdd-492a995 2f6-HPG2-1.1.x86_64.rpm	VK000480GWTHA	HPG2	HPG2	更新
1523	Online HDD/SSD Flash Component for Linux (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	firmware-hdd-492a995 2f6-HPG2-1.1.x86_64.rpm	VK000960GWTHB	HPG2	HPG2	更新
1524	Online HDD/SSD Flash Component for Linux (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	firmware-hdd-492a995 2f6-HPG2-1.1.x86_64.rpm	VK001920GWTHC	HPG2	HPG2	更新
1525	Online HDD/SSD Flash Component for Linux (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	firmware-hdd-492a995 2f6-HPG2-1.1.x86_64.rpm	VK003840GWTHD	HPG2	HPG2	更新

1526	Online HDD/SSD Flash Component for Linux (x64) - VK003840GWSXL Drive	firmware-hdd-d1cf327bc4-HPG2-5.1.x86_64.rpm	VK003840GWSXL	HPG2 (E)	HPG2	更新
1527	Online HDD/SSD Flash Component for Linux (x64) - VK007680GWSXN Drive	firmware-hdd-b460823f70-HPG2-5.1.x86_64.rpm	VK007680GWSXN	HPG2 (E)	HPG2	更新
1528	Online HDD/SSD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-9.1.x86_64.rpm	VK0120GFDKE	HPG1 (I)	HPG1	更新
1529	Online HDD/SSD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-9.1.x86_64.rpm	VK0240GFDKF	HPG1 (I)	HPG1	更新
1530	Online HDD/SSD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-9.1.x86_64.rpm	VK0480GFDKH	HPG1 (I)	HPG1	更新
1531	Online HDD/SSD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-9.1.x86_64.rpm	VK0960GFDKK	HPG1 (I)	HPG1	更新
1532	Online HDD/SSD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-9.1.x86_64.rpm	VK1920GFDKL	HPG1 (I)	HPG1	更新
1533	Online HDD/SSD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	firmware-hdd-a2d4b5c742-HPG1-9.1.x86_64.rpm	VK3840GFDKN	HPG1 (I)	HPG1	更新
1534	Online HDD/SSD Flash Component for Linux (x64) - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives	firmware-hdd-1a516522d1-HPG1-8.1.x86_64.rpm	VK0240GEPQN	HPG1 (H)	HPG1	更新
1535	Online HDD/SSD Flash Component for Linux (x64) - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives	firmware-hdd-1a516522d1-HPG1-8.1.x86_64.rpm	VK0480GEPQP	HPG1 (H)	HPG1	更新
1536	Online HDD/SSD Flash Component for Linux (x64) - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives	firmware-hdd-1a516522d1-HPG1-8.1.x86_64.rpm	VK0960GEPQQ	HPG1 (H)	HPG1	更新
1537	Online HDD/SSD Flash Component for Linux (x64) - VR000150GWEPP and	firmware-hdd-b7eb905efe-HPG1-6.1.x86_64.rpm	VR000150GWEPP	HPG1 (F)	HPG1	更新

	VR000480GWEPR Drives					
1538	Online HDD/SSD Flash Component for Linux (x64) - VR000150GWEPP and VR000480GWEPR Drives	firmware-hdd-b7eb905efe-HPG1-6.1.x86_64.rpm	VR000480GWEPR	HPG1 (F)	HPG1	更新
1539	Online HDD/SSD Flash Component for Linux (x64) - XP0120GFJSL and XP0240GFJSN Drives	firmware-hdd-d355375539-HPS4-9.1.x86_64.rpm	XP0120GFJSL	HPS4 (I)	HPS4	更新
1540	Online HDD/SSD Flash Component for Linux (x64) - XP0120GFJSL and XP0240GFJSN Drives	firmware-hdd-d355375539-HPS4-9.1.x86_64.rpm	XP0240GFJSN	HPS4 (I)	HPS4	更新
1541	Online HDD/SSD Flash Component for VMware ESXi - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPPH Drives	CP045624.zip	EK000200GWEPPH	HPG3 (F)	HPG3	更新
1542	Online HDD/SSD Flash Component for VMware ESXi - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPPH Drives	CP045624.zip	EK000400GWEPE	HPG3 (F)	HPG3	更新
1543	Online HDD/SSD Flash Component for VMware ESXi - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPPH Drives	CP045624.zip	EK000800GWEPP	HPG3 (F)	HPG3	更新
1544	Online HDD/SSD Flash Component for VMware ESXi - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPPH Drives	CP045624.zip	EK001600GWEPPH	HPG3 (F)	HPG3	更新
1545	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWCBC and MB002000GWCBD Drives	CP045626.zip	MB001000GWCBC	HPG6 (E)	HPG6	更新
1546	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWCBC and MB002000GWCBD Drives	CP045626.zip	MB002000GWCBD	HPG6 (E)	HPG6	更新
1547	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFVK and MB002000GWFVL Drives	CP045627.zip	MB001000GWFVK	HPG6 (E)	HPG6	更新
1548	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFVK and MB002000GWFVL Drives	CP045627.zip	MB002000GWFVL	HPG6 (E)	HPG6	更新
1549	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFJA, MB002000GWFJA and MB004000GWFJB Drives	CP045628.zip	MB001000GWFJA	HPG1 (E)	HPG1	更新
1550	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFJA, MB002000GWFJA and MB004000GWFJB Drives	CP045628.zip	MB002000GWFJA	HPG1 (E)	HPG1	更新
1551	Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFJA,	CP045628.zip	MB004000GWFJB	HPG1 (E)	HPG1	更新

	MB002000GFWFA and MB004000GFWFB Drives					
1552	Online HDD/SSD Flash Component for VMware ESXi - MB002000GWFGH and MB001000GWFGF Drives	CP045629.zip	MB002000GWFGH	HPG3 (G)	HPG3	更新
1553	Online HDD/SSD Flash Component for VMware ESXi - MB002000GWFGH and MB001000GWFGF Drives	CP045629.zip	MB001000GWFGF	HPG3 (G)	HPG3	更新
1554	Online HDD/SSD Flash Component for VMware ESXi - MB004000GWKGV Drive	CP045631.zip	MB004000GWKGV	HPG1 (E)	HPG1	更新
1555	Online HDD/SSD Flash Component for VMware ESXi - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives	CP045978.zip	MB004000GWWQH	HPG3 (B)	HPG3	更新
1556	Online HDD/SSD Flash Component for VMware ESXi - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives	CP045978.zip	MB002000GWWQF	HPG3 (B)	HPG3	更新
1557	Online HDD/SSD Flash Component for VMware ESXi - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives	CP045978.zip	MB001000GWWQE	HPG3 (B)	HPG3	更新
1558	Online HDD/SSD Flash Component for VMware ESXi - MB006000GWBXQ and MB008000GWBXL Drives	CP045634.zip	MB006000GWBXQ	HPG8 (E)	HPG8	更新
1559	Online HDD/SSD Flash Component for VMware ESXi - MB006000GWBXQ and MB008000GWBXL Drives	CP045634.zip	MB008000GWBXL	HPG8 (E)	HPG8	更新
1560	Online HDD/SSD Flash Component for VMware ESXi - MB006000GWJRR and MB008000GWJRT Drives	CP045710.zip	MB006000GWJRR	HPG4 (C)	HPG4	更新
1561	Online HDD/SSD Flash Component for VMware ESXi - MB006000GWJRR and MB008000GWJRT Drives	CP045710.zip	MB008000GWJRT	HPG4 (C)	HPG4	更新
1562	Online HDD/SSD Flash Component for VMware ESXi - MB006000GWKGR Drive	CP045635.zip	MB006000GWKGR	HPG1 (E)	HPG1	更新
1563	Online HDD/SSD Flash Component for VMware ESXi - MB008000GWRTC Drive	CP045637.zip	MB008000GWRTC	HPG1 (E)	HPG1	更新
1564	Online HDD/SSD Flash Component for VMware ESXi - MB008000GWWQU and MB006000GWWQT Drives	CP045695.zip	MB008000GWWQU	HPG2 (C)	HPG2	更新
1565	Online HDD/SSD Flash Component for VMware ESXi - MB008000GWWQU and MB006000GWWQT Drives	CP045695.zip	MB006000GWWQT	HPG2 (C)	HPG2	更新
1566	Online HDD/SSD Flash Component for VMware ESXi - MB010000GWAYN and MB008000GWAYL Drives	CP045639.zip	MB010000GWAYN	HPG5 (F)	HPG5	更新
1567	Online HDD/SSD Flash Component for VMware ESXi - MB010000GWAYN and MB008000GWAYL Drives	CP045639.zip	MB008000GWAYL	HPG5 (F)	HPG5	更新

1568	Online HDD/SSD Flash Component for VMware ESXi - MB012000GWDFE Drive	CP045641.zip	MB012000GWDFE	HPG2 (F)	HPG2	更新
1569	Online HDD/SSD Flash Component for VMware ESXi - MB012000GWTFE and MB014000GWTFE Drives	CP046334.zip	MB012000GWTFE	HPG7 (B)	HPG7	更新
1570	Online HDD/SSD Flash Component for VMware ESXi - MB012000GWTFE and MB014000GWTFE Drives	CP046334.zip	MB014000GWTFE	HPG7 (B)	HPG7	更新
1571	Online HDD/SSD Flash Component for VMware ESXi - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	CP045644.zip	MB014000GWRTN	HPG2 (E)	HPG2	更新
1572	Online HDD/SSD Flash Component for VMware ESXi - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	CP045644.zip	MB012000GWRTL	HPG2 (E)	HPG2	更新
1573	Online HDD/SSD Flash Component for VMware ESXi - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	CP045644.zip	MB010000GWRTK	HPG2 (E)	HPG2	更新
1574	Online HDD/SSD Flash Component for VMware ESXi - MB014000GWUDA Drive	CP045645.zip	MB014000GWUDA	HPG2 (E)	HPG2	更新
1575	Online HDD/SSD Flash Component for VMware ESXi - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	CP045648.zip	MB1000GDUNU	HPG4 (J)	HPG4	更新
1576	Online HDD/SSD Flash Component for VMware ESXi - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	CP045648.zip	MB2000GDUNV	HPG4 (J)	HPG4	更新
1577	Online HDD/SSD Flash Component for VMware ESXi - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	CP045648.zip	MB3000GDUPA	HPG4 (J)	HPG4	更新
1578	Online HDD/SSD Flash Component for VMware ESXi - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	CP045648.zip	MB4000GDUPB	HPG4 (J)	HPG4	更新
1579	Online HDD/SSD Flash Component for VMware ESXi - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	CP045649.zip	MB1000GVYZE	HPG4 (H)	HPG4	更新
1580	Online HDD/SSD Flash Component for VMware ESXi - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	CP045649.zip	MB2000GVYZF	HPG4 (H)	HPG4	更新
1581	Online HDD/SSD Flash	CP045649.zip	MB3000GVYZH	HPG4 (H)	HPG4	更新

	Component for VMware ESXi - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives					
1582	Online HDD/SSD Flash Component for VMware ESXi - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	CP045649.zip	MB4000GVYZK	HPG4 (H)	HPG4	更新
1583	Online HDD/SSD Flash Component for VMware ESXi - MB2000GCWLT, MB3000GCWLU and MB4000GCWLV Drives	CP045651.zip	MB2000GCWLT	HPG4 (J)	HPG4	更新
1584	Online HDD/SSD Flash Component for VMware ESXi - MB2000GCWLT, MB3000GCWLU and MB4000GCWLV Drives	CP045651.zip	MB3000GCWLU	HPG4 (J)	HPG4	更新
1585	Online HDD/SSD Flash Component for VMware ESXi - MB2000GCWLT, MB3000GCWLU and MB4000GCWLV Drives	CP045651.zip	MB4000GCWLV	HPG4 (J)	HPG4	更新
1586	Online HDD/SSD Flash Component for VMware ESXi - MB2000GFEMH and MB4000GFEMK Drives	CP045652.zip	MB2000GFEMH	HPG6 (H)	HPG6	更新
1587	Online HDD/SSD Flash Component for VMware ESXi - MB2000GFEMH and MB4000GFEMK Drives	CP045652.zip	MB4000GFEMK	HPG6 (H)	HPG6	更新
1588	Online HDD/SSD Flash Component for VMware ESXi - MB4000GEFNA and MB6000GEFNB Drives	CP045656.zip	MB4000GEFNA	HPG6 (H)	HPG6	更新
1589	Online HDD/SSD Flash Component for VMware ESXi - MB4000GEFNA and MB6000GEFNB Drives	CP045656.zip	MB6000GEFNB	HPG6 (H)	HPG6	更新
1590	Online HDD/SSD Flash Component for VMware ESXi - MB4000GEQNH and MB6000GEQNK Drives	CP045657.zip	MB4000GEQNH	HPGB (H)	HPGB	更新
1591	Online HDD/SSD Flash Component for VMware ESXi - MB4000GEQNH and MB6000GEQNK Drives	CP045657.zip	MB6000GEQNK	HPGB (H)	HPGB	更新
1592	Online HDD/SSD Flash Component for VMware ESXi - MB6000GEBTP Drive	CP045661.zip	MB6000GEBTP	HPG4 (H)	HPG4	更新
1593	Online HDD/SSD Flash Component for VMware ESXi - MB6000GEQUT and MB8000GEQUU Drives	CP045662.zip	MB6000GEQUT	HPGB (H)	HPGB	更新
1594	Online HDD/SSD Flash Component for VMware ESXi - MB6000GEQUT and MB8000GEQUU Drives	CP045662.zip	MB8000GEQUU	HPGB (H)	HPGB	更新
1595	Online HDD/SSD Flash Component for VMware ESXi - MB6000GEXXV Drive	CP045663.zip	MB6000GEXXV	HPG2 (J)	HPG2	更新
1596	Online HDD/SSD Flash Component for VMware ESXi	CP045664.zip	MB6000GVYYU	HPG2 (H)	HPG2	更新

	- MB6000GVYYU Drive					
1597	Online HDD/SSD Flash Component for VMware ESXi - MB6000GVYZB and MB4000GVYZA Drives	CP045665.zip	MB6000GVYZB	HPG4 (E)	HPG4	更新
1598	Online HDD/SSD Flash Component for VMware ESXi - MB6000GVYZB and MB4000GVYZA Drives	CP045665.zip	MB4000GVYZA	HPG4 (E)	HPG4	更新
1599	Online HDD/SSD Flash Component for VMware ESXi - MB8000GFECR Drive	CP045713.zip	MB8000GFECR	HPG6 (F)	HPG6	更新
1600	Online HDD/SSD Flash Component for VMware ESXi - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	CP045669.zip	MK000240GWCEU	HPG3 (F)	HPG3	更新
1601	Online HDD/SSD Flash Component for VMware ESXi - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	CP045669.zip	MK000480GWCEV	HPG3 (F)	HPG3	更新
1602	Online HDD/SSD Flash Component for VMware ESXi - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	CP045669.zip	MK000960GWCFA	HPG3 (F)	HPG3	更新
1603	Online HDD/SSD Flash Component for VMware ESXi - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	CP045669.zip	MK001920GWCFB	HPG3 (F)	HPG3	更新
1604	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	CP045980.zip	MK000480GWSSC	HPG3 (B)	HPG3	更新
1605	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	CP045980.zip	MK000960GWSSD	HPG3 (B)	HPG3	更新
1606	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	CP045980.zip	MK001920GWSSE	HPG3 (B)	HPG3	更新
1607	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	CP045980.zip	MK003840GWSSF	HPG3 (B)	HPG3	更新
1608	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP045697.zip	MK000480GWXFF	HPG1 (C)	HPG1	更新

1609	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP045697.zip	MK000960GWXFH	HPG1 (C)	HPG1	更新
1610	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP045697.zip	MK001920GWXFK	HPG1 (C)	HPG1	更新
1611	Online HDD/SSD Flash Component for VMware ESXi - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	CP045697.zip	MK003840GWXFL	HPG1 (C)	HPG1	更新
1612	Online HDD/SSD Flash Component for VMware ESXi - MK003840GWHT E Drive	CP045670.zip	MK003840GWHT E	HPG6 (E)	HPG6	更新
1613	Online HDD/SSD Flash Component for VMware ESXi - MK0960GECQK Drive	CP045671.zip	MK0960GECQK	HPG3 (K)	HPG3	更新
1614	Online HDD/SSD Flash Component for VMware ESXi - MM1000GEFQV and MM2000GEFRA Drives	CP045672.zip	MM1000GEFQV	HPG8 (G)	HPG8	更新
1615	Online HDD/SSD Flash Component for VMware ESXi - MM1000GEFQV and MM2000GEFRA Drives	CP045672.zip	MM2000GEFRA	HPG8 (G)	HPG8	更新
1616	Online HDD/SSD Flash Component for VMware ESXi - MM1000GFJTE Drive	CP045673.zip	MM1000GFJTE	HPG5 (E)	HPG5	更新
1617	Online HDD/SSD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	CP045678.zip	MR000240GWFLU	HPGE (E)	HPGE	更新
1618	Online HDD/SSD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	CP045678.zip	MR000480GWFLV	HPGE (E)	HPGE	更新
1619	Online HDD/SSD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	CP045678.zip	VR000480GWFMD	HPGE (E)	HPGE	更新
1620	Online HDD/SSD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV,	CP045678.zip	MR000960GWFMA	HPGE (E)	HPGE	更新

	VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives					
1621	Online HDD/SSD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	CP045678.zip	VR000960GWFME	HPGE (E)	HPGE	更新
1622	Online HDD/SSD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	CP045678.zip	MR001920GWFMB	HPGE (E)	HPGE	更新
1623	Online HDD/SSD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives	CP045678.zip	VR001920GWFMC	HPGE (E)	HPGE	更新
1624	Online HDD/SSD Flash Component for VMware ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	CP045679.zip	VK000150GWCNN	HPG1 (E)	HPG1	更新
1625	Online HDD/SSD Flash Component for VMware ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	CP045679.zip	VK000240GWCNP	HPG1 (E)	HPG1	更新
1626	Online HDD/SSD Flash Component for VMware ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	CP045679.zip	VK000480GWCNQ	HPG1 (E)	HPG1	更新
1627	Online HDD/SSD Flash Component for VMware ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	CP045679.zip	VK000960GWCNR	HPG1 (E)	HPG1	更新
1628	Online HDD/SSD Flash Component for VMware ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and	CP045679.zip	VK001600GWCNT	HPG1 (E)	HPG1	更新

	VK001600GWCNT Drives					
1629	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.	CP045680.zip	VK000240GWCFD	HPG3 (F)	HPG3	更新
1630	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.	CP045680.zip	VK000480GWCFE	HPG3 (F)	HPG3	更新
1631	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.	CP045680.zip	VK000960GWCFE	HPG3 (F)	HPG3	更新
1632	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.	CP045680.zip	VK001920GWCFH	HPG3 (F)	HPG3	更新
1633	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives.	CP045680.zip	VK003840GWCFK	HPG3 (F)	HPG3	更新
1634	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP045694.zip	VK000240GWEZB	HPGE (F)	HPGE	更新
1635	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP045694.zip	VK000480GWEZC	HPGE (F)	HPGE	更新
1636	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP045694.zip	VK000960GWEZD	HPGE (F)	HPGE	更新

1637	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP045694.zip	VK001920GWEZE	HPGE (F)	HPGE	更新
1638	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP045694.zip	MK000240GWEZF	HPGE (F)	HPGE	更新
1639	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP045694.zip	MK000480GWEZH	HPGE (F)	HPGE	更新
1640	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP045694.zip	MK000960GWEZK	HPGE (F)	HPGE	更新
1641	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	CP045694.zip	MK001920GWHRU	HPGE (F)	HPGE	更新
1642	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	CP045721.zip	MK000240GWKVK	HPG5 (E)	HPG5	更新
1643	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF,	CP045721.zip	MK000480GWJPN	HPG5 (E)	HPG5	更新

	VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives					
1644	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives	CP045721.zip	MK000960GWJPP	HPG5 (E)	HPG5	更新
1645	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives	CP045721.zip	MK001920GWJPQ	HPG5 (E)	HPG5	更新
1646	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives	CP045721.zip	VK000240GWJPD	HPG5 (E)	HPG5	更新
1647	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives	CP045721.zip	VK000480GWJPE	HPG5 (E)	HPG5	更新
1648	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives	CP045721.zip	VK000960GWJPF	HPG5 (E)	HPG5	更新
1649	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF,	CP045721.zip	VK001920GWJPH	HPG5 (E)	HPG5	更新

	VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives					
1650	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives	CP045721.zip	VK003840GWJPK	HPG5 (E)	HPG5	更新
1651	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives	CP045848.zip	VK000240GWSRQ	HPG4 (B)	HPG4	更新
1652	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives	CP045848.zip	VK000480GWSRR	HPG4 (B)	HPG4	更新
1653	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives	CP045848.zip	VK000960GWSRT	HPG4 (B)	HPG4	更新
1654	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives	CP045848.zip	VK001920GWSRU	HPG4 (B)	HPG4	更新
1655	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU, VK003840GWSRV Drives	CP045848.zip	VK003840GWSRV	HPG4 (B)	HPG4	更新
1656	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTD, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	CP045948.zip	VK000240GWTSV	HPG6 (B)	HPG6	更新
1657	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV,	CP045948.zip	VK000480GWTTA	HPG6 (B)	HPG6	更新

	VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTTL and MK003840GWTTN Drives					
1658	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTTL and MK003840GWTTN Drives	CP045948.zip	VK000960GWTTB	HPG6 (B)	HPG6	更新
1659	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTTL and MK003840GWTTN Drives	CP045948.zip	VK001920GWTTTC	HPG6 (B)	HPG6	更新
1660	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTTL and MK003840GWTTN Drives	CP045948.zip	VK003840GWTTD	HPG6 (B)	HPG6	更新
1661	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTTL and MK003840GWTTN Drives	CP045948.zip	MK000480GWTT H	HPG6 (B)	HPG6	更新
1662	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTTL and MK003840GWTTN Drives	CP045948.zip	MK000960GWTTK	HPG6 (B)	HPG6	更新
1663	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV,	CP045948.zip	MK001920GWTTL	HPG6 (B)	HPG6	更新

	VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTTL and MK003840GWTTN Drives					
1664	Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTTL and MK003840GWTTN Drives	CP045948.zip	MK003840GWTT N	HPG6 (B)	HPG6	更新
1665	Online HDD/SSD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	CP045682.zip	VK000480GWSXF	HPG2 (E)	HPG2	更新
1666	Online HDD/SSD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	CP045682.zip	VK000960GWSXH	HPG2 (E)	HPG2	更新
1667	Online HDD/SSD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	CP045682.zip	VK001920GWSXK	HPG2 (E)	HPG2	更新
1668	Online HDD/SSD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	CP045682.zip	MK000480GWUG F	HPG2 (E)	HPG2	更新
1669	Online HDD/SSD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	CP045682.zip	MK000960GWUG H	HPG2 (E)	HPG2	更新
1670	Online HDD/SSD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and	CP045682.zip	MK001920GWUG K	HPG2 (E)	HPG2	更新

	MK001920GWUGK Drives					
1671	Online HDD/SSD Flash Component for VMware ESXi - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	CP046506.zip	VK000480GWTHA	HPG2	HPG2	更新
1672	Online HDD/SSD Flash Component for VMware ESXi - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	CP046506.zip	VK000960GWTHB	HPG2	HPG2	更新
1673	Online HDD/SSD Flash Component for VMware ESXi - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	CP046506.zip	VK001920GWTHC	HPG2	HPG2	更新
1674	Online HDD/SSD Flash Component for VMware ESXi - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	CP046506.zip	VK003840GWTHD	HPG2	HPG2	更新
1675	Online HDD/SSD Flash Component for VMware ESXi - VK003840GWSXL Drive	CP045684.zip	VK003840GWSXL	HPG2 (E)	HPG2	更新
1676	Online HDD/SSD Flash Component for VMware ESXi - VK007680GWSXN Drive	CP045685.zip	VK007680GWSXN	HPG2 (E)	HPG2	更新
1677	Online HDD/SSD Flash Component for VMware ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP045686.zip	VK0120GFDKE	HPG1 (I)	HPG1	更新
1678	Online HDD/SSD Flash Component for VMware ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP045686.zip	VK0240GFDKF	HPG1 (I)	HPG1	更新
1679	Online HDD/SSD Flash Component for VMware ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP045686.zip	VK0480GFDKH	HPG1 (I)	HPG1	更新
1680	Online HDD/SSD Flash Component for VMware ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP045686.zip	VK0960GFDKK	HPG1 (I)	HPG1	更新
1681	Online HDD/SSD Flash Component for VMware ESXi - VK0120GFDKE,	CP045686.zip	VK1920GFDKL	HPG1 (I)	HPG1	更新

	VK0240GDFKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives					
1682	Online HDD/SSD Flash Component for VMware ESXi - VK0120GFDKE, VK0240GDFKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives	CP045686.zip	VK3840GFDKN	HPG1 (I)	HPG1	更新
1683	Online HDD/SSD Flash Component for VMware ESXi - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives	CP045687.zip	VK0240GEPQN	HPG1 (I)	HPG1	更新
1684	Online HDD/SSD Flash Component for VMware ESXi - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives	CP045687.zip	VK0480GEPQP	HPG1 (I)	HPG1	更新
1685	Online HDD/SSD Flash Component for VMware ESXi - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives	CP045687.zip	VK0960GEPQQ	HPG1 (I)	HPG1	更新
1686	Online HDD/SSD Flash Component for VMware ESXi - VR000150GWEPP and VR000480GWEPR Drives	CP045691.zip	VR000150GWEPP	HPG1 (F)	HPG1	更新
1687	Online HDD/SSD Flash Component for VMware ESXi - VR000150GWEPP and VR000480GWEPR Drives	CP045691.zip	VR000480GWEPR	HPG1 (F)	HPG1	更新
1688	Online HDD/SSD Flash Component for VMware ESXi - XP0120GFJSL and XP0240GFJSN Drives	CP045693.zip	XP0120GFJSL	HPS4 (I)	HPS4	更新
1689	Online HDD/SSD Flash Component for VMware ESXi - XP0120GFJSL and XP0240GFJSN Drives	CP045693.zip	XP0240GFJSN	HPS4 (I)	HPS4	更新
1690	Online HDD/SSD Flash Component for Windows (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPP Drives	cp045511.exe	EK000200GWEPD	HPG3 (E)	HPG3	更新
1691	Online HDD/SSD Flash Component for Windows (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPP Drives	cp045511.exe	EK000400GWEPE	HPG3 (E)	HPG3	更新
1692	Online HDD/SSD Flash Component for Windows (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPP and EK001600GWEPP Drives	cp045511.exe	EK000800GWEPP	HPG3 (E)	HPG3	更新
1693	Online HDD/SSD Flash Component for Windows (x64) - EK000200GWEPD, EK000400GWEPE,	cp045511.exe	EK001600GWEPP	HPG3 (E)	HPG3	更新

	EK000800GWEPEF and EK001600GWEPEH Drives					
1694	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWCBC and MB002000GWCBD Drives	cp045514.exe	MB001000GWCBC	HPG6 (D)	HPG6	更新
1695	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWCBC and MB002000GWCBD Drives	cp045514.exe	MB002000GWCBD	HPG6 (D)	HPG6	更新
1696	Online HDD/SSD Flash Component for Windows (x64) - MB001000GFWFK and MB002000GFWFL Drives	cp045515.exe	MB001000GFWFK	HPG6 (D)	HPG6	更新
1697	Online HDD/SSD Flash Component for Windows (x64) - MB001000GFWFK and MB002000GFWFL Drives	cp045515.exe	MB002000GFWFL	HPG6 (D)	HPG6	更新
1698	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GFWFA and MB004000GFWFB Drives	cp045516.exe	MB001000GWJAN	HPG1 (D)	HPG1	更新
1699	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GFWFA and MB004000GFWFB Drives	cp045516.exe	MB002000GFWFA	HPG1 (D)	HPG1	更新
1700	Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GFWFA and MB004000GFWFB Drives	cp045516.exe	MB004000GFWFB	HPG1 (D)	HPG1	更新
1701	Online HDD/SSD Flash Component for Windows (x64) - MB002000GWFGH and MB001000GWFGF Drives	cp045517.exe	MB001000GWFGF	HPG3 (F)	HPG3	更新
1702	Online HDD/SSD Flash Component for Windows (x64) - MB002000GWFGH and MB001000GWFGF Drives	cp045517.exe	MB002000GWFGH	HPG3 (F)	HPG3	更新
1703	Online HDD/SSD Flash Component for Windows (x64) - MB004000GWKGV Drive	cp045519.exe	MB004000GWKGV	HPG1 (D)	HPG1	更新
1704	Online HDD/SSD Flash Component for Windows (x64) - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives	cp045899.exe	MB004000GWWQH	HPG3 (B)	HPG3	更新
1705	Online HDD/SSD Flash Component for Windows (x64) - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives	cp045899.exe	MB002000GWWQF	HPG3 (B)	HPG3	更新
1706	Online HDD/SSD Flash Component for Windows (x64) - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives	cp045899.exe	MB001000GWWQE	HPG3 (B)	HPG3	更新
1707	Online HDD/SSD Flash Component for Windows (x64) - MB006000GWBXQ and MB008000GWBYL Drives	cp045522.exe	MB006000GWBXQ	HPG8 (D)	HPG8	更新

1708	Online HDD/SSD Flash Component for Windows (x64) - MB006000GWBXQ and MB008000GWBYL Drives	cp045522.exe	MB008000GWBYL	HPG8 (D)	HPG8	更新
1709	Online HDD/SSD Flash Component for Windows (x64) - MB006000GWJRR and MB008000GWJRT Drives	cp045599.exe	MB006000GWJRR	HPG4 (C)	HPG4	更新
1710	Online HDD/SSD Flash Component for Windows (x64) - MB006000GWJRR and MB008000GWJRT Drives	cp045599.exe	MB008000GWJRT	HPG4 (C)	HPG4	更新
1711	Online HDD/SSD Flash Component for Windows (x64) - MB006000GWKGR Drive	cp045523.exe	MB006000GWKGR	HPG1 (D)	HPG1	更新
1712	Online HDD/SSD Flash Component for Windows (x64) - MB008000GWRTC Drive	cp045525.exe	MB008000GWRTC	HPG1 (D)	HPG1	更新
1713	Online HDD/SSD Flash Component for Windows (x64) - MB008000GWWQU and MB006000GWWQT Drives	cp045584.exe	MB008000GWWQU	HPG2 (C)	HPG2	更新
1714	Online HDD/SSD Flash Component for Windows (x64) - MB008000GWWQU and MB006000GWWQT Drives	cp045584.exe	MB006000GWWQT	HPG2 (C)	HPG2	更新
1715	Online HDD/SSD Flash Component for Windows (x64) - MB010000GWAYN and MB008000GWAYL Drives	cp045527.exe	MB010000GWAYN	HPG5 (E)	HPG5	更新
1716	Online HDD/SSD Flash Component for Windows (x64) - MB010000GWAYN and MB008000GWAYL Drives	cp045527.exe	MB008000GWAYL	HPG5 (E)	HPG5	更新
1717	Online HDD/SSD Flash Component for Windows (x64) - MB012000GWDFE Drive	cp045529.exe	MB012000GWDFE	HPG2 (E)	HPG2	更新
1718	Online HDD/SSD Flash Component for Windows (x64) - MB012000GWTFE and MB014000GWTFE Drives	cp046335.exe	MB012000GWTFE	HPG7 (B)	HPG7	更新
1719	Online HDD/SSD Flash Component for Windows (x64) - MB012000GWTFE and MB014000GWTFE Drives	cp046335.exe	MB014000GWTFE	HPG7 (B)	HPG7	更新
1720	Online HDD/SSD Flash Component for Windows (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	cp045532.exe	MB014000GWRTN	HPG2 (D)	HPG2	更新
1721	Online HDD/SSD Flash Component for Windows (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	cp045532.exe	MB012000GWRTL	HPG2 (D)	HPG2	更新
1722	Online HDD/SSD Flash Component for Windows (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives	cp045532.exe	MB010000GWRTK	HPG2 (D)	HPG2	更新
1723	Online HDD/SSD Flash	cp045533.exe	MB014000GWUD	HPG2 (D)	HPG2	更新

	Component for Windows (x64) - MB014000GWUDA Drive		A			
1724	Online HDD/SSD Flash Component for Windows (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	cp045536.exe	MB1000GDUNU	HPG4 (H)	HPG4	更新
1725	Online HDD/SSD Flash Component for Windows (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	cp045536.exe	MB2000GDUNV	HPG4 (H)	HPG4	更新
1726	Online HDD/SSD Flash Component for Windows (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	cp045536.exe	MB3000GDUPA	HPG4 (H)	HPG4	更新
1727	Online HDD/SSD Flash Component for Windows (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives	cp045536.exe	MB4000GDUPB	HPG4 (H)	HPG4	更新
1728	Online HDD/SSD Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	cp045537.exe	MB1000GVYZE	HPG4 (H)	HPG4	更新
1729	Online HDD/SSD Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	cp045537.exe	MB2000GVYZF	HPG4 (H)	HPG4	更新
1730	Online HDD/SSD Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	cp045537.exe	MB3000GVYZH	HPG4 (H)	HPG4	更新
1731	Online HDD/SSD Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives	cp045537.exe	MB4000GVYZK	HPG4 (H)	HPG4	更新
1732	Online HDD/SSD Flash Component for Windows (x64) - MB2000GCWLT, MB3000GCWLU and MB4000GCWLV Drives	cp045539.exe	MB2000GCWLT	HPG4 (H)	HPG4	更新
1733	Online HDD/SSD Flash Component for Windows (x64) - MB2000GCWLT, MB3000GCWLU and MB4000GCWLV Drives	cp045539.exe	MB3000GCWLU	HPG4 (H)	HPG4	更新
1734	Online HDD/SSD Flash Component for Windows (x64) - MB2000GCWLT, MB3000GCWLU and MB4000GCWLV Drives	cp045539.exe	MB4000GCWLV	HPG4 (H)	HPG4	更新

1735	Online HDD/SSD Flash Component for Windows (x64) - MB2000GFEMH and MB4000GFEMK Drives	cp045540.exe	MB2000GFEMH	HPG6 (G)	HPG6	更新
1736	Online HDD/SSD Flash Component for Windows (x64) - MB2000GFEMH and MB4000GFEMK Drives	cp045540.exe	MB4000GFEMK	HPG6 (G)	HPG6	更新
1737	Online HDD/SSD Flash Component for Windows (x64) - MB4000GEFNA and MB6000GEFNB Drives	cp045544.exe	MB4000GEFNA	HPG6 (H)	HPG6	更新
1738	Online HDD/SSD Flash Component for Windows (x64) - MB4000GEFNA and MB6000GEFNB Drives	cp045544.exe	MB6000GEFNB	HPG6 (H)	HPG6	更新
1739	Online HDD/SSD Flash Component for Windows (x64) - MB4000GEQNH and MB6000GEQNK Drives	cp045545.exe	MB4000GEQNH	HPGB (G)	HPGB	更新
1740	Online HDD/SSD Flash Component for Windows (x64) - MB4000GEQNH and MB6000GEQNK Drives	cp045545.exe	MB6000GEQNK	HPGB (G)	HPGB	更新
1741	Online HDD/SSD Flash Component for Windows (x64) - MB6000GEBTP Drive	cp045549.exe	MB6000GEBTP	HPG4 (G)	HPG4	更新
1742	Online HDD/SSD Flash Component for Windows (x64) - MB6000GEQUT and MB8000GEQUU Drives	cp045550.exe	MB6000GEQUT	HPGB (G)	HPGB	更新
1743	Online HDD/SSD Flash Component for Windows (x64) - MB6000GEQUT and MB8000GEQUU Drives	cp045550.exe	MB8000GEQUU	HPGB (G)	HPGB	更新
1744	Online HDD/SSD Flash Component for Windows (x64) - MB6000GEXXV Drive	cp045551.exe	MB6000GEXXV	HPG2 (H)	HPG2	更新
1745	Online HDD/SSD Flash Component for Windows (x64) - MB6000GVYYU Drive	cp045552.exe	MB6000GVYYU	HPG2 (G)	HPG2	更新
1746	Online HDD/SSD Flash Component for Windows (x64) - MB6000GVYZB and MB4000GVYZA Drives	cp045553.exe	MB6000GVYZB	HPG4 (D)	HPG4	更新
1747	Online HDD/SSD Flash Component for Windows (x64) - MB6000GVYZB and MB4000GVYZA Drives	cp045553.exe	MB4000GVYZA	HPG4 (D)	HPG4	更新
1748	Online HDD/SSD Flash Component for Windows (x64) - MB8000GFECR Drive	cp045557.exe	MB8000GFECR	HPG6 (D)	HPG6	更新
1749	Online HDD/SSD Flash Component for Windows (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	cp045560.exe	MK000480GWCEV	HPG3 (E)	HPG3	更新
1750	Online HDD/SSD Flash Component for Windows (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives	cp045560.exe	MK000960GWCFA	HPG3 (E)	HPG3	更新
1751	Online HDD/SSD Flash Component for Windows	cp045560.exe	MK001920GWCFCB	HPG3 (E)	HPG3	更新

	(x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives					
1752	Online HDD/SSD Flash Component for Windows (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives	cp045560.exe	MK000240GWCEU	HPG3 (E)	HPG3	更新
1753	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	cp045901.exe	MK000480GWSSC	HPG3 (B)	HPG3	更新
1754	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	cp045901.exe	MK000960GWSSD	HPG3 (B)	HPG3	更新
1755	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	cp045901.exe	MK001920GWSSE	HPG3 (B)	HPG3	更新
1756	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives	cp045901.exe	MK003840GWSSF	HPG3 (B)	HPG3	更新
1757	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp045586.exe	MK000480GWXFF	HPG1 (C)	HPG1	更新
1758	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp045586.exe	MK000960GWXFH	HPG1 (C)	HPG1	更新
1759	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp045586.exe	MK001920GWXFK	HPG1 (C)	HPG1	更新
1760	Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives	cp045586.exe	MK003840GWXFL	HPG1 (C)	HPG1	更新
1761	Online HDD/SSD Flash Component for Windows (x64) - MK003840GWWHITE Drive	cp045561.exe	MK003840GWWHITE	HPG6 (D)	HPG6	更新
1762	Online HDD/SSD Flash Component for Windows (x64) - MK0960GECQK Drive	cp045562.exe	MK0960GECQK	HPG3 (J)	HPG3	更新
1763	Online HDD/SSD Flash	cp044279.exe	MM1000GEFQV	HPG8 (F)	HPG8	更新

	Component for Windows (x64) - MM1000GEFQV and MM2000GEFRA Drives					
1764	Online HDD/SSD Flash Component for Windows (x64) - MM1000GEFQV and MM2000GEFRA Drives	cp044279.exe	MM2000GEFRA	HPG8 (F)	HPG8	更新
1765	Online HDD/SSD Flash Component for Windows (x64) - MM1000GFJTE Drive	cp044278.exe	MM1000GFJTE	HPG5 (D)	HPG5	更新
1766	Online HDD/SSD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp045567.exe	MR000240GWFLU	HPGE (D)	HPGE	更新
1767	Online HDD/SSD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp045567.exe	MR000480GWFLV	HPGE (D)	HPGE	更新
1768	Online HDD/SSD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp045567.exe	VR000480GWFMD	HPGE (D)	HPGE	更新
1769	Online HDD/SSD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp045567.exe	MR000960GWFMA	HPGE (D)	HPGE	更新
1770	Online HDD/SSD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp045567.exe	VR000960GWFME	HPGE (D)	HPGE	更新
1771	Online HDD/SSD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480WFMD, MR000960WFMA, VR000960WFME, MR001920WFMB and VR001920WFMC Drives	cp045567.exe	MR001920GWFMB	HPGE (D)	HPGE	更新
1772	Online HDD/SSD Flash Component for Windows	cp045567.exe	VR001920GWFMC	HPGE (D)	HPGE	更新

	(x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives					
1773	Online HDD/SSD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	cp045568.exe	VK000150GWCNN	HPG1 (D)	HPG1	更新
1774	Online HDD/SSD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	cp045568.exe	VK000240GWCNP	HPG1 (D)	HPG1	更新
1775	Online HDD/SSD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	cp045568.exe	VK000480GWCNQ	HPG1 (D)	HPG1	更新
1776	Online HDD/SSD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	cp045568.exe	VK000960GWCNR	HPG1 (D)	HPG1	更新
1777	Online HDD/SSD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives	cp045568.exe	VK001600GWCNT	HPG1 (D)	HPG1	更新
1778	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	cp045290.exe	VK000480GWCFE	HPG3 (E)	HPG3	更新
1779	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	cp045290.exe	VK000960GWCFE	HPG3 (E)	HPG3	更新
1780	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	cp045290.exe	VK000240GWCFD	HPG3 (E)	HPG3	更新
1781	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWCFD,	cp045290.exe	VK001920GWCFH	HPG3 (E)	HPG3	更新

	VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives					
1782	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives	cp045290.exe	VK003840GWCFK	HPG3 (E)	HPG3	更新
1783	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp045773.exe	VK000240GWEZB	HPGE (E)	HPGE	更新
1784	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp045773.exe	VK000480GWEZC	HPGE (E)	HPGE	更新
1785	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp045773.exe	VK000960GWEZD	HPGE (E)	HPGE	更新
1786	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp045773.exe	VK001920GWEZE	HPGE (E)	HPGE	更新
1787	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp045773.exe	MK000240GWEZF	HPGE (E)	HPGE	更新
1788	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD,	cp045773.exe	MK000480GWEZ H	HPGE (E)	HPGE	更新

	VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives					
1789	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp045773.exe	MK000960GWEZK	HPGE (E)	HPGE	更新
1790	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives	cp045773.exe	MK001920GWHR U	HPGE (E)	HPGE	更新
1791	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp045601.exe	MK000240GWKV K	HPG5 (D)	HPG5	更新
1792	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp045601.exe	MK000480GWJPN	HPG5 (D)	HPG5	更新
1793	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp045601.exe	MK000960GWJPP	HPG5 (D)	HPG5	更新
1794	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK,	cp045601.exe	MK001920GWJPPQ	HPG5 (D)	HPG5	更新

	MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives					
1795	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp045601.exe	VK000240GWJPD	HPG5 (D)	HPG5	更新
1796	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp045601.exe	VK000480GWJPE	HPG5 (D)	HPG5	更新
1797	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp045601.exe	VK000960GWJPF	HPG5 (D)	HPG5	更新
1798	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp045601.exe	VK001920GWJPH	HPG5 (D)	HPG5	更新
1799	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives	cp045601.exe	VK003840GWJPK	HPG5 (D)	HPG5	更新
1800	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp045204.exe	VK000240GWSRQ	HPG4 (B)	HPG4	更新
1801	Online HDD/SSD Flash	cp045204.exe	VK000480GWSRR	HPG4 (B)	HPG4	更新

	Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives					
1802	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp045204.exe	VK000960GWSRT	HPG4 (B)	HPG4	更新
1803	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp045204.exe	VK001920GWSRU	HPG4 (B)	HPG4	更新
1804	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives	cp045204.exe	VK003840GWSRV	HPG4 (B)	HPG4	更新
1805	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTT, MK001920GWTTT and MK003840GWTTT Drives	cp045898.exe	VK000240GWTSV	HPG6 (B)	HPG6	更新
1806	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTT, MK001920GWTTT and MK003840GWTTT Drives	cp045898.exe	VK000480GWTTA	HPG6 (B)	HPG6	更新
1807	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTT, MK001920GWTTT and MK003840GWTTT Drives	cp045898.exe	VK000960GWTTB	HPG6 (B)	HPG6	更新
1808	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT,	cp045898.exe	VK001920GWTTT	HPG6 (B)	HPG6	更新

	VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives					
1809	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp045898.exe	VK003840GWTTD	HPG6 (B)	HPG6	更新
1810	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp045898.exe	MK000480GWTT H	HPG6 (B)	HPG6	更新
1811	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp045898.exe	MK000960GWTTK	HPG6 (B)	HPG6	更新
1812	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp045898.exe	MK001920GWTTL	HPG6 (B)	HPG6	更新
1813	Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTT, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives	cp045898.exe	MK003840GWTT N	HPG6 (B)	HPG6	更新
1814	Online HDD/SSD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF,	cp045570.exe	VK000480GWSXF	HPG2 (D)	HPG2	更新

	MK000960GWUGH and MK001920GWUGK Drives					
1815	Online HDD/SSD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	cp045570.exe	VK000960GWSXH	HPG2 (D)	HPG2	更新
1816	Online HDD/SSD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	cp045570.exe	VK001920GWSXK	HPG2 (D)	HPG2	更新
1817	Online HDD/SSD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	cp045570.exe	MK000480GWUG F	HPG2 (D)	HPG2	更新
1818	Online HDD/SSD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	cp045570.exe	MK000960GWUG H	HPG2 (D)	HPG2	更新
1819	Online HDD/SSD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives	cp045570.exe	MK001920GWUG K	HPG2 (D)	HPG2	更新
1820	Online HDD/SSD Flash Component for Windows (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	cp046508.exe	VK000480GWTHA	HPG2	HPG2	更新
1821	Online HDD/SSD Flash Component for Windows (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	cp046508.exe	VK000960GWTHB	HPG2	HPG2	更新
1822	Online HDD/SSD Flash Component for Windows (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	cp046508.exe	VK001920GWTHC	HPG2	HPG2	更新
1823	Online HDD/SSD Flash Component for Windows (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD Drives	cp046508.exe	VK003840GWTHD	HPG2	HPG2	更新

1824	Online HDD/SSD Flash Component for Windows (x64) - VK003840GWSXL Drive	cp045572.exe	VK003840GWSXL	HPG2 (D)	HPG2	更新
1825	Online HDD/SSD Flash Component for Windows (x64) - VK007680GWSXN Drive	cp045573.exe	VK007680GWSXN	HPG2 (D)	HPG2	更新
1826	Online HDD/SSD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	cp045574.exe	VK0120GFDKE	HPG1 (G)	HPG1	更新
1827	Online HDD/SSD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	cp045574.exe	VK0240GFDKF	HPG1 (G)	HPG1	更新
1828	Online HDD/SSD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	cp045574.exe	VK0480GFDKH	HPG1 (G)	HPG1	更新
1829	Online HDD/SSD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	cp045574.exe	VK0960GFDKK	HPG1 (G)	HPG1	更新
1830	Online HDD/SSD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	cp045574.exe	VK1920GFDKL	HPG1 (G)	HPG1	更新
1831	Online HDD/SSD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives	cp045574.exe	VK3840GFDKN	HPG1 (G)	HPG1	更新
1832	Online HDD/SSD Flash Component for Windows (x64) - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives	cp045575.exe	VK0240GEPQN	HPG1 (G)	HPG1	更新
1833	Online HDD/SSD Flash Component for Windows (x64) - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives	cp045575.exe	VK0480GEPQP	HPG1 (G)	HPG1	更新
1834	Online HDD/SSD Flash Component for Windows (x64) - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives	cp045575.exe	VK0960GEPQQ	HPG1 (G)	HPG1	更新
1835	Online HDD/SSD Flash	cp045581.exe	VR000150GWPEPP	HPG1 (E)	HPG1	更新

	Component for Windows (x64) - VR000150GWEPP and VR000480GWEPR Drives					
1836	Online HDD/SSD Flash Component for Windows (x64) - VR000150GWEPP and VR000480GWEPR Drives	cp045581.exe	VR000480GWEPR	HPG1 (E)	HPG1	更新
1837	Online HDD/SSD Flash Component for Windows (x64) - XP0120GFJSL and XP0240GFJSN Drives	cp045583.exe	XP0120GFJSL	HPS4 (G)	HPS4	更新
1838	Online HDD/SSD Flash Component for Windows (x64) - XP0120GFJSL and XP0240GFJSN Drives	cp045583.exe	XP0240GFJSN	HPS4 (G)	HPS4	更新

6.2.17 Firmware - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1839	Online Firmware Flash for ESXi - HPE NS204i-p, NS204i-d, NS204i-t, NS204i-r Gen10+ Boot Controller	CP044515.zip	HPE NS204i-p Gen10+ Boot Controller	1.0.14.1052	1.0.14.1052	新規追加
1840	Online Firmware Flash for ESXi - HPE NS204i-p, NS204i-d, NS204i-t, NS204i-r Gen10+ Boot Controller	CP044515.zip	HPE NS204i-r Gen10+ Boot Controller	1.0.14.1052	1.0.14.1052	新規追加
1841	Online Firmware Flash for Linux(x64) - HPE NS204i-p, NS204i-d, NS204i-t, NS204i-r Gen10+ Boot Controller	firmware-9041739931-1.0.14.1052-1.1.x86_64.rpm	HPE NS204i-p Gen10+ Boot Controller	1.0.14.1052	1.0.14.1052	新規追加
1842	Online Firmware Flash for Linux(x64) - HPE NS204i-p, NS204i-d, NS204i-t, NS204i-r Gen10+ Boot Controller	firmware-9041739931-1.0.14.1052-1.1.x86_64.rpm	HPE NS204i-r Gen10+ Boot Controller	1.0.14.1052	1.0.14.1052	新規追加
1843	Online Firmware Flash for Windows - HPE NS204i-p, NS204i-d, NS204i-t, NS204i-r Gen10+ Boot Controller	cp044566.exe	HPE NS204i-p Gen10+ Boot Controller	1.0.14.1052	1.0.14.1052	新規追加
1844	Online Firmware Flash for Windows - HPE NS204i-p, NS204i-d, NS204i-t, NS204i-r Gen10+ Boot Controller	cp044566.exe	HPE NS204i-r Gen10+ Boot Controller	1.0.14.1052	1.0.14.1052	新規追加
1845	Online ROM Flash Component for VMware ESXi - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers	CP044962.zip	HPE 12Gb SAS Expander Card	5.08	5.08	更新
1846	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP046359.zip	HPE Smart Array P816i-a SR Gen10 Controller	3.53	3.53	更新
1847	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP046359.zip	HPE Smart Array P408i-a SR Gen10 Controller	3.53	3.53	更新

1848	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP046359.zip	HPE Smart Array P408i-p SR Gen10 Controller	3.53	3.53	更新
1849	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP046359.zip	HPE Smart Array E208e-p SR Gen10 Controller	3.53	3.53	更新
1850	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP046359.zip	HPE Smart Array E208i-p SR Gen10 Controller	3.53	3.53	更新
1851	Online ROM Flash Component for VMware ESXi - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	CP046359.zip	HPE Smart Array E208i-a SR Gen10 Controller	3.53	3.53	更新
1852	Online ROM Flash Component for Windows (x64) - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers	cp044964.exe	HPE 12Gb SAS Expander Card	5.08	5.08	更新
1853	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp046357.exe	HPE Smart Array P816i-a SR Gen10 Controller	3.53	3.53	更新
1854	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp046357.exe	HPE Smart Array P408i-a SR Gen10 Controller	3.53	3.53	更新
1855	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp046357.exe	HPE Smart Array P408i-p SR Gen10 Controller	3.53	3.53	更新
1856	Online ROM Flash	cp046357.exe	HPE Smart Array	3.53	3.53	更新

	Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10		E208e-p SR Gen10 Controller			
1857	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp046357.exe	HPE Smart Array E208i-p SR Gen10 Controller	3.53	3.53	更新
1858	Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	cp046357.exe	HPE Smart Array E208i-a SR Gen10 Controller	3.53	3.53	更新
1859	Supplemental Update / Online ROM Flash Component for Linux (x64) – HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers	firmware-smartarray-2d e15b6882-5.08-1.1.x86_64.rpm	HPE 12Gb SAS Expander Card	5.08	5.08	更新
1860	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7 c07bdbbd-3.53-1.1.x86_64.rpm	HPE Smart Array P816i-a SR Gen10 Controller	3.53	3.53	更新
1861	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7 c07bdbbd-3.53-1.1.x86_64.rpm	HPE Smart Array P408i-a SR Gen10 Controller	3.53	3.53	更新
1862	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7 c07bdbbd-3.53-1.1.x86_64.rpm	HPE Smart Array P408i-p SR Gen10 Controller	3.53	3.53	更新
1863	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c,	firmware-smartarray-f7 c07bdbbd-3.53-1.1.x86_64.rpm	HPE Smart Array E208e-p SR Gen10 Controller	3.53	3.53	更新

	E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10					
1864	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-3.53-1.1.x86_64.rpm	HPE Smart Array E208i-p SR Gen10 Controller	3.53	3.53	更新
1865	Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10	firmware-smartarray-f7c07bdbbd-3.53-1.1.x86_64.rpm	HPE Smart Array E208i-a SR Gen10 Controller	3.53	3.53	更新

6.2.18 Firmware - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1866	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2021.02.01-1.23.x86_64.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1867	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2021.02.01-1.23.x86_64.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1868	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2021.02.01-1.23.x86_64.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1869	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2021.02.01-1.23.x86_64.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1870	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2021.02.01-1.23.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1871	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)	firmware-fc-emulex-2021.02.01-1.23.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1872	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Microsoft Windows Server 2012R2/2016/2019 x64	cp044732.exe	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1873	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Microsoft Windows Server 2012R2/2016/2019 x64	cp044732.exe	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1874	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Microsoft Windows Server 2012R2/2016/2019 x64	cp044732.exe	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1875	HPE Firmware Flash for	cp044732.exe	HPE SN1600E	2021.02.01	12.8.352.12	更新

	Emulex Fibre Channel Host Bus Adapters for Microsoft Windows Server 2012R2/2016/2019 x64		32Gb Single Port Fibre Channel Host Bus Adapter			
1876	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Microsoft Windows Server 2012R2/2016/2019 x64	cp044732.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1877	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Microsoft Windows Server 2012R2/2016/2019 x64	cp044732.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1878	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044728.zip	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1879	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044728.zip	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1880	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044728.zip	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1881	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044728.zip	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1882	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044728.zip	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1883	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044728.zip	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1884	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044729.zip	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1885	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044729.zip	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1886	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044729.zip	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1887	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044729.zip	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1888	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044729.zip	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1889	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044729.zip	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1890	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044730.zip	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新

1891	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044730.zip	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1892	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044730.zip	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1893	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044730.zip	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1894	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044730.zip	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1895	HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044730.zip	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.352.12	更新
1896	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2021.02.01-1.24.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	02.04.07	更新
1897	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2021.02.01-1.24.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	02.04.07	更新
1898	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2021.02.01-1.24.x86_64.rpm	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1899	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2021.02.01-1.24.x86_64.rpm	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1900	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2021.02.01-1.24.x86_64.rpm	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1901	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)	firmware-fc-qlogic-2021.02.01-1.24.x86_64.rpm	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1902	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Microsoft Windows Server 2012R2/2016/2019 (x86_64)	cp044784.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	02.04.07	更新
1903	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Microsoft Windows Server 2012R2/2016/2019 (x86_64)	cp044784.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	02.04.07	更新
1904	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Microsoft Windows Server 2012R2/2016/2019 (x86_64)	cp044784.exe	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1905	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Microsoft Windows Server 2012R2/2016/2019 (x86_64)	cp044784.exe	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1906	HPE Firmware Flash for QLogic Fibre Channel Host	cp044784.exe	HPE SN1600Q 32Gb Dual Port	2021.02.01	01.75.07	更新

	Bus Adapters - Microsoft Windows Server 2012R2/2016/2019 (x86_64)		Fibre Channel Host Bus Adapter			
1907	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Microsoft Windows Server 2012R2/2016/2019 (x86_64)	cp044784.exe	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1908	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044780.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	02.04.07	更新
1909	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044780.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	02.04.07	更新
1910	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044780.zip	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1911	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044780.zip	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1912	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044780.zip	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1913	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5	CP044780.zip	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1914	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044781.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	02.04.07	更新
1915	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044781.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	02.04.07	更新
1916	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044781.zip	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1917	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044781.zip	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1918	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044781.zip	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1919	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7	CP044781.zip	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1920	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044782.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	02.04.07	更新
1921	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044782.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	02.04.07	更新
1922	HPE Firmware Flash for QLogic Fibre Channel Host	CP044782.zip	HPE SN1600Q 32Gb Dual Port	2021.02.01	01.75.07	更新

	Bus Adapters for VMware vSphere 7.0		Fibre Channel Host Bus Adapter			
1923	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044782.zip	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1924	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044782.zip	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新
1925	HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0	CP044782.zip	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	01.75.07	更新

6.2.19 Firmware – System

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1926	Firmware Package - Gen10 NVMe Backplane PIC Firmware	ISS_NVMe_BP_PIC_flashV1B20.fwpkg	NVMe Backplane PIC	1.20	1.20	
1927	Firmware Package - Gen10Plus UBM2 Backplane PIC Firmware	UBM2_V1.16.fwpkg	UBM2 Backplane PIC	1.16	V1.16	新規追加
1928	Online Flash Component for Linux - Gen10 NVMe Backplane PIC Firmware	firmware-nvmebackplane-gen10-1.20-5.1.x86_64.rpm	NVMe Backplane PIC	1.20 (E)	1.20	
1929	Online Flash Component for Linux - Gen10Plus UBM2 Backplane PIC Firmware	firmware-smartarray-40023de47f-1.16-1.1.x86_64.rpm	Gen10Plus_UBM2_Backplane_PIC	1.16	1.16	新規追加
1930	Online Flash Component for Linux - Gen10Plus UBM3 Backplane PIC Firmware	firmware-b249e2e715-1.20-1.1.x86_64.rpm	Gen10Plus_UBM3_Backplane_PIC	1.20	1.20	新規追加
1931	Online Flash Component for Linux - Gen10Plus UBM4 Backplane PIC Firmware	firmware-b368ad032e-1.20-1.1.x86_64.rpm	Gen10Plus_UBM4_Backplane_PIC	1.20	1.20	新規追加
1932	Online Flash Component for VMware Esxi - Gen10Plus UBM2 Backplane PIC Firmware	CP043320.zip	Gen10Plus_UBM2_Backplane_PIC	1.16	1.16	新規追加
1933	Online Flash Component for VMware Esxi - Gen10Plus UBM3 Backplane PIC Firmware	CP045879.zip	Gen10Plus_UBM3_Backplane_PIC	1.20	1.20	新規追加
1934	Online Flash Component for VMware Esxi - Gen10Plus UBM4 Backplane PIC Firmware	CP045880.zip	Gen10Plus_UBM3_Backplane_PIC	1.20	1.20	新規追加
1935	Online Flash Component for Windows x64 - Gen10 NVMe Backplane PIC Firmware	cp037722.exe	NVMe Backplane PIC	1.20 (D)	1.20	
1936	Online Flash Component for Windows x64 - Gen10Plus UBM2 Backplane PIC Firmware	cp041524.exe	Gen10Plus_UBM2_Backplane_PIC	1.16	1.16	新規追加
1937	Online Flash Component for Windows x64 - Gen10Plus UBM3 Backplane PIC Firmware	cp042623.exe	Gen10Plus_UBM3_Backplane_PIC	1.20	1.20	新規追加
1938	Online Flash Component for Windows x64 - Gen10Plus UBM4 Backplane PIC Firmware	cp043315.exe	Gen10Plus_UBM4_Backplane_PIC	1.20	1.20	新規追加
1939	Online Flash for Linux -	firmware-ie-0.2.2.0-1.1.	Innovation Engine	0.2.2.0	0.2.2.0	

	Innovation Engine Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	x86_64.rpm	(IE) Firmware			
1940	Online Flash for Linux - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	firmware-sps-04.01.04.423-1.1.x86_64.rpm	Server Platform Services (SPS) Firmware	04.01.04.423	04.01.04.423	更新
1941	Online Flash for Windows x64 - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	cp045352.exe	Server Platform Services (SPS) Firmware	04.01.04.423	04.01.04.423	更新
1942	Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems	cp045300.exe	Server Platform Services (SPS) Firmware for Intel C242 and C...	05.01.04.208	05.01.04.208	更新
1943	Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems	firmware-u43u44sps-05.01.04.208-1.1.x86_64.rpm	Server Platform Services (SPS) Firmware for Intel C242 and C...	05.01.04.208	05.01.04.208	更新
1944	ROM Flash Firmware Package - Innovation Engine Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	OEM.IEGen10_0.2.2.0.fwpkg	Innovation Engine (IE) Universal Image	0.2.2.0	0.2.2.0	
1945	ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors	OEM.SPSGen10_04.01.04.423.fwpkg	Server Platform Services (SPS) Firmware	04.01.04.423	04.01.04.423	更新
1946	ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems	OEM.DL20ML30Gen10SPS_05.01.04.208.fwpkg	Server Platform Services (SPS) E3 Firmware	05.01.04.208	05.01.04.208	新規追加

6.2.20 Software - Lights-Out Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1947	HPE Lights-Out Online Configuration Utility for Linux (AMD64/EM64T)	hponcfg-5.6.0-0.x86_64.rpm	-	5.6.0-0	5.6.0-0	更新
1948	HPE Lights-Out Online Configuration Utility for Windows x64 Editions	cp046381.exe	-	5.5.0.0 (A)	5.5.0.0 (A)	新規追加

6.2.21 Software - Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1949	HPE Agentless Management Bundle Smart Component on ESXi 7.0	cp046906.zip	-	2021.04.12	701.11.7.1.3-1 OEM.701.0.0. 16555998	更新
1950	HPE CRU Driver Bundle Smart Component for ESXi 7.0	cp044598.zip	-	2020.04.01 (A)	700.10.16-10 EM.700.0.0.1 4828939	
1951	HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 7.0	cp044916.zip	-	2021.04.01	2021.04.01	更新
1952	HPE iLO Driver Bundle Smart Component for ESXi 7.0	cp045983.zip	-	2021.04.01	700.10.7.0.6-1 OEM.700.1.0. 15843807	更新
1953	HPE Management Bundle Smart Component for ESXi 6.5	cp046908.zip	-	2021.04.12	2021.04.12	更新
1954	HPE Management Bundle Smart Component for ESXi 6.7	cp046907.zip	-	2021.04.12	2021.04.12	更新
1955	HPE SMX Provider Bundle Smart Component for ESXi 7.0	cp044591.zip	-	2020.04.01 (A)	700.03.16.00. 12-14828939	
1956	Smart Storage Administrator (SSA) CLI Smart Component for ESXi 7.0	cp046308.zip	-	2021.04.01	5.10.45.0-7.0. 0.15525992.o em	新規追加

6.2.22 Software - Storage Controller

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1957	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp045133.exe	HPE Smart Array P408i-a SR Gen10 Controller	1.2.1.65	1.2.1.65	更新
1958	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp045133.exe	HPE Smart Array P408i-p SR Gen10 Controller	1.2.1.65	1.2.1.65	更新
1959	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp045133.exe	HPE Smart Array P816i-a SR Gen10 Controller	1.2.1.65	1.2.1.65	更新
1960	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp045133.exe	HPE Smart Array E208e-p SR Gen10 Controller	1.2.1.65	1.2.1.65	更新
1961	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp045133.exe	HPE Smart Array E208i-p SR Gen10 Controller	1.2.1.65	1.2.1.65	更新
1962	HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions	cp045133.exe	HPE Smart Array E208i-a SR Gen10 Controller	1.2.1.65	1.2.1.65	更新

6.2.23 Software - Storage Fibre Channel

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
1963	HPE QLogic Fibre Channel driver component for VMware vSphere 6.5	cp044777.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	2.1.101.0-10E M.600.0.0.27 68847	更新
1964	HPE QLogic Fibre Channel driver component for VMware vSphere 6.5	cp044777.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	2.1.101.0-10E M.600.0.0.27 68847	更新
1965	HPE QLogic Fibre Channel driver component for VMware vSphere 6.5	cp044777.zip	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	2.1.101.0-10E M.600.0.0.27 68847	更新
1966	HPE QLogic Fibre Channel driver component for VMware vSphere 6.5	cp044777.zip	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	2.1.101.0-10E M.600.0.0.27 68847	更新
1967	HPE QLogic Fibre Channel driver component for VMware vSphere 6.5	cp044777.zip	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	2.1.101.0-10E M.600.0.0.27 68847	更新
1968	HPE QLogic Fibre Channel driver component for VMware vSphere 6.5	cp044777.zip	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	2.1.101.0-10E M.600.0.0.27 68847	更新
1969	HPE QLogic Fibre Channel driver component for VMware vSphere 6.7	cp044778.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	3.1.46.0-10E M.670.0.0.81 69922	更新
1970	HPE QLogic Fibre Channel driver component for VMware vSphere 6.7	cp044778.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	3.1.46.0-10E M.670.0.0.81 69922	更新
1971	HPE QLogic Fibre Channel driver component for VMware vSphere 6.7	cp044778.zip	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	3.1.46.0-10E M.670.0.0.81 69922	更新
1972	HPE QLogic Fibre Channel driver component for VMware vSphere 6.7	cp044778.zip	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	3.1.46.0-10E M.670.0.0.81 69922	更新
1973	HPE QLogic Fibre Channel driver component for VMware vSphere 6.7	cp044778.zip	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	3.1.46.0-10E M.670.0.0.81 69922	更新
1974	HPE QLogic Fibre Channel driver component for VMware vSphere 6.7	cp044778.zip	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	3.1.46.0-10E M.670.0.0.81 69922	更新
1975	HPE QLogic Fibre Channel driver component for VMware vSphere 7.0	cp044779.zip	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	4.1.22.0-10E M.700.1.0.15 843807	更新
1976	HPE QLogic Fibre Channel driver component for VMware vSphere 7.0	cp044779.zip	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	4.1.22.0-10E M.700.1.0.15 843807	更新
1977	HPE QLogic Fibre Channel driver component for VMware vSphere 7.0	cp044779.zip	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	4.1.22.0-10E M.700.1.0.15 843807	更新
1978	HPE QLogic Fibre Channel driver component for	cp044779.zip	HPE SN1100Q 16Gb Single Port	2021.02.01	4.1.22.0-10E M.700.1.0.15	更新

	VMware vSphere 7.0		Fibre Channel Host Bus Adapter		843807	
1979	HPE QLogic Fibre Channel driver component for VMware vSphere 7.0	cp044779.zip	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	4.1.22.0-10E M.700.1.0.15 843807	更新
1980	HPE QLogic Fibre Channel driver component for VMware vSphere 7.0	cp044779.zip	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	4.1.22.0-10E M.700.1.0.15 843807	更新
1981	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.5	cp044735.zip	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.650.0.0.4 598673	更新
1982	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.5	cp044735.zip	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.650.0.0.4 598673	更新
1983	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.5	cp044735.zip	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.650.0.0.4 598673	更新
1984	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.5	cp044735.zip	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.650.0.0.4 598673	更新
1985	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.5	cp044735.zip	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.650.0.0.4 598673	更新
1986	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.5	cp044735.zip	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.650.0.0.4 598673	更新
1987	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.7	cp044736.zip	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.670.0.0.8 169922	更新
1988	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.7	cp044736.zip	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.670.0.0.8 169922	更新
1989	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.7	cp044736.zip	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.670.0.0.8 169922	更新
1990	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.7	cp044736.zip	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.670.0.0.8 169922	更新
1991	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.7	cp044736.zip	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.670.0.0.8 169922	更新
1992	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.7	cp044736.zip	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.317.0-10 EM.670.0.0.8 169922	更新
1993	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0	cp044737.zip	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	更新
1994	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0	cp044737.zip	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	更新

1995	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0	cp044737.zip	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	更新
1996	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0	cp044737.zip	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	更新
1997	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0	cp044737.zip	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	更新
1998	HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0	cp044737.zip	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	更新
1999	HPE Storage Emulex Fibre Channel NVMe driver component for VMware vSphere 7.0	cp045822.zip	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	新規追加
2000	HPE Storage Emulex Fibre Channel NVMe driver component for VMware vSphere 7.0	cp045822.zip	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	新規追加
2001	HPE Storage Emulex Fibre Channel NVMe driver component for VMware vSphere 7.0	cp045822.zip	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	新規追加
2002	HPE Storage Emulex Fibre Channel NVMe driver component for VMware vSphere 7.0	cp045822.zip	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	新規追加
2003	HPE Storage Emulex Fibre Channel NVMe driver component for VMware vSphere 7.0	cp045822.zip	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	更新
2004	HPE Storage Emulex Fibre Channel NVMe driver component for VMware vSphere 7.0	cp045822.zip	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	2021.02.01	12.8.329.0-10 EM.700.1.0.1 5843807	更新

6.2.24 Software - Storage Fibre Channel HBA

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
2005	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibertools-4.1-1_rhel.x86_64.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2006	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibertools-4.1-1_rhel.x86_64.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2007	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibertools-4.1-1_rhel.x86_64.rpm	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2008	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibertools-4.1-1_rhel.x86_64.rpm	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2009	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibertools-4.1-1_rhel.x86_64.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	

2010	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2011	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2012	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2013	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2014	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2015	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2016	Fibreutils for HPE Storage Fibre Channel Host Bus Adapters for Linux -Red Hat Enterprise Linux (RHEL)	fibreutils-4.1-1_rhel.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	4.1-1 (c)	4.1-1_rhel	
2017	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 7 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel7.x86_64.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7	更新
2018	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 7 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel7.x86_64.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7	更新
2019	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 7 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel7.x86_64.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7	更新
2020	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 7 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel7.x86_64.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7	更新
2021	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 7 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel7.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7	更新
2022	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 7 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel7.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel7	更新

2023	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 8 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel8.x86_64.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8	更新
2024	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 8 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel8.x86_64.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8	更新
2025	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 8 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel8.x86_64.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8	更新
2026	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 8 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel8.x86_64.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8	更新
2027	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 8 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel8.x86_64.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8	更新
2028	HPE Emulex Fibre Channel Enablement Kit for Emulex Host Bus Adapters and Mezzanine Host Bus Adapters for Red Hat Enterprise Linux 8 Server	HPE-CNA-FC-Emulex-Enablement-Kit-12.8.352.11-1.rhel8.x86_64.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.352.11	12.8.352.11-1.rhel8	更新
2029	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvmeffc-connect-12.8.264.0-1.rhel7u8.noarch.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u8	新規追加
2030	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvmeffc-connect-12.8.264.0-1.rhel7u8.noarch.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u8	新規追加
2031	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvmeffc-connect-12.8.264.0-1.rhel7u8.noarch.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u8	新規追加
2032	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvmeffc-connect-12.8.264.0-1.rhel7u8.noarch.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u8	新規追加
2033	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvmeffc-connect-12.8.264.0-1.rhel7u8.noarch.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u8	更新
2034	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvmeffc-connect-12.8.264.0-1.rhel7u8.noarch.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u8	更新
2035	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvmeffc-connect-12.8.264.0-1.rhel7u9.noarch.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u9	新規追加
2036	HPE Emulex NVMe Fibre Channel Enablement Kit for	nvmeffc-connect-12.8.264.0-1.rhel7u9.noarch.rpm	HPE SN1200E 16Gb Single Port	12.8.264.0	12.8.264.0-1.rhel7u9	新規追加

	HPE Emulex Host Bus Adapters for Linux Server	pm	Fibre Channel Host Bus Adapter			
2037	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvme-fc-connect-12.8.2-64.0-1.rhel7u9.noarch.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u9	新規追加
2038	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvme-fc-connect-12.8.2-64.0-1.rhel7u9.noarch.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u9	新規追加
2039	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvme-fc-connect-12.8.2-64.0-1.rhel7u9.noarch.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u9	更新
2040	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvme-fc-connect-12.8.2-64.0-1.rhel7u9.noarch.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.rhel7u9	更新
2041	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvme-fc-connect-12.8.2-64.0-1.sles12sp4.noarch.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.sles12sp4	新規追加
2042	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvme-fc-connect-12.8.2-64.0-1.sles12sp4.noarch.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.sles12sp4	新規追加
2043	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvme-fc-connect-12.8.2-64.0-1.sles12sp4.noarch.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.sles12sp4	新規追加
2044	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvme-fc-connect-12.8.2-64.0-1.sles12sp4.noarch.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.sles12sp4	新規追加
2045	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvme-fc-connect-12.8.2-64.0-1.sles12sp4.noarch.rpm	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.sles12sp4	更新
2046	HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server	nvme-fc-connect-12.8.2-64.0-1.sles12sp4.noarch.rpm	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	12.8.264.0	12.8.264.0-1.sles12sp4	更新
2047	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.0-4 (f)	1.0.0.0-4	
2048	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.0-4 (f)	1.0.0.0-4	
2049	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.0-4 (f)	1.0.0.0-4	
2050	HPE Emulex Smart SAN Enablement Kit for Linux	hpe-emulex-smartsan-enablement-kit-1.0.0.0-4.x86_64.rpm	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.0-4 (f)	1.0.0.0-4	
2051	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 (f)	1.0.0.0-4	
2052	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 (f)	1.0.0.0-4	

2053	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp042255.exe	HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (j)	1.0.0.1 (j)	
2054	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp042255.exe	HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (j)	1.0.0.1 (j)	
2055	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp042255.exe	HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (j)	1.0.0.1 (j)	
2056	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp042255.exe	HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (j)	1.0.0.1 (j)	
2057	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp042255.exe	HPE SN1610E 32Gb 2-port Fibre Channel Host Bus Adapter	1.0.0.1 (j)	1.0.0.1 (j)	
2058	HPE Emulex Smart SAN Enablement Kit for Windows 64 bit operating systems	cp042255.exe	HPE SN1610E 32Gb 1-port Fibre Channel Host Bus Adapter	1.0.0.1 (j)	1.0.0.1 (j)	
2059	HPE QLogic Fibre Channel Enablement Kit for QLogic Host Bus Adapter and Mezzanine Host Bus Adapter for Linux	HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.0-16.noarch.rpm	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	6.0.0.0-16	6.0.0.0-16	更新
2060	HPE QLogic Fibre Channel Enablement Kit for QLogic Host Bus Adapter and Mezzanine Host Bus Adapter for Linux	HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.0-16.noarch.rpm	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	6.0.0.0-16	6.0.0.0-16	更新
2061	HPE QLogic Fibre Channel Enablement Kit for QLogic Host Bus Adapter and Mezzanine Host Bus Adapter for Linux	HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.0-16.noarch.rpm	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	6.0.0.0-16	6.0.0.0-16	更新
2062	HPE QLogic Fibre Channel Enablement Kit for QLogic Host Bus Adapter and Mezzanine Host Bus Adapter for Linux	HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.0-16.noarch.rpm	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	6.0.0.0-16	6.0.0.0-16	更新
2063	HPE QLogic Fibre Channel Enablement Kit for QLogic Host Bus Adapter and Mezzanine Host Bus Adapter for Linux	HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.0-16.noarch.rpm	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	6.0.0.0-16	6.0.0.0-16	更新
2064	HPE QLogic Fibre Channel Enablement Kit for QLogic Host Bus Adapter and Mezzanine Host Bus Adapter for Linux	HPE-CNA-FC-hpeqlgc-Enablement-Kit-6.0.0.0-16.noarch.rpm	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	6.0.0.0-16	6.0.0.0-16	更新
2065	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 (h)	3.3-3	
2066	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 (h)	3.3-3	
2067	HPE QLogic Smart SAN enablement kit for Linux	hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	3.3-3 (h)	3.3-3	

2068	HPE QLogic Smart SAN enablement kit for Linux	hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	3.3-3 (h)	3.3-3	
2069	HPE QLogic Smart SAN enablement kit for Linux	hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	3.3-3 (h)	3.3-3	
2070	HPE QLogic Smart SAN enablement kit for Linux	hpe-qlogic-smartsan-enablement-kit-3.3-3.x86_64.rpm	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	3.3-3 (h)	3.3-3	
2071	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039719.exe	HPE SN1610Q 32Gb 1-port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	
2072	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039719.exe	HPE SN1610Q 32Gb 2-port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	
2073	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039719.exe	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	
2074	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039719.exe	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	
2075	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039719.exe	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	
2076	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp039719.exe	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1 (i)	1.0.0.1 (i)	
2077	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp046397.exe	HPE SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1	1.0.0.1	更新
2078	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp046397.exe	HPE SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1	1.0.0.1	更新
2079	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp046397.exe	HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	1.0.0.1	1.0.0.1	更新
2080	HPE QLogic Smart SAN Enablement Kit for Windows 64 bit operating systems	cp046397.exe	HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	1.0.0.1	1.0.0.1	更新

6.2.25 Software - System Management

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
2081	Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 7 Server	amsd-2.4.1-1571.4.rhel7.x86_64.rpm	-	2.4.1	2.4.1-1571.4.rhel7	更新
2082	Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 8 Server	amsd-2.4.1-1571.8.rhel8.x86_64.rpm	-	2.4.1	2.4.1-1571.8.rhel8	更新
2083	Agentless Management Service for Windows x64	cp046676.exe	-	2.41.0.0	2.41.0.0	更新
2084	NVMe Drive Eject NMI Fix for	cp034635.exe	-	1.1.0.0 (C)	1.1.0.0 (C)	

	Intel Xeon Processor Scalable Family for Windows					
2085	Smart Storage Administrator (SSA) CLI for Linux 64-bit	ssacl-5.10-44.0.x86_64.rpm	-	5.10.44.0	5.10-44.0	更新
2086	Smart Storage Administrator (SSA) CLI for Windows 64-bit	cp041183.exe	-	5.10.44.0	5.10.44.0	更新
2087	Smart Storage Administrator (SSA) for Linux 64-bit	ssa-5.10-44.0.x86_64.rpm	-	5.10.44.0	5.10-44.0	更新
2088	Smart Storage Administrator (SSA) for Windows 64-bit	cp041182.exe	-	5.10.44.0	5.10.44.0	更新
2089	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit	ssaducli-5.10-44.0.x86_64.rpm	-	5.10.44.0	5.10-44.0	更新
2090	Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit	cp041184.exe	-	5.10.44.0	5.10.44.0	更新

6.2.26 Utility - Tools

No.	Description	Package filename	Device	Package Version	Firmware/Driver version	Update
2091	HPE NFS host agent for RedHat Enterprise Linux(RHEL) Server -7/8	HPE-NFC-host-agent-RHEL-1.0-1.x86_64.rpm	-	1.0-1	1.0-1	新規追加
2092	HPE Utilities Bundle Smart Component for ESXi 6.5	cp047035.zip	-	2021.04.02	2021.04.02	更新
2093	HPE Utilities Bundle Smart Component for ESXi 6.7	cp047036.zip	-	2021.04.02	2021.04.02	更新
2094	HPE Utilities Bundle Smart Component for ESXi 7.0	cp045897.zip	-	2021.04.01	2021.04.01	更新

6.3 パッケージの変更内容

Online ROM Flash Component for Linux - OEM System ROM U34

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0587, CVE-2020-0588, CVE-2020-0590, CVE-2020-0591, CVE-2020-0592 and CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS platform code advisories and security vulnerabilities documented as CVE-2020-8738, CVE-2020-8739, CVE-2020-8740, and CVE-2020-8764. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00390. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which addressed an issue where the system may get stuck in a reboot loop during memory training. This issue was introduced with the v2.30 System ROM.
- Addressed an issue where the memory locality of the ACPI SLIT table was not being created properly. In rare cases, the incorrect ACPI SLIT values could cause unexpected impacts to system performance. This issue was introduced in the v2.10 version of the System ROM and was not seen with previous versions of the System ROM.
- Addressed an issue where NVMe Hot-plug and Hot-add would not function properly with VMware. This issue did not impact NVMe Hot-plug or Hot-add with other operating systems.
- Addressed an issue where the system would not properly call out a memory replacement event in the Integrated Management Log (IML) if an uncorrected memory failure occurred during an Advanced Double DRAM Device Correction (ADDDC) sparing operation. This fix only impacts the incorrect logging of these events and does not impact the normal operation of the system in terms of causing uncorrected memory failures or causing any change to the operation of A3DC functionality. This issue only impacts systems configured for fast Fault Tolerant Memory Mode (ADDDC).

- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Online ROM Flash Component for Linux - System ROM U30

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0587, CVE-2020-0588, CVE-2020-0590, CVE-2020-0591, CVE-2020-0592 and CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS platform code advisories and security vulnerabilities documented as CVE-2020-8738, CVE-2020-8739, CVE-2020-8740, and CVE-2020-8764. These security vulnerabilities are documented in

Intel Security Advisory INTEL-SA-00390. These issues are not unique to Hitachi servers.

- This revision of the System ROM includes the latest revision of the Intel Reference Code which addressed an issue where the system may get stuck in a reboot loop during memory training. This issue was introduced with the v2.30 System ROM.
- Addressed an issue where the memory locality of the ACPI SLIT table was not being created properly. In rare cases, the incorrect ACPI SLIT values could cause unexpected impacts to system performance. This issue was introduced in the v2.10 version of the System ROM and was not seen with previous versions of the System ROM.
- Addressed an issue where NVMe Hot-plug and Hot-add would not function properly with VMware. This issue did not impact NVMe Hot-plug or Hot-add with other operating systems.
- Addressed an issue where the system would not properly call out a memory replacement event in the Integrated Management Log (IML) if an uncorrected memory failure occurred during an Advanced Double DRAM Device Correction (ADDDC) sparing operation. This fix only impacts the incorrect logging of these events and does not impact the normal operation of the system in terms of causing uncorrected memory failures or causing any change to the operation of A3DC functionality. This issue only impacts systems configured for fast Fault Tolerant Memory Mode (ADDDC).
- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Online ROM Flash Component for Linux - System ROM U32

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0587, CVE-2020-0588, CVE-2020-0590, CVE-2020-0591, CVE-2020-0592 and CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS platform code advisories and security vulnerabilities documented as CVE-2020-8738, CVE-2020-8739, CVE-2020-8740, and CVE-2020-8764. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00390. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which addressed an issue where the system may get stuck in a reboot loop during memory training. This issue was introduced with the v2.30 System ROM.
- Addressed an issue where the memory locality of the ACPI SLIT table was not being created properly. In rare cases, the incorrect ACPI SLIT values could cause unexpected impacts to system performance. This issue was introduced in the v2.10 version of the System ROM and was not seen with previous versions of the System ROM.
- Addressed an issue where NVMe Hot-plug and Hot-add would not function properly with VMware. This issue did not impact NVMe Hot-plug or Hot-add with other operating systems.
- Addressed an issue where the system would not properly call out a memory replacement event in the Integrated Management Log (IML) if an uncorrected memory failure occurred during an Advanced Double DRAM Device Correction (ADDDC) sparing operation. This fix only impacts the incorrect logging of these events and does not impact the normal operation of the system in terms of causing uncorrected memory failures or causing any change to the operation of A3DC functionality. This issue only impacts systems configured for fast Fault Tolerant Memory Mode (ADDDC).
- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a

DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.

- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Online ROM Flash Component for Linux - System ROM U41

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0587, CVE-2020-0588, CVE-2020-0590, CVE-2020-0591, CVE-2020-0592 and CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS platform code advisories and security vulnerabilities documented as CVE-2020-8738, CVE-2020-8739, CVE-2020-8740, and CVE-2020-8764. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00390. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which addressed an issue where the system may get stuck in a reboot loop during memory training. This issue was introduced with the v2.30 System ROM.
- Addressed an issue where the memory locality of the ACPI SLIT table was not being created properly. In rare cases, the incorrect ACPI SLIT values could cause unexpected impacts to system performance. This

issue was introduced in the v2.10 version of the System ROM and was not seen with previous versions of the System ROM.

- Addressed an issue where NVMe Hot-plug and Hot-add would not function properly with VMware. This issue did not impact NVMe Hot-plug or Hot-add with other operating systems.
- Addressed an issue where the system would not properly call out a memory replacement event in the Integrated Management Log (IML) if an uncorrected memory failure occurred during an Advanced Double DRAM Device Correction (ADDDC) sparing operation. This fix only impacts the incorrect logging of these events and does not impact the normal operation of the system in terms of causing uncorrected memory failures or causing any change to the operation of A3DC functionality. This issue only impacts systems configured for fast Fault Tolerant Memory Mode (ADDDC).
- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Online ROM Flash Component for Linux - System ROM U43

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696, CVE-2020-8694 and CVE-2020-8695. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00381 and INTEL-SA-00389. The Intel microcode patches included in this release are version 0x000000DE (CPUIDs 906ED, 906EC, 906EB and 906EA). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides

mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.

Enhancements/New Features:

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Online ROM Flash Component for Linux - System ROM U44

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696, CVE-2020-8694 and CVE-2020-8695. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00381 and INTEL-SA-00389. The Intel microcode patches included in this release are version 0x000000DE (CPUIDs 906ED, 906EC, 906EB and 906EA). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.

Enhancements/New Features:

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform

Configuration options.

Online ROM Flash Component for Windows x64 - OEM System ROM U34

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0587, CVE-2020-0588, CVE-2020-0590, CVE-2020-0591, CVE-2020-0592 and CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS platform code advisories and security vulnerabilities documented as CVE-2020-8738, CVE-2020-8739, CVE-2020-8740, and CVE-2020-8764. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00390. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which addressed an issue where the system may get stuck in a reboot loop during memory training. This issue was introduced with the v2.30 System ROM.
- Addressed an issue where the memory locality of the ACPI SLIT table was not being created properly. In rare cases, the incorrect ACPI SLIT values could cause unexpected impacts to system performance. This issue was introduced in the v2.10 version of the System ROM and was not seen with previous versions of the System ROM.
- Addressed an issue where NVMe Hot-plug and Hot-add would not function properly with VMware. This issue did not impact NVMe Hot-plug or Hot-add with other operating systems.
- Addressed an issue where the system would not properly call out a memory replacement event in the Integrated Management Log (IML) if an uncorrected memory failure occurred during an Advanced Double DRAM Device Correction (ADDDC) sparing operation. This fix only impacts the incorrect logging of these events and does not impact the normal operation of the system in terms of causing uncorrected memory failures or causing any change to the operation of A3DC functionality. This issue only impacts

systems configured for fast Fault Tolerant Memory Mode (ADDDC).

- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Online ROM Flash Component for Windows x64 - System ROM U30

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0587, CVE-2020-0588, CVE-2020-0590, CVE-2020-0591, CVE-2020-0592 and CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides

mitigations for BIOS platform code advisories and security vulnerabilities documented as CVE-2020-8738, CVE-2020-8739, CVE-2020-8740, and CVE-2020-8764. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00390. These issues are not unique to Hitachi servers.

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- Addressed an issue where the memory locality of the ACPI SLIT table was not being created properly. In rare cases, the incorrect ACPI SLIT values could cause unexpected impacts to system performance. This issue was introduced in the v2.10 version of the System ROM and was not seen with previous versions of the System ROM.
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- Addressed an issue where the system would not properly call out a memory replacement event in the Integrated Management Log (IML) if an uncorrected memory failure occurred during an Advanced Double DRAM Device Correction (ADDDC) sparing operation. This fix only impacts the incorrect logging of these events and does not impact the normal operation of the system in terms of causing uncorrected memory failures or causing any change to the operation of A3DC functionality. This issue only impacts systems configured for fast Fault Tolerant Memory Mode (ADDDC).
- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Online ROM Flash Component for Windows x64 - System ROM U32

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
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- Addressed an issue where the system would not properly call out a memory replacement event in the Integrated Management Log (IML) if an uncorrected memory failure occurred during an Advanced Double DRAM Device Correction (ADDDC) sparing operation. This fix only impacts the incorrect logging of these events and does not impact the normal operation of the system in terms of causing uncorrected memory failures or causing any change to the operation of A3DC functionality. This issue only impacts systems configured for fast Fault Tolerant Memory Mode (ADDDC).
- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a

DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.

- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Online ROM Flash Component for Windows x64 - System ROM U41

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
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- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Online ROM Flash Component for Windows x64 - System ROM U43

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696, CVE-2020-8694 and CVE-2020-8695. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00381 and INTEL-SA-00389. The Intel microcode patches included in this release are version 0x000000DE (CPUIDs 906ED, 906EC, 906EB and 906EA). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides

mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.

Enhancements/New Features:

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
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- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Online ROM Flash Component for Windows x64 - System ROM U44

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696, CVE-2020-8694 and CVE-2020-8695. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00381 and INTEL-SA-00389. The Intel microcode patches included in this release are version 0x000000DE (CPUIDs 906ED, 906EC, 906EB and 906EA). These issues are not unique to Hitachi servers.
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- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

ROM Flash Firmware Package - System ROM U30

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
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memory failures or causing any change to the operation of A3DC functionality. This issue only impacts systems configured for fast Fault Tolerant Memory Mode (ADDDC).

- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

ROM Flash Firmware Package - System ROM U32

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0587, CVE-2020-0588, CVE-2020-0590, CVE-2020-0591, CVE-2020-0592 and CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.

- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS platform code advisories and security vulnerabilities documented as CVE-2020-8738, CVE-2020-8739, CVE-2020-8740, and CVE-2020-8764. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00390. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which addressed an issue where the system may get stuck in a reboot loop during memory training. This issue was introduced with the v2.30 System ROM.
- Addressed an issue where the memory locality of the ACPI SLIT table was not being created properly. In rare cases, the incorrect ACPI SLIT values could cause unexpected impacts to system performance. This issue was introduced in the v2.10 version of the System ROM and was not seen with previous versions of the System ROM.
- Addressed an issue where NVMe Hot-plug and Hot-add would not function properly with VMware. This issue did not impact NVMe Hot-plug or Hot-add with other operating systems.
- Addressed an issue where the system would not properly call out a memory replacement event in the Integrated Management Log (IML) if an uncorrected memory failure occurred during an Advanced Double DRAM Device Correction (ADDDC) sparing operation. This fix only impacts the incorrect logging of these events and does not impact the normal operation of the system in terms of causing uncorrected memory failures or causing any change to the operation of A3DC functionality. This issue only impacts systems configured for fast Fault Tolerant Memory Mode (ADDDC).
- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

ROM Flash Firmware Package - System ROM U34

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version

IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0587, CVE-2020-0588, CVE-2020-0590, CVE-2020-0591, CVE-2020-0592 and CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS platform code advisories and security vulnerabilities documented as CVE-2020-8738, CVE-2020-8739, CVE-2020-8740, and CVE-2020-8764. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00390. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which addressed an issue where the system may get stuck in a reboot loop during memory training. This issue was introduced with the v2.30 System ROM.
- Addressed an issue where the memory locality of the ACPI SLIT table was not being created properly. In rare cases, the incorrect ACPI SLIT values could cause unexpected impacts to system performance. This issue was introduced in the v2.10 version of the System ROM and was not seen with previous versions of the System ROM.
- Addressed an issue where NVMe Hot-plug and Hot-add would not function properly with VMware. This issue did not impact NVMe Hot-plug or Hot-add with other operating systems.
- Addressed an issue where the system would not properly call out a memory replacement event in the Integrated Management Log (IML) if an uncorrected memory failure occurred during an Advanced Double DRAM Device Correction (ADDDC) sparing operation. This fix only impacts the incorrect logging of these events and does not impact the normal operation of the system in terms of causing uncorrected memory failures or causing any change to the operation of A3DC functionality. This issue only impacts systems configured for fast Fault Tolerant Memory Mode (ADDDC).
- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks.

When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.

- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

ROM Flash Firmware Package - System ROM U41

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This version of the system ROM includes updates to the Intel Memory Reference Code which may help improve memory stability for systems configured with two DIMMs per channel. Please consult Intel sighting documentation for more details on the improvements included in the Intel IPU.2.2020 release. This issue is not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-0381. The Intel microcode patches included in this release are version 0x02006A08 (CPUID 50654), 0x04003003 (CPUID 50656) and 0x05003003 (CPUID 50567). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0587, CVE-2020-0588, CVE-2020-0590, CVE-2020-0591, CVE-2020-0592 and CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS platform code advisories and security vulnerabilities documented as CVE-2020-8738, CVE-2020-8739, CVE-2020-8740, and CVE-2020-8764. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00390. These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which addressed an issue where the system may get stuck in a reboot loop during memory training. This issue was introduced with the v2.30 System ROM.
- Addressed an issue where the memory locality of the ACPI SLIT table was not being created properly. In

rare cases, the incorrect ACPI SLIT values could cause unexpected impacts to system performance. This issue was introduced in the v2.10 version of the System ROM and was not seen with previous versions of the System ROM.

- Addressed an issue where NVMe Hot-plug and Hot-add would not function properly with VMware. This issue did not impact NVMe Hot-plug or Hot-add with other operating systems.
- Addressed an issue where the system would not properly call out a memory replacement event in the Integrated Management Log (IML) if an uncorrected memory failure occurred during an Advanced Double DRAM Device Correction (ADDDC) sparing operation. This fix only impacts the incorrect logging of these events and does not impact the normal operation of the system in terms of causing uncorrected memory failures or causing any change to the operation of A3DC functionality. This issue only impacts systems configured for fast Fault Tolerant Memory Mode (ADDDC).
- Addressed an issue where the BIOS/Platform Configuration (RBSU) option for the Extended Memory Test could be automatically disabled after a system reboot. This issue was introduced with the v2.30 System ROM and was not seen with earlier version of the System ROM..

Enhancements

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the System ROM to allow for an increased amount of 64-bit Memory Mapped I/O available for third party options cards.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

ROM Flash Firmware Package - System ROM U43

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696, CVE-2020-8694 and CVE-2020-8695. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00381 and INTEL-SA-00389. The Intel microcode patches included in this release are version 0x000000DE (CPUIDs 906ED, 906EC, 906EB and 906EA). These issues are not unique to Hitachi servers.

- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.

Enhancements/New Features:

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.
- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

ROM Flash Firmware Package - System ROM U44

Important Note!

- This version of the System ROM contains updates aligned with the Intel Product Update (IPU) version IPU.2020.2 guidance.

Problems Fixed:

- This revision of the System ROM includes the latest revision of the Intel microcode which provides mitigations for security vulnerabilities documented as CVE-2020-8696, CVE-2020-8694 and CVE-2020-8695. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00381 and INTEL-SA-00389. The Intel microcode patches included in this release are version 0x000000DE (CPUIDs 906ED, 906EC, 906EB and 906EA). These issues are not unique to Hitachi servers.
- This revision of the System ROM includes the latest revision of the Intel Reference Code which provides mitigations for BIOS advisories and security vulnerabilities documented as CVE-2020-0593. These security vulnerabilities are documented in Intel Security Advisory INTEL-SA-00358. These issues are not unique to Hitachi servers.

Enhancements/New Features:

- Added a new BIOS/Platform Configuration (RBSU) option to Memory Options called Refresh Watermarks. When selecting the Low Watermark setting, the memory controller will help reduce susceptibility to a DDR4 RowHammer attack. It is expected that a memory performance impact will be seen when enabling the Low Watermark setting. The default operation of the system has not changed and customers wanting to provide additional RowHammer protection should enable this setting.
- Added support to BIOS/Platform Configuration (RBSU) to allow importing and exporting Secure Boot signature lists as a signed binary file. This is useful to import the Microsoft revocation list binary file into

the Secure Boot DBX as found on the UEFI forum at <https://uefi.org/revocationlistfile>.

- Updated the RESTful API HPE BIOS Attribute Registry resources to match the latest BIOS/Platform Configuration options.

Integrated Smart Update Tools for Linux x64

Version: 2.8.0.0 (Recommended)

Important Note!

Please note the following:

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

If an earlier version of SUM is used, SUT will notify the user that SUM 8.0.0 and later is required.

SUT uses the iLO RESTful Tool to communicate with iLO. iLO RESTful Tool is included with the SUT component and is installed as part of the SUT installation process. If an earlier version of the iLO RESTful Tool is already installed on a server, the iLO RESTful Tool provided with SUT will be upgraded on the server. SUT will service HPE ProLiant Gen8 and later versions and requires iLO 4 firmware version 2.51 or later. For Gen10 and above we need iLO 5 firmware version 1.11 or later. Smart Update Tools requires iLO Advanced Pack license.

Prerequisites

For prerequisite information, please see the SUT Release Notes.

Fixes

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

Enhancements

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

Integrated Smart Update Tools for Windows x64

Version: 2.8.0.0 (Recommended)

Important Note!

Please note the following:

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

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SUT uses the iLO RESTful Tool to communicate with iLO. iLO RESTful Tool is included with the SUT component and is installed as part of the SUT installation process. If an earlier version of the iLO RESTful Tool is already installed on a server, the iLO RESTful Tool provided with SUT will be upgraded on the server. SUT will service HPE ProLiant Gen8 and later versions and requires iLO 4 firmware version 2.51 or later. For Gen10 and above we need iLO 5 firmware version 1.11 or later. Smart Update Tools requires iLO Advanced Pack license.

Prerequisites

For prerequisite information, please see the SUT Release Notes.

Fixes

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

Enhancements

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

Identifiers for Intel Xeon Scalable Processors (First and Second Generation) for Windows

Version: 10.1.18435.8224 (Optional)

Enhancements

Add support for Intel devices 201A, 201C, and 206F

Add support for Superdome Flex 280

HPE Broadcom NetXtreme-E Driver for Windows Server 2016

Version: 218.0.32.0 (Optional)

Important Note!

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 218.0.166000 or later, for use with this driver.

Fixes

This product correct an Wake-on-LAN (WoL) function unavailable.

This product correct an issue which fixes VF will not load on certain Virtual OS when Windows is host OS.

This product correct an issue which fixes user mode RDMA blue screen of death (BSoD) caused by an IRP SystemBuffer access race condition

This product corrects a Windows Stop Error blue screen of death (BSoD) seen when uninstalling the NDIS driver.

Supported Devices and Features

This product supports the following network adapters:

HPE Broadcom NetXtreme-E Driver for Windows Server 2019

Version: 218.0.32.0 (Optional)

Important Note!

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 218.0.166000 or later, for use with this driver.

Fixes

This product correct an issue where an system are freeze and reboot when system recovering after non-fatal error.

This product correct an issue which fixes BSOD observed after updating the inbox driver on Windows 2019.

This product correct an issue which fixes VF will not load on certain Virtual OS when Windows is host OS.

This product correct an issue which fixes user mode RDMA blue screen of death (BSoD) caused by an IRP SystemBuffer access race condition

This product corrects a Windows Stop Error blue screen of death (BSoD) seen when uninstalling the NDIS driver.

Supported Devices and Features

This product supports the following network adapters:

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7

Version: 1.10.2-218.0.67.0 (Optional)

Important Note!

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 218.0.138000 or later, for use with this driver.

Fixes

This product addresses an issue where system crashed on doing driver unload load in loop when running broadcast traffic

This product addresses an issue where bnxt_en module crashes with NULL pointer dereference before ifup(bring up network interface)

This product addresses an issue where kernel panic after PCIe AER(Advanced Error Reporting) device recovery successful

This product addresses an issue where bnxt_en crashes with NULL pointer dereference when enabling SRIOV

This product correct an error where ethtool -S tx_bytes and rx_bytes counter values far exceed actual values

This product correct an error message when querying hwmon temperature on VF via sysfs

Enhancements

This product now supports Red Hat Enterprise Linux 7 update 9

This product now supports PAM4 speeds information in ethtool tools

Supported Devices and Features

This product supports the following network adapters:

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

Version: 1.10.2-218.0.67.0 (Optional)

Important Note!

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 218.0.166000 or later, for use with

this driver.

Fixes

This product addresses an issue where system crashed on doing driver unload load in loop when running broadcast traffic

This product addresses an issue where bnxt_en module crashes with NULL pointer dereference before ifup(bring up network interface)

This product addresses an issue where kernel panic after PCIe AER(Advanced Error Reporting) device recovery successful

This product addresses an issue where bnxt_en crashes with NULL pointer dereference when enabling SRIOV

This product correct an error where ethtool -S tx_bytes and rx_bytes counter values far exceed actual values

This product correct an error message when querying hwmon temperature on VF via sysfs

Enhancements

This product now supports Red Hat Enterprise Linux 8 update 2 and Red Hat Enterprise Linux 8 update 3

This product now supports PAM4 speeds information in ethtool tools

Supported Devices and Features

This product supports the following network adapters:

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.5

Version: 2021.04.05 (Optional)

Important Note!

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

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 218.0.166000 or later, for use with this driver.

Fixes

This product corrects an issue which Purple Screen Of Death (PSOD) while running Virtual SAN (vSAN) over Remote Direct Memory Access (RDMA) traffic due to invalid Completion Queue Element (CQEs)

Supported Devices and Features

This product supports the following network adapters:

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 6.7

Version: 2021.04.05 (Optional)

Important Note!

This component is intended to be used by HPE applications. It is a zip file that contains the same driver

deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CP0xxxxx.xml file.

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 218.0.166000 or later, for use with this driver.

Fixes

This product corrects an issue which Purple Screen Of Death (PSOD) while running Virtual SAN (vSAN) over Remote Direct Memory Access (RDMA) traffic due to invalid Completion Queue Element (CQEs)

Supported Devices and Features

This product supports the following network adapters:

HPE Broadcom NetXtreme-E Drivers for VMware vSphere 7.0

Version: 2021.04.05 (Optional)

Important Note!

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

HPE recommends the HPE Broadcom NetXtreme-E Firmware Version, 218.0.166000 or later, for use with this driver.

Fixes

This product corrects an issue which Purple Screen Of Death (PSOD) while running Virtual SAN (vSAN) over Remote Direct Memory Access (RDMA) traffic due to invalid Completion Queue Element (CQEs)

Supported Devices and Features

This product supports the following network adapters:

HPE Broadcom NetXtreme-E RoCE Library for Red Hat Enterprise Linux 7 Update 8

Version: 218.0.7.0 (Optional)

Prerequisites

HPE Broadcom NetXtreme-E Drivers for Red Hat Enterprise Linux 7, version 1.10.2-218.0.65.0 or later, must be installed before installing this product.

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

Fixes

This product now supports rdma-core v29(rdma user space application)

Supported Devices and Features

This product supports the following network adapters:

HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions

Version: 214.0.0.6 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Fixes

This product correct an issue which fixes Windows driver causes NMI/RSOD during OS shutdown.

Supported Devices and Features

This driver supports the following network adapters:

HPE Ethernet 1Gb 4-port 331i Adapter (22BE)

HPE Ethernet 1Gb 4-port 331FLR Adapter

HPE Ethernet 1Gb 4-port 331T Adapter

HPE Ethernet 1Gb 2-port 332i Adapter (22E8)

HPE Ethernet 1Gb 2-port 332T Adapter

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 3.139b-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64, version 2.27.0 or later, for use with these drivers.

Fixes

The products fixes an a race condition issue where driver will still try to access the PHY(physical layer) although it was already brought down when the tg3 timer fires

Enhancements

This product now supports Red Hat Enterprise Linux 7 update 9

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 1Gb 4-port 331i Adapter (22BE)

HPE Ethernet 1Gb 4-port 331FLR Adapter

HPE Ethernet 1Gb 4-port 331T Adapter

HPE Ethernet 1Gb 2-port 332i Adapter (22E8)

HPE Ethernet 1Gb 2-port 332T Adapter

HPE Broadcom tg3 Ethernet Drivers for Red Hat Enterprise Linux 8

Version: 3.139b-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE NX1 Broadcom Online Firmware Upgrade Utility for Linux x86_64, version 2.27.0 or later, for use with these drivers.

Fixes

The products fixes an a race condition issue where driver will still try to access the PHY(physical layer) although it was already brought down when the tg3 timer fires

Enhancements

This product now supports Red Hat Enterprise Linux 8 update 2 and Red Hat Enterprise Linux 8 update 3

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 1Gb 4-port 331i Adapter (22BE)

HPE Ethernet 1Gb 4-port 331FLR Adapter

HPE Ethernet 1Gb 4-port 331T Adapter

HPE Ethernet 1Gb 2-port 332i Adapter (22E8)

HPE Ethernet 1Gb 2-port 332T Adapter

HPE Intel E1R Driver for Windows Server 2012 R2

Version: 12.14.8.5 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Enhancements

This product contains Windows system update supported improvements.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

HP Ethernet 1Gb 2-port 361T Adapter

HP Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Intel E1R Driver for Windows Server 2016

Version: 12.16.3.1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Enhancements

This product contains Windows system update supported improvements.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Intel E1R Driver for Windows Server 2019

Version: 12.18.11.1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Enhancements

This product contains Windows system update supported improvements.

Supported Devices and Features

This driver supports the following HPE Intel E1R network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Intel i40e Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 2.13.10-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.21.0 or later, for use with these drivers.

Fixes

This product addresses an issue where server hungs after loading XDP(eXpress Data Path) program in case of LLDP(Link Layer Discovery Protocol) agent disabled

This product addresses an issue where it is not possible to change MAC(Media Access Control) address on VF(Virtual Function) from VM(Virtual Machine) when VF is in trusted mode

This product addresses an issue where it cannot create VF(Virtual Function) VLAN(Virtual Local Area Network) interface inside a namespace

This product addresses an issue where system crash during removing driver when VSI(Virtual Station Interface) is in reset recovery mode

This product addresses an issue where VF(Virtual Function) receives unicast packets from other VF

This product addresses an issue where using Intel nvmupdate utility never ending update

This product addresses an issue where kernel crash in vf driver(iavf) reset when pf driver(i40e) is removing

Enhancements

This product now supports Red Hat Enterprise Linux 7 update 9

This product supports new feature called software DCB(Data Center Bridging) which allows using DCB without firmware LLDP(Link Layer Discovery Protocol) agent being turned on.

This product supports new feature which allows user to specify VLAN(Virtual Local Area Network) field and add it to flow director via ethtool

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel i40e Drivers for Red Hat Enterprise Linux 8

Version: 2.13.10-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.21.0 or later, for use with these drivers.

Fixes

This product addresses an issue where server hungs after loading XDP(eXpress Data Path) program in case of LLDP(Link Layer Discovery Protocol) agent disabled

This product addresses an issue where it is not possible to change MAC(Media Access Control) address on VF(Virtual Function) from VM(Virtual Machine) when VF is in trusted mode

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This product addresses an issue where VF(Virtual Function) receives unicast packets from other VF

This product addresses an issue where using Intel nvmupdate utility never ending update

This product addresses an issue where kernel crash in vf driver(iavf) reset when pf driver(i40e) is removing

Enhancements

This product now supports Red Hat Enterprise Linux 8 update 2 and Red Hat Enterprise Linux 8 update 3

This product supports new feature called software DCB(Data Center Bridging) which allows using DCB without firmware LLDP(Link Layer Discovery Protocol) agent being turned on.

This product supports new feature which allows user to specify VLAN(Virtual Local Area Network) field and add it to flow director via ethtool

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel i40ea Driver for Windows Server 2012 R2

Version: 1.13.104.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Fixes

This product corrects an traffic packets making cert failure seen when packets transferred to VLAN after RDMA function enabled.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel i40ea Driver for Windows Server 2016

Version: 1.13.104.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Fixes

This product corrects an traffic packets making cert failure seen when packets transferred to VLAN after RDMA function enabled.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel i40ea Driver for Windows Server 2019

Version: 1.13.104.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Fixes

This product corrects an traffic packets making cert failure seen when packets transferred to VLAN after RDMA function enabled.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel i40eb Driver for Windows Server 2012 R2

Version: 1.13.104.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Fixes

This product corrects an traffic packets making cert failure seen when packets transferred to VLAN after RDMA function enabled.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Intel i40eb Driver for Windows Server 2016

Version: 1.13.104.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Fixes

This product corrects an traffic packets making cert failure seen when packets transferred to VLAN after RDMA function enabled.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Intel i40eb Driver for Windows Server 2019

Version: 1.13.104.0 (Optional)

Important Note!

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

x64 Editions, version 5.2.4.0 or later, for use with this driver.

Fixes

This product corrects an traffic packets making cert failure seen when packets transferred to VLAN after RDMA function enabled.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Intel i40en Driver for VMware vSphere 6.7

Version: 2021.04.05 (Optional)

Important Note!

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

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.14.0 or later, for use with this driver.

Fixes

This product corrects an issue obtain PCI addresses information when execution intnet CLI tools.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel iavf Driver for Windows Server 2012 R2

Version: 1.12.9.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version 1.13.104.0 or later.

Enhancements

This product is updated to maintain compatibility with updated Windows installation library iavfmsg.dll.

Supported Devices and Features

This product supports the following HPE Intel i40ea network adapters:

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

This product supports the following HPE Intel i40eb network adapters:

HPE Intel iavf Driver for Windows Server 2016

Version: 1.12.9.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version 1.13.104.0 or later.

Enhancements

This product is updated to maintain compatibility with updated Windows installation library iavfmsg.dll.

Supported Devices and Features

This product supports the following HPE Intel i40ea network adapters:

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

This product supports the following HPE Intel i40eb network adapters:

HPE Intel iavf Driver for Windows Server 2019

Version: 1.12.9.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version 1.13.104.0 or later.

Enhancements

This product is updated to maintain compatibility with updated Windows installation library iavfmsg.dll.

Supported Devices and Features

This product supports the following HPE Intel i40ea network adapters:

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

This product supports the following HPE Intel i40eb network adapters:

HPE Intel iavf Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 4.0.2-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.21.0 or later, for use with these drivers.

Enhancements

This product now supports Red Hat Enterprise Linux 7 update 9

This product now supports the following servers:

HPE Superdome Flex 280

HPE Superdome Flex Server

HPE Superdome Flex 2

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel iavf Drivers for Red Hat Enterprise Linux 8

Version: 4.0.2-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.21.0 or later, for use with these drivers.

Enhancements

This product now supports Red Hat Enterprise Linux 8 update 2 and Red Hat Enterprise Linux 8 update 3

This product now supports the following servers:

HPE Superdome Flex 280

HPE Superdome Flex Server

HPE Superdome Flex 2

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel igb Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 6.2.5-1 (Optional)

Enhancements

This product now support HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version (or later) to update firmware

This product now supports Red Hat Enterprise Linux 7 update 9

Supported Devices and Features

These drivers support the following Intel network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Intel igb Drivers for Red Hat Enterprise Linux 8

Version: 6.2.5-1 (Optional)

Enhancements

This product now support HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version (or later) to update firmware

This product now supports Red Hat Enterprise Linux 8 update 2 and Red Hat Enterprise Linux 8 update 3

Supported Devices and Features

These drivers support the following Intel network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Intel igbn Driver for VMware vSphere 6.5

Version: 2021.04.05 (Optional)

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 CPOxxxxx.xml file.

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.14.0 or later, for use with this driver.

Fixes

This product corrects an issue which handling duplex value passed of ESXi command.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Intel igbn Driver for VMware vSphere 6.7

Version: 2021.04.05 (Optional)

Important Note!

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

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.14.0 or later, for use with this driver.

Fixes

This product corrects an issue which handling duplex value passed of ESXi command.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Intel igbn Driver for VMware vSphere 7.0

Version: 2021.04.05 (Optional)

Important Note!

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

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for VMware, version 3.14.0 or later, for use with this driver.

Fixes

This product corrects an issue which handling duplex value passed of ESXi command.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 5.9.4-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.21.0 or later, for use with these drivers.

Enhancements

This product now supports Red Hat Enterprise Linux 7 update 9

This product enhances reliability via adding support for new mailbox communication between PF(Physical Function) and VF(Virtual Function) and remove its potential flaws that may lead to the undefined or faulty behavior

This product enhances compatibility where new mailbox api implementation is also compatible with old drivers

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ixgbe Drivers for Red Hat Enterprise Linux 8

Version: 5.9.4-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.21.0 or later, for use with these drivers.

Enhancements

This product now supports Red Hat Enterprise Linux 8 update 2 and Red Hat Enterprise Linux 8 update 3

This product enhances reliability via adding support for new mailbox communication between PF(Physical Function) and VF(Virtual Function) and remove its potential flaws that may lead to the undefined or faulty behavior

This product enhances compatibility where new mailbox api implementation is also compatible with old drivers

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 4.9.3-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.21.0 or later, for use with these drivers.

Enhancements

This product now supports Red Hat Enterprise Linux 7 update 9

This product enhances reliability via adding support for new mailbox communication between PF(Physical Function) and VF(Virtual Function) and remove its potential flaws that may lead to the undefined or faulty behavior

This product enhances compatibility where new mailbox api implementation is also compatible with old drivers

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ixgbev Drivers for Red Hat Enterprise Linux 8

Version: 4.9.3-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Linux x86_64, version 1.21.0 or later, for use with these drivers.

Enhancements

This product now supports Red Hat Enterprise Linux 8 update 2 and Red Hat Enterprise Linux 8 update 3
This product enhances reliability via adding support for new mailbox communication between PF(Physical Function) and VF(Virtual Function) and remove its potential flaws that may lead to the undefined or faulty behavior

This product enhances compatibility where new mailbox api implementation is also compatible with old drivers

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ixS Driver for Windows Server 2012 R2

Version: 3.14.222.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Enhancements

This product contains Windows system update supported improvements.

Supported Devices and Features

This driver supports the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ix3 Driver for Windows Server 2016

Version: 4.1.219.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Enhancements

This product contains Windows system update supported improvements.

Supported Devices and Features

This driver supports the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel ix3 Driver for Windows Server 2019

Version: 4.1.219.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Enhancements

This product contains Windows system update supported improvements.

Supported Devices and Features

This driver supports the following network adapters:

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel vx3 Driver for Windows Server 2012 R2

Version: 1.2.199.0 (B) (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version 3.14.214.0 or later.

Enhancements

This product now supports the following the network adapters:

Supported Devices and Features

This component supports the following HPE Intel ix3 network adapters:

This component supports the following HPE Intel ixt network adapters:

HPE Intel vxn Driver for Windows Server 2016

Version: 2.1.192.0 (B) (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version 4.1.199.0 or later.

Enhancements

This product now supports the following the network adapters:

Supported Devices and Features

This component supports the following HPE Intel ixn network adapters:

This component supports the following HPE Intel ixt network adapters:

HPE Intel vxn Driver for Windows Server 2019

Version: 2.1.191.0 (B) (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version 4.1.179.0 or later.

Enhancements

This product now supports the following the network adapters:

Supported Devices and Features

This component supports the following HPE Intel ixn network adapters:

This component supports the following HPE Intel ixt network adapters:

HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2012 R2

Version: 2.60.23957.0 (Optional)

Fixes

This product addresses a Windows Stop Error (BSOD) seen when running Mellanox NdStat Utility (mlx5cmd -ndstat) while ND connections was closing.

This product corrects driver loading failures seen due to incorrect INF file.

This product correct an issue where the vSwitch unavailable to assign on WS2012R2.

Supported Devices and Features

This driver supports the following network adapters:

HPE Ethernet 25Gb 2-port 640SFP28 Adapter

HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter

HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter

HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2016

Version: 2.60.23957.0 (Optional)

Fixes

This product addresses a Windows Stop Error (BSOD) seen when running Mellanox NdStat Utility (mlx5cmd -ndstat) while ND connections was closing.

This product corrects driver loading failures seen due to incorrect INF file.

Supported Devices and Features

This driver supports the following network adapters:

HPE Ethernet 25Gb 2-port 640SFP28 Adapter

HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter

HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter

HPE Mellanox CX4LX and CX5 Driver for Microsoft Windows Server 2019

Version: 2.60.23957.0 (Optional)

Fixes

This product addresses a Windows Stop Error (BSOD) seen when running Mellanox NdStat Utility (mlx5cmd -ndstat) while ND connections was closing.

This product corrects driver loading failures seen due to incorrect INF file.

Supported Devices and Features

This driver supports the following network adapters:

HPE Ethernet 25Gb 2-port 640SFP28 Adapter

HPE Ethernet 25Gb 2-port 640 FLR-SFP28 Adapter

HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter

HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 7 Update 8 (x86_64)

Version: 4.16 (Recommended)

Fixes

MFT prerequisite RPMs for Mellanox adapter firmware update in Secure Boot mode.

Enhancements

MFT prerequisite RPMs for Mellanox adapter firmware update in Secure Boot mode.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 7 Update 8 (x86_64) supported by this binary rpm are:
3.10.0-1127.el7 - (x86_64) and future update kernels.

HPE Mellanox MFT Driver and Firmware Tools for Red Hat Enterprise Linux 8 Update 2 (x86_64)

Version: 4.16 (Recommended)

Fixes

MFT prerequisite RPMs for Mellanox adapter firmware update in Secure Boot mode.

Enhancements

MFT prerequisite RPMs for Mellanox adapter firmware update in Secure Boot mode.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 8 update 2 (x86_64) supported by this binary rpm are:
4.18.0-147.el8 - (x86_64) and future update kernels.

HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 7 Update 8 (x86_64)

Version: 5.2 (Recommended)

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation for HPE Mellanox adapters. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install MLNX-OFED drivers from "Mellanox OFED VPI Drivers and Utilities" Linux Software Delivery Repository (http://downloads.linux.hpe.com/SDR/repo/mlnx_ofed/).

Prerequisites

Following packages must be installed from the respective OS distributions prior to installing the driver component:

Python version 2.7

Fixes

The following issues have been fixed in version 5.2:

Clearing min_rate on all SR-IOV legacy VFs after setting min_rate to at least one of the VFs did not disable QoS min_rate.

An empty /usr/src/mlnx-ofa_kernel/default is now no longer created.

An issue where installing packages through a repository failed after generation of metapackages using --add-kernel-support. The failure occurred due to excessive and incorrect Obsolete headers in those metapackages. Enabled installation of mlnx-ofa_kernel package to /bin/python3 instead of /

usr/bin/python3 on RHEL 8.x systems.

All IPoIB offload packets were wrongly counted as rx_csum_complete. These packets are now identified as rx_csum_unnecessary packets.

mlx5dv_dr_rule_destroy segmentation fault could happen in rare cases with multiple rules on the same matcher with a different number of actions. This could happen after reusing an already deleted rule memory with less actions.

An issue of moving to SwitchDev mode after configuring DSCP (Differentiated Service Code Point).

Global traffic class configuration did not take effect on DC QPs (Dynamically Connected Queue Pairs).

ib_send_bw traffic frequently dropped to zero when RDMA CM was used, because of incorrect min_rnr_timer setting on the responder side. The min_rnr_timer setting is now aligned with the setting in non-RDMA CM cases.

Traffic did not pass over VFs with VST QinQ feature is enabled.

When traffic was sent over Geneve VLAN with Tx VLAN offload enabled and TSO (TCP Segmentation Offload) or Tx csum enabled, traffic could be dropped and not sent to the wire.

An issue that caused the firmware to restart upon installing mlnxofed-dpdk-upstream-libs package manually.

Bad utility paths in rdma-core "dracut" hooks on SLES systems, which used to result in the following errors when running "dracut" with the "--add rdma" option. dracut-install:

```
ERROR: installing '/usr/libexec/mlx4-setup.sh' dracut: /usr/lib/dracut/dracut-install -D /var/tmp/dracut.UdCOSJ/ initramfs /usr/libexec/mlx4-setup.sh dracut-install: ERROR: installing '/usr/libexec/rdma-set-sriov-vf' dracut: /usr/lib/dracut/dracut-install -D /var/tmp/dracut.UdCOSJ/ initramfs /usr/libexec/rdma-set-sriov-vf
```

Traffic class value was not updated in DCT when set via sysfs.

A doorbell loss issue on AMD platforms with Secure Memory Encryption (SME).

Registering memory using mlx5dv_devx_umem_reg while forking. Without this fix, applications which use fork() or similar syscalls while using a memory registered with umem_reg could hang due to incorrect physical page mapping. This fix requires setting the IBV_FORK_SAFE environment variable.

When unbinding the device resulted in the following message being printed to the dmesg: "failed to disable DC tracer"

Content of file /sys/class/net//statistics/ multicast might have been out of date and might have displayed values lower than the real values.

ERSPAN (Encapsulated Remote SPAN) protocol was available only when turning off Tx checksum offload.

A udev script issue which caused non-mellanox devices to be renamed.

Missing representor statistics when using ifconfig.

Fixed wrong value of skb mark of received packets on representors.

An issue which caused second port representors to be named as first port representors.

Enhancements

Changes and new features in HPE Mellanox RoCE driver version 5.2:

For ConnectX-5 Adapters and above:

Added support for the following features:

CQE compression support for Rx multi-strides packets.

Configuring QoS on a single QP or on a group of QPs.

Encap/decap hardware offload of IPv4 traffic over MPLS-over-UDP. This can be used in networks with MPLS routers to achieve more efficient routing.

Connection tracking rules on VFs to forward traffic from one VF to the other.

Offloading sFlow sampling rules.

For ConnectX-5 Adapters and ConnectX-6 Dx Adapters:

Added support for the following features:

A locking mechanism to enable parallel insertion of rules into the software steering using the `mlx5dv_dr` API. The parallel insertion improves the insertion rate and takes place when adding Rx and Tx rules via the FDB domain.

Option to match `mlx5dv_dr` API on Geneve tunnel using a dynamic flex parser. The option header consists of class, type, length and data. The parser should be configured using `devx` command, after which a rule can be created to match on parser ID and data.

Geneve tunneling offload, including matching on extension header.

Parallel insertion and deletion of offloaded rules using multiple OVS threads.

For ConnectX-6 Dx Adapters:

Added support for the following features:

[Beta] Modify GTP-U TEID. This support requires flex parser configuration.

[Beta] Improved performance of OVS Connection Tracking flows by enabling the merge of the multi-table flow matches and actions into one joint flow.

For ConnectX-6 Dx Adapters and above:

Added support for the following features:

Transmitted packet timestamping accuracy can be improved when using a timestamp generated at the port level instead of a timestamp generated upon CQE creation. Tx port time-stamping better reflects the actual time of a packet's transmission. This feature is disabled by default. The feature can be enabled or disabled using the following command. `ethtool --set-priv-flags tx_port_ts on / off`.

Offloading tunnel rules when the source interface is VF (in addition to uplink) in the Hypervisor.

Using Mirroring Offload with Connection Tracking.

ASO flow meter using the `mlx5dv_dr` API, which allows for monitoring the packet rate for specific flows.

When a packet hits a flow that is connected to a flow meter, the rate of packets through this meter is evaluated, and the packet is marked with a color copied into one of the C registers, according to the current rate compared to the reference rate.

ASO first hit using the `mlx5dv_dr` API, which allows for tracking rule hits by packets. When a packet hits a rule with the ASO first hit action, a flag is set indicating this event, and the original value of the flag is copied to one of the C registers.

`mlx5dv_dr` API support for matching on a new field "gtpu_first_ext_dw_0". This field enables packet filtering based on the GTP-U first extension header (first dword only). To enable parsing of tunnel GTP-U extension header, run the following command. `./cloud_fw_reset.py FLEX_PARSER_PROFILE_ENABLE=3`.

For ConnectX-6 Lx Adapters and above:

Added support for the following features:

IPsec full offload support for extended sequence number, replay protection window and lifetime packet limit.

For All HCA's:

Added support for the following features:

New query GID API that allows for querying a single GID entry by its port and GID index, or querying for all GID tables of a specific device. This API works over `ioctl` instead of `sysfs`, which accelerates the querying process.

Performing multi-host firmware reset in order to upgrade the device firmware. Firmware reset loads the new firmware in case it was burnt on the flash and was pending activation, and reload.

[Alpha] Firmware live patching in the driver. Live patching updates the firmware without the need to perform firmware reset. However, it can only be applied in scenarios where the difference between the current and new firmware versions are minor, which is decided upon by the firmware itself.

`devlink` tool for performing firmware reset in order to upgrade the device firmware. Firmware reset loads the new firmware in case it was burnt on the flash and was pending activation, and reloads the current firmware image from the flash in case no new firmware was pending. For further information, please refer to the `devlink` man page.

A resiliency mechanism for the driver to manually poll the command event queue (EQ) in case of a command timeout. In case the resiliency mechanism finds unhandled event queue entry (EQE) due to a lost interrupt, the driver will handle it, after which the command interface returns to a healthy state.

Setting a sniffer private flag is deprecated and no longer required. In order to capture offloaded/RoCE traffic, `tcpdump` can now be run on the RDMA device.

Added per-port reporters to `devlink` health to manage per-port health activities. Users can now access the `devlink` port reporters by specifying the port index in addition to the device `devlink` name through the `devlink` health commands API. This update was first introduced in `iproute2` v5.8. As part of this feature, `mlx5e` Tx and Rx reporters are now redefined as `devlink` port reporters. For examples, please see `devlink-health` manpage

Optimized memory consumption of memory registration in huge page systems. As an example, in a 2MB huge page system, 600 MB would be saved for 100 GB memory registration.

`mlx5dv` API to modify the configured UDP source port for RoCE packets of a given RC/UC QP when QP is in RTS state.

Accelerating Tx datapath by saving PCI bandwidth and CPU utilization. The savings are achieved by aggregating multiple packets into a single WQE. The feature is driven by `xmit_more` for certain traffic types, such as UDP.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 7 Update 8 (x86_64) supported by this binary rpm are:

3.10.0-1127.el7 - (x86_64) and future update kernels.

HPE Mellanox RoCE (RDMA over Converged Ethernet) Driver for Mellanox ConnectX-4, ConnectX-5 and ConnectX-6 Adapters for Red Hat Enterprise Linux 8 Update 2 (x86_64)

Version: 5.2 (Recommended)

Important Note!

Mellanox Ethernet + RoCE Linux driver (mlnx-ofa_kernel RPMs) supports only Ethernet mode of operation for HPE Mellanox adapters. For customers requiring complete InfiniBand functionality or "InfiniBand + Ethernet" modes of operation on the same node, install MLNX-OFED drivers from "Mellanox OFED VPI Drivers and Utilities" Linux Software Delivery Repository (https://downloads.linux.hpe.com/SDR/project/mlnx_ofed/).

Prerequisites

Following packages must be installed from the respective OS distributions prior to installing the driver component:

Python version 2.7

Fixes

The following issues have been fixed in version 5.2:

Clearing min_rate on all SR-IOV legacy VFs after setting min_rate to at least one of the VFs did not disable QoS min_rate.

An empty /usr/src/mlnx-ofa_kernel/default is now no longer created.

An issue where installing packages through a repository failed after generation of metapackages using --add-kernel-support. The failure occurred due to excessive and incorrect Obsolete headers in those metapackages. Enabled installation of mlnx-ofa_kernel package to /bin/python3 instead of /usr/bin/python3 on RHEL 8.x systems.

All IPoIB offload packets were wrongly counted as rx_csum_complete. These packets are now identified as rx_csum_unnecessary packets.

mlx5dv_dr_rule_destroy segmentation fault could happen in rare cases with multiple rules on the same matcher with a different number of actions. This could happen after reusing an already deleted rule memory with less actions.

An issue of moving to SwitchDev mode after configuring DSCP (Differentiated Service Code Point).

Global traffic class configuration did not take effect on DC QPs (Dynamically Connected Queue Pairs).

ib_send_bw traffic frequently dropped to zero when RDMA CM was used, because of incorrect min_rnr_timer setting on the responder side. The min_rnr_timer setting is now aligned with the setting in non-RDMA CM cases.

Traffic did not pass over VFs with VST QinQ feature is enabled.

When traffic was sent over Geneve VLAN with Tx VLAN offload enabled and TSO (TCP Segmentation Offload) or Tx csum enabled, traffic could be dropped and not sent to the wire.

An issue that caused the firmware to restart upon installing mlnxofed-dpdk-upstream-libs package manually.

Bad utility paths in rdma-core "dracut" hooks on SLES systems, which used to result in the following errors when running "dracut" with the "--add rdma" option. dracut-install:

ERROR: installing '/usr/libexec/mlx4-setup.sh' dracut: /usr/lib/dracut/dracut-install -D /var/tmp/dracut.UdCOSJ/ initramfs /usr/libexec/mlx4-setup.sh dracut-install: ERROR: installing '/usr/libexec/rdma-set-sriov-vf' dracut: /usr/lib/dracut/dracut-install -D /var/tmp/dracut.UdCOSJ/ initramfs /usr/libexec/rdma-set-sriov-vf

Traffic class value was not updated in DCT when set via sysfs.

A doorbell loss issue on AMD platforms with Secure Memory Encryption (SME).

Registering memory using mlx5dv_devx_umem_reg while forking. Without this fix, applications which use fork() or similar syscalls while using a memory registered with umem_reg could hang due to incorrect physical page mapping. This fix requires setting the IBV_FORK_SAFE environment variable.

When unbinding the device resulted in the following message being printed to the dmesg: "failed to disable DC tracer"

Content of file /sys/class/net//statistics/ multicast might have been out of date and might have displayed values lower than the real values.

ERSPAN (Encapsulated Remote SPAN) protocol was available only when turning off Tx checksum offload.

A udev script issue which caused non-mellanox devices to be renamed.

Missing representor statistics when using ifconfig.

Fixed wrong value of skb mark of received packets on representors.

An issue which caused second port representors to be named as first port representors.

Enhancements

Changes and new features in HPE Mellanox RoCE driver version 5.2:

For ConnectX-5 Adapters and above:

Added support for the following features:

CQE compression support for Rx multi-strides packets.

Configuring QoS on a single QP or on a group of QPs.

Encap/decap hardware offload of IPv4 traffic over MPLS-over-UDP. This can be used in networks with MPLS routers to achieve more efficient routing.

Connection tracking rules on VFs to forward traffic from one VF to the other.

Offloading sFlow sampling rules.

For ConnectX-5 Adapters and ConnectX-6 Dx Adapters:

Added support for the following features:

A locking mechanism to enable parallel insertion of rules into the software steering using the mlx5dv_dr API. The parallel insertion improves the insertion rate and takes place when adding Rx and Tx rules via the FDB domain.

Option to match mlx5dv_dr API on Geneve tunnel using a dynamic flex parser. The option header consists of class, type, length and data. The parser should be configured using devx command, after which a rule can be created to match on parser ID and data.

Geneve tunneling offload, including matching on extension header.

Parallel insertion and deletion of offloaded rules using multiple OVS threads.

For ConnectX-6 Dx Adapters:

Added support for the following features:

[Beta] Modify GTP-U TEID. This support requires flex parser configuration.

[Beta] Improved performance of OVS Connection Tracking flows by enabling the merge of the multi-table flow matches and actions into one joint flow.

For ConnectX-6 Dx Adapters and above:

Added support for the following features:

Transmitted packet timestamping accuracy can be improved when using a timestamp generated at the port level instead of a timestamp generated upon CQE creation. Tx port time-stamping better reflects the actual time of a packet's transmission. This feature is disabled by default. The feature can be enabled or disabled using the following command. `ethtool --set-priv-flags tx_port_ts on / off`.

Offloading tunnel rules when the source interface is VF (in addition to uplink) in the Hypervisor.

Using Mirroring Offload with Connection Tracking.

ASO flow meter using the `mlx5dv_dr` API, which allows for monitoring the packet rate for specific flows.

When a packet hits a flow that is connected to a flow meter, the rate of packets through this meter is evaluated, and the packet is marked with a color copied into one of the C registers, according to the current rate compared to the reference rate.

ASO first hit using the `mlx5dv_dr` API, which allows for tracking rule hits by packets. When a packet hits a rule with the ASO first hit action, a flag is set indicating this event, and the original value of the flag is copied to one of the C registers.

`mlx5dv_dr` API support for matching on a new field "`gtpu_first_ext_dw_0`". This field enables packet filtering based on the GTP-U first extension header (first dword only). To enable parsing of tunnel GTP-U extension header, run the following command. `./cloud_fw_reset.py FLEX_PARSER_PROFILE_ENABLE=3`.

For ConnectX-6 Lx Adapters and above:

Added support for the following features:

IPsec full offload support for extended sequence number, replay protection window and lifetime packet limit.

For All HCA's:

Added support for the following features:

New query GID API that allows for querying a single GID entry by its port and GID index, or querying for all GID tables of a specific device. This API works over `ioctl` instead of `sysfs`, which accelerates the querying process.

Performing multi-host firmware reset in order to upgrade the device firmware. Firmware reset loads the new firmware in case it was burnt on the flash and was pending activation, and reload.

[Alpha] Firmware live patching in the driver. Live patching updates the firmware without the need to perform firmware reset. However, it can only be applied in scenarios where the difference between the current and new firmware versions are minor, which is decided upon by the firmware itself.

`devlink` tool for performing firmware reset in order to upgrade the device firmware. Firmware reset loads the new firmware in case it was burnt on the flash and was pending activation, and reloads the current firmware image from the flash in case no new firmware was pending. For further information, please refer to the `devlink` man page.

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lost interrupt, the driver will handle it, after which the command interface returns to a healthy state. Setting a sniffer private flag is deprecated and no longer required. In order to capture offloaded/RoCE traffic, tcpdump can now be run on the RDMA device.

Added per-port reporters to devlink health to manage per-port health activities. Users can now access the devlink port reporters by specifying the port index in addition to the device devlink name through the devlink health commands API. This update was first introduced in iproute2 v5.8. As part of this feature, mlx5e Tx and Rx reporters are now redefined as devlink port reporters. For examples, please see devlink-health manpage

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Accelerating Tx datapath by saving PCI bandwidth and CPU utilization. The savings are achieved by aggregating multiple packets into a single WQE. The feature is driven by xmit_more for certain traffic types, such as UDP.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux 8 update 2(x86_64) supported by this binary rpm are:
4.18.0-193.el8 - (x86_64) and future update kernels.

HPE QLogic FastLinQ 10/25/50 GbE Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 8.55.5.0-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE QLogic FastLinQ Online Firmware Upgrade Utility for Linux x86_64, version 1.10.0 or later, for use with these drivers.

Fixes

This product corrects an issue where the driver fails to load in NPAR mode when RoCE Data Center Quantized Congestion Notification (DCQCN) is enabled.

This product corrects an issue ethernet data rate limiting unable on VFs.

This product addresses a system crash seen when injecting a fw_assert on a NIC PF.

This product addresses a system crash seen when limiting number of MSI-X interrupt vectors as requested for VFs

This product addresses a system crash seen when unloading and reloading the RoCE driver only.

This product addresses a system crash seen running burnin and iperf stress in Red Hat Enterprise Linux 7 update 9 environment

This product addresses a system crash seen during multiple reboots of virtual machines using VFs and RDMA.

This product addresses a the connection recover failed with heavy traffic

Enhancements

This product now supports Red Hat Enterprise Linux 7 update 9

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 521T Adapter

HPE QLogic FastLinQ 10/25/50 GbE Drivers for Red Hat Enterprise Linux 8

Version: 8.55.5.0-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE QLogic FastLinQ Online Firmware Upgrade Utility for Linux x86_64, version 1.10.0 or later, for use with these drivers.

Fixes

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This product addresses a system crash seen when unloading and reloading the RoCE driver only.

This product addresses a system crash seen during multiple reboots of virtual machines using VFs and RDMA.

This product addresses a the connection recover failed with heavy traffic

Enhancements

This product now supports Red Hat Enterprise Linux 8 update 3 and 8 update 2

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 521T Adapter

HPE QLogic FastLinQ 10/25/50 GbE Drivers for Windows Server x64 Editions

Version: 8.55.5.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE QLogic FastLinQ Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with these drivers.

Fixes

This product correct an Wake-on-LAN (WoL) function unavailable.

This product correct high CPU usage with Virtual Machine Multiple Queues (VMMQ).

This product addresses a BSOD seen when using the netsh utility to configure global RSS.

This product correct an issue which fixes BSOD in case of NicSwitch and send NBL has vport id which exceeds max vports capability.

This product addresses a Windows Stop Error (BSOD) seen where an SR-IOV virtual function to assign while installing driver.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 521T Adapter

HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 6.5

Version: 2021.04.05 (Optional)

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.hp.com webpages, plus an HPE specific CPOxxxxx.xml file.

HPE recommends the firmware provided in HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware, version 4.13.0 or later, for use with this driver.

Fixes

This product corrects an issue runs out of MSI-X interrupt vectors caused what Purple Screen of Death (PSOD)

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 521T Adapter

HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 6.7

Version: 2021.04.05 (Optional)

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.hp.com webpages, plus an HPE specific CPOxxxxx.xml file.

HPE recommends the firmware provided in HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware, version 4.13.0 or later, for use with this driver.

Fixes

This product addresses a Purple Screen Of Death (PSOD) seen on systems operating in a complicated VLAN environment.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 521T Adapter

HPE QLogic FastLinQ 10/25/50 GbE Multifunction Driver for VMware vSphere 7.0

Version: 2021.04.05 (Optional)

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.hp.com webpages, plus an HPE specific CPOxxxxx.xml file.

HPE recommends the firmware provided in HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware, version 4.13.0 or later, for use with this driver.

Fixes

This product addresses a Purple Screen Of Death (PSOD) seen on systems operating in a complicated VLAN environment.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 521T Adapter

HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.5

Version: 2021.04.05 (Optional)

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.hp.com webpages, plus an HPE specific CPOxxxxx.xml file.

HPE recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for VMware, version 1.28.0 or later, for use with this driver.

Fixes

This product corrects an incorrect MTU value displayed by the ESXCLI tool.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 530T Adapter

HPE Ethernet 10Gb 2-port 530SFP+ Adapter

HPE FlexFabric 10Gb 2-port 533FLR-T Adapter

HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 6.7

Version: 2021.04.05 (Optional)

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.hp.com webpages, plus an HPE specific CPOxxxxx.xml file.

HPE recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for VMware, version 1.28.0 or later, for use with this driver.

Fixes

This product addresses a Purple Screen Of Death (PSOD) seen during traffic scheduling.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 530T Adapter

HPE Ethernet 10Gb 2-port 530SFP+ Adapter

HPE FlexFabric 10Gb 2-port 533FLR-T Adapter

HPE QLogic NX2 10/20 GbE Multifunction Driver for VMware vSphere 7.0

Version: 2021.04.05 (Optional)

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.hp.com webpages, plus an HPE specific CPOxxxx.xml file.

HPE recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for VMware, version 1.28.0 or later, for use with this driver.

Fixes

This product addresses a Purple Screen Of Death (PSOD) seen during traffic scheduling.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 530T Adapter

HPE Ethernet 10Gb 2-port 530SFP+ Adapter

HPE FlexFabric 10Gb 2-port 533FLR-T Adapter

HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 7 x86_64

Version: 7.14.76-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64, version 2.28.0 or later, for use with these drivers.

Fixes

This product corrects an issue obtain Medium Dependent Interface(MDI) and Medium Dependent Interface Crossover (MDIX) information when execution ethtool tools

Enhancements

This product now supports Red Hat Enterprise Linux 7 Update 9.

Supported Devices and Features

These drivers support the following network adapters:

HPE Ethernet 10Gb 2-port 530SFP+ Adapter

HPE Ethernet 10Gb 2-port 530T Adapter

HPE QLogic NX2 10/20 GbE Multifunction Drivers for Red Hat Enterprise Linux 8

Version: 7.14.76-1 (Optional)

Important Note!

HPE recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64, version 2.28.0 or later, for use with these drivers.

Fixes

This product corrects an issue obtain Medium Dependent Interface(MDI) and Medium Dependent Interface Crossover (MDIX) information when execution ethtool tools

Enhancements

This product now supports Red Hat Enterprise Linux 8, Updates 2 and 3.

Supported Devices and Features

These drivers support the following network adapters:

HP Ethernet 10Gb 2-port 530SFP+ Adapter

HP Ethernet 10Gb 2-port 530T Adapter

HP Ethernet 10Gb 2-port 533FLR-T Adapter

HPE QLogic NX2 10/20 GbE Multifunction Drivers for Windows Server x64 Editions

Version: 7.13.196.0 (Optional)

Important Note!

HP recommends the firmware provided in HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with these drivers.

Fixes

This product correct an issue where the vSwitch unavailable to assign on WS2012R2.

This product correct an issue which fixes One time system crash seen while uninstalling NDIS driver

This product addresses an issue where an SR-IOV virtual function can't to start normally.

Supported Devices and Features

This driver supports the following network adapters:

HP Ethernet 10Gb 2-port 530SFP+ Adapter

HP Ethernet 10Gb 2-port 530T Adapter

HP Ethernet 10Gb 2-port 533FLR-T Adapter

Intel i40ea Driver for Windows Server 2016

Version: 1.13.104.0 (Optional)

Important Note!

HPE recommends the firmware provided in Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Fixes

This product corrects an traffic packets making cert failure seen when packets transferred to VLAN after RDMA function enabled.

Supported Devices and Features

This driver supports the following HPE Intel I40EA network adapters:

Intel i40ea Driver for Windows Server 2019

Version: 1.13.104.0 (Optional)

Important Note!

HPE recommends the firmware provided in Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Fixes

This product corrects an traffic packets making cert failure seen when packets transferred to VLAN after RDMA function enabled.

Supported Devices and Features

This driver supports the following HPE Intel I40EA network adapters:

Intel X710-DA2 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE

Intel X710-DA2 Ethernet 10Gb 2-port SFP+ Adapter for HPE

Intel iavf Driver for Windows Server 2016

Version: 1.12.9.0 (Optional)

Important Note!

HPE recommends the firmware provided in Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version 1.0.80.0 or later.

Enhancements

This product is updated to maintain compatibility with updated Windows installation library iavfmsg.dll.

Supported Devices and Features

This product supports the following Intel VF 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 iavf Driver for Windows Server 2019

Version: 1.12.9.0 (Optional)

Important Note!

HPE recommends the firmware provided in HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions, version 5.2.4.0 or later, for use with this driver.

Prerequisites

This driver requires host driver version 1.0.80.0 or later.

Enhancements

This product is updated to maintain compatibility with updated Windows installation library iavfmsg.dll.

Supported Devices and Features

This product supports the following Intel VFnetwork 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

net-mst kernel module driver component for VMware ESXi 6.5 and 6.7

Version: 2020.11.11 (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 HPE vibsdepot.hpe.com webpage, plus an HPE specific CPXXXX.xml file.

Prerequisites

NA

Enhancements

NMST version 4.12.0.105:

This version adds support for the following adapters:

Supported Devices and Features

HPE Part Number
764282-B21

764283-B21
764284-B21
P24837-B21
P11338-B21
764285-B21
764286-B21
825110-B21
825111-B21
872726-B21
879482-B21
868779-B21
779793-B21
779799-B21
817749-B21
817753-B21
P21927-B21
P10112-B21
P13188-B21
P11341-B21
P21930-B21
874253-B21
P25960-B21
P06154-B21
P06250-B21
P06251-B21
P23664-B21
P23665-B21
P23666-B21
P10180-B21
P31246-B21
P31323-B21
P31348-B21
P31324-B21

net-mst kernel module driver component for VMware ESXi 7.0

Version: 2020.11.11 (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 HPE vibsdepot.hpe.com webpage, plus an HPE specific CPXXXX.xml file.

Prerequisites

NA

Fixes

NMST version 4.14.3.3

Supported Devices and Features

HPE Part Number

764282-B21

764283-B21

764284-B21

P24837-B21

P11338-B21

764285-B21

764286-B21

825110-B21

825111-B21

872726-B21

879482-B21

868779-B21

779793-B21

779799-B21

817749-B21

817753-B21

P21927-B21

P10112-B21

P13188-B21

P11341-B21

P21930-B21

874253-B21

P25960-B21

P06154-B21

P06250-B21

P06251-B21

P23664-B21

P23665-B21

P23666-B21

P10180-B21

P31246-B21

P31323-B21

P31348-B21

P31324-B21

nmlx5_en Driver Component for VMware 6.5

Version: 2020.11.11 (Recommended)

Important Note!

Known Issues in version 4.16.70.1:

The maximum number of established active RDMA connections (QPs) is currently 5000.

Setting ETS value to 0 may cause WQE timeout.

ECN tunable parameter initialAlphaValue for the Reaction Point protocol cannot be modified.

ECN statistic counters accumulatorsPeriod and ecnMarkedRoce-Packets display wrong values and cannot be cleared.

The hardware can offload only up to 256 Bytes of headers.

The "esxcli network sriovnic vf stats" command is not supported.

Traffic cannot be sent between PV and SR-IOV VF connected to different ports on the same HCA.

Setting the "Allow Guest MTU Change" option in vSphere Client is currently not functional. Although guest MTU changes in SR-IOV are allowed, they do not affect the port's MTU and the guest's MTU remains the same as the PF MTU.

Geneve options length support is limited to 56 Bytes. Received packets with options length bigger than 56 Bytes are dropped.

Interaction with ConnectX-4/ConnectX-4 Lx older firmware versions might result in the following internal firmware errors:

Device health compromised

synd 0x1: firmware internal error

extSync 0x94ee

The 'esxcli mellanox uplink link info -u <vmnic_name>' command reports the 'Auto negotiation' capability always as 'true'.

Wake-on-LAN does not notify when invalid parameters are provided.

Nested ESXi might not function properly.

Device RSS fails to hash traffic to sufficient RX rings with Broadcast traffic.

In stress condition 'Watchdog' may appear leading to link going up and down.

VGT traffic over VXLAN interfaces is currently not supported.

SMP MADs (ibnetdiscover, sminfo, iblinkinfo, smpdump, ibqueryerr, ibdiagnet and smpquery) are not supported on the VFs.

Although the max_vfs module parameter range is "0-128", due to firmware limitations, the following are the supported VFs per single port:

ConnectX-4: up to 127

ConnectX-5: up to 63

Fixes

The following issues have been fixed in version in 4.16.70.1:

o The "esxcli network sriovnic vf stats" command was not supported. When running this command on a vmknic, a failure message was displayed.

Enhancements

Changes and New Features in smart component version 2020.11.11:

Added support for the following adapters:

New features and changes in version 4.16.70.1:

An event will be sent to notify the administrator if the power required by the network adapter is higher than that available on the PCIe slot.

Support for trusting Differentiated Services Code Point (DSCP) and setting default value for RoCE traffic.

A new counter that enables the user to query per Virtual Function counters.

RX out-of-buffer counter to indicate any lack of software receive buffers.

Module parameter to enforce specific RoCE version.

Supported Devices and Features

HPE Part Number

825110-B21

825111-B21

872726-B21

879482-B21

868779-B21

P11338-B21

817749-B21

817753-B21

P24837-B21

874253-B21

P06154-B21

P06250-B21

P06251-B21

P10180-B21

nmlx5_en Driver Component for VMware 6.7

Version: 2020.11.11 (Recommended)

Important Note!

Known Issues in version 4.17.70.1:

ECN tunable parameter initialAlphaValue for the Reaction Point protocol cannot be modified.

SRI-OV is not supported while ENS is enabled.

The maximum number of established active RDMA connections (QPs) is currently 5000.

Enhanced Network Stack(ENS) is currently not supported in ConnectX-6 Dx adapter cards.

Setting ETS value to 0 may cause WQE timeout.

A PSOD may occur during vMotion over ENS VMK.

During ENS uplink detachment from the ENS DVS, the below error message regarding the queue still being allocated or that the requested queue is not in use may appear.

Live unload of the driver is not supported. Doing so may cause a PSOD if the `max_vfs` parameter is set. ECN statistic counters `accumulatorsPeriod` and `ecnMarkedRoce-Packets` display wrong values and cannot be cleared.

The maximum value of RSS must be lower than the number of CPU cores.

The hardware can offload only up to 256B of headers.

The `"esxcli network sriovnic vf stats"` command is not supported. When running this command on a `vmknic`, a failure message is displayed.

There is no traffic between PV and SR-IOV VF connected to different ports on the same HCA.

Setting the "Allow Guest MTU Change" option in vSphere Client is currently not functional. Although guest MTU changes in SR-IOV are allowed, they do not affect the port's MTU and the guest's MTU remains the same as the PF MTU.

When a guest is assigned an IB PCI passthru device or an IB VF, VMware Tools networking information for the guest may be incorrect. This affects how the guest networking information, such as interfaces and their IPs, is displayed in vCenter.

Operations on vmnics which are in passthru mode are not supported.

The `'esxcli mellanox uplink link info -u <vmnic_name>'` command reports the 'Auto negotiation' capability always as 'true'.

SMP MADs (`ibnetdiscover`, `sminfo`, `iblinkinfo`, `smpdump`, `ibqueryerr`, `ibdiagnet` and `smpquery`) are not supported on the VFs.

Wake-on-LAN does not notify when invalid parameters are provided.

Nested ESXi might not function properly.

Device RSS fails to hash traffic to sufficient RX rings with Broadcast traffic.

In stress condition 'Watchdog' may appear, leading to uplink going up and down.

During ENS uplink detachment from the ENS DVS, the below error message regarding the queue still being allocated or that the requested queue is not in use may appear. "Driver covers for OS issue and the messages are for information only."

Although the `max_vfs` module parameter range is "0-128", due to firmware limitations, the following are the supported VFs per single port devices:

ConnectX-4: up to 127

ConnectX-5: up to 127

For further information on the release notes for ESXi 6.7 Driver Version 4.17.70.1 follow the below link:

https://www.mellanox.com/page/products_dyn?product_family=29&mtag=vmware_driver

Fixes

The following issues have been fixed in version in 4.17.70.1:

- o The `"esxcli network sriovnic vf stats"` command was not supported. When running this command on a `"vmknic"`, a failure message was displayed.
- o IPv6 as inner packet was not supported.

Enhancements

Changes and New Features in smart component version 2020.11.11:

Added support for the following adapters:

New features and changes in version 4.17.70.1:

- o Disabled the option of shutting down the link due to power limitation.
- o Support for trusting Differentiated Services Code Point (DSCP) and setting default value for RoCE traffic.
- o New counter that enables the user to query per Virtual Function counters.
- o RX out-of-buffer counter to indicate any lack of software receive buffers.
- o Module parameter to enforce specific RoCE version.

Supported Devices and Features

HPE Part Number

825110-B21

825111-B21

872726-B21

879482-B21

868779-B21

P11338-B21

817749-B21

817753-B21

P24837-B21

874253-B21

P06154-B21

P06250-B21

P06251-B21

P10180-B21

nmlx5_en Driver Component for VMware 7.0

Version: 2020.11.11 (Recommended)

Important Note!

Known Issues in version 4.19.70.1:

SR-IOV is not supported while ENS is enabled.

Live unload of the driver is not supported. Doing so may cause a PSOD if the max_vfs parameter is set.

The maximum number of established active RDMA connections (QPs) is currently 5000.

ENS is currently not supported in ConnectX-6 Dx adapter cards.

Workaround: Use non ENS DVS for ConnectX-6 Dx cards.

Setting ETS value to 0 may cause WQE timeout.

Workaround: Set ETS value of 1 instead of 0.

The 'esxcli mellanox uplink link info -u <vmnic_name>' command reports the 'Auto negotiation' capability always as 'true'.

SMP MADs (ibnetdiscover, sminfo, iblinkinfo, smpdump, ibqueryerr, ibdiagnet and smpquery) are not supported on the VFs.

Although the max_vfs module parameter range is "0-128", due to firmware limitations, the following are the supported VFs per single port devices:

ConnectX-4 / ConnectX-5: up to 127

Enhancements

Changes and New Features are included in smart component version 2020.11.11:

Added support for the following adapters:

New features and changes in version 4.19.70.1:

- o Disabled the option of shutting down the link due to power limitation.
- o Support for trusting Differentiated Services Code Point (DSCP) and setting default value for RoCE traffic.
- o New counter that enables the user to query per Virtual Function counters.
- o RX out-of-buffer counter to indicate any lack of software receive buffers.
- o support for Data Center Bridging Capability Exchange (DCBx) protocol.DCBx works with LLDP to allow switches to exchange information about their Data Center Bridging (DCB) capabilities and configuration and automatically negotiate common Priority-Based Flow Control (PFC) parameters.
- o Module parameter to enforce specific RoCE version.
- o Support for setting the minimal bandwidth guarantee for traffic classes (TCs).

Supported Devices and Features

HPE Part Number

825110-B21

825111-B21

872726-B21

879482-B21

868779-B21

P11338-B21

817749-B21

817753-B21

P24837-B21

874253-B21

P06154-B21

P06250-B21

P06251-B21

P10180-B21

Important Note!

-

Fixes

Firmware ASSERT issue might be observed when scsi-mid-layer sends requests that exceeded the exposed host queue depth. This issue might happen in Linux kernel version 5.5 and higher.

following error message might be observed 'Synchronize Cache(10) failed: Result: hostbyte=DID_NO_CONNECT driverbyte=DRIVER_OK', when unloading driver with outstanding I/O on drive write cache enabled for HBA SAS/SATA disks.

The SmartPath read I/O request might have access error and no data is returned, when I/O request hit UREs.

Enhancements

Added support to the HPE SR932i-p and SR416-a Gen10+ Controllers.

Supported Devices and Features

SUPPORTED KERNELS:

The kernels of Red Hat Enterprise Linux7 (64-bit) supported by this binary rpm are:

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

Version: 2.1.8-040 (Recommended)

Important Note!

-

Fixes

Firmware ASSERT issue might be observed when scsi-mid-layer sends requests that exceeded the exposed host queue depth. This issue might happen in Linux kernel version 5.5 and higher.

following error message might be observed 'Synchronize Cache(10) failed: Result: hostbyte=DID_NO_CONNECT driverbyte=DRIVER_OK', when unloading driver with outstanding I/O on drive write cache enabled for HBA SAS/SATA disks.

The SmartPath read I/O request might have access error and no data is returned, when I/O request hit UREs.

Enhancements

Added support to the HPE SR932i-p and SR416-a Gen10+ Controllers.

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

Version: 12.8.334.6 (Recommended)

Important Note!

Release Notes:

HPE Emulex Adapters Release Notes

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

1. Go to <http://www.hpe.com/support/manuals>
2. Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

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
```

Updated to driver version 12.8.334.6

Prerequisites

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

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

Enhancements

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

```
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
```

Updated to driver version 12.8.334.6

Supported Devices and Features

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

HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1200E 16Gb 1Single Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2012

R2

Version: 9.4.1.20 (b) (Recommended)

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

Fixed the following:-

Fixed a behavior where Hyper-V Virtual Machines (VMs) may not see all paths to Logical Unit Numbers (LUNs)

Fixed a behavior where an Fibre Channel (FC) Tape device configured for Target Persistent Binding would not be recognized after server reboot

Fixed a behavior where Multipath I/O (MPIO) paths may not recover if left offline for more than 90 seconds

Fixed a behavior where Input/Output (I/O) incompletions would be reported after extended periods of uptime in an Fibre Channel (FC) fabric doing Remote Desktop Protocol (RDP) requests

Added the following:-

Added support for Fabric Performance Impact Notifications (FPIN)

Updated to version 9.4.1.20

Prerequisites

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

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

Fixes

Fixed the following:-

Fixed a behavior where Hyper-V Virtual Machines (VMs) may not see all paths to Logical Unit Numbers (LUNs)

Fixed a behavior where an Fibre Channel (FC) Tape device configured for Target Persistent Binding would not be recognized after server reboot

Fixed a behavior where Multipath I/O (MPIO) paths may not recover if left offline for more than 90 seconds

Fixed a behavior where Input/Output (I/O) incompletions would be reported after extended periods of uptime in an Fibre Channel (FC) fabric doing Remote Desktop Protocol (RDP) requests

Enhancements

Added the following:-

Added support for Fabric Performance Impact Notifications (FPIN)

Updated to version 9.4.1.20

Supported Devices and Features

This driver supports the following HPE adapters:

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE Storage Fibre Channel Adapter Kit for the x64 QLogic Storport Driver for Microsoft Windows Server 2016

Version: 9.4.2.20 (Recommended)

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

Fixed the following:-

Fixed a behavior where Hyper-V Virtual Machines (VMs) may not see all paths to Logical Unit Numbers (LUNs)

Fixed a behavior where an Fibre Channel (FC) Tape device configured for Target Persistent Binding would not be recognized after server reboot

Fixed a behavior where Multipath I/O (MPIO) paths may not recover if left offline for more than 90 seconds

Fixed a behavior where Input/Output (I/O) incompletions would be reported after extended periods of uptime in an Fibre Channel (FC) fabric doing Remote Desktop Protocol (RDP) requests

Added the following:-

Added support for Fabric Performance Impact Notifications (FPIN)

Updated to version 9.4.2.20

Prerequisites

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

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

Fixes

Fixed the following:-

Fixed a behavior where Hyper-V Virtual Machines (VMs) may not see all paths to Logical Unit Numbers (LUNs)

Fixed a behavior where an Fibre Channel (FC) Tape device configured for Target Persistent Binding would not be recognized after server reboot

Fixed a behavior where Multipath I/O (MPIO) paths may not recover if left offline for more than 90 seconds

Fixed a behavior where Input/Output (I/O) incompletions would be reported after extended periods of uptime in an Fibre Channel (FC) fabric doing Remote Desktop Protocol (RDP) requests

Enhancements

Added the following:-

Added support for Fabric Performance Impact Notifications (FPIN)

Updated to version 9.4.2.20

Supported Devices and Features

This driver supports the following HPE adapters:

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

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

Version: 9.4.2.20 (Recommended)

Important Note!

Release Notes:

HPE QLogic Adapters Release Notes

Fixed the following:-

Fixed a behavior where Hyper-V Virtual Machines (VMs) may not see all paths to Logical Unit Numbers (LUNs)

Fixed a behavior where an Fibre Channel (FC) Tape device configured for Target Persistent Binding would not be recognized after server reboot

Fixed a behavior where Multipath I/O (MPIO) paths may not recover if left offline for more than 90 seconds

Fixed a behavior where Input/Output (I/O) incompletions would be reported after extended periods of uptime in an Fibre Channel (FC) fabric doing Remote Desktop Protocol (RDP) requests

Added the following:-

Added support for Fabric Performance Impact Notifications (FPIN)

Updated to version 9.4.2.20

Prerequisites

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

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

Fixes

Fixed the following:-

Fixed a behavior where Hyper-V Virtual Machines (VMs) may not see all paths to Logical Unit Numbers (LUNs)

Fixed a behavior where an Fibre Channel (FC) Tape device configured for Target Persistent Binding would

not be recognized after server reboot

Fixed a behavior where Multipath I/O (MPIO) paths may not recover if left offline for more than 90 seconds

Fixed a behavior where Input/Output (I/O) incompletions would be reported after extended periods of uptime in an Fibre Channel (FC) fabric doing Remote Desktop Protocol (RDP) requests

Enhancements

Added the following:-

Added support for Fabric Performance Impact Notifications (FPIN)

Updated to version 9.4.2.20

Supported Devices and Features

This driver supports the following HPE adapters:

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE Non-Volatile Memory Drivers for Microsoft Windows Server 2012 R2 and 2016

Version: 3.0.2.0 (Recommended)

Important Note!

This Smart Component version 3.0.2.0 contains the HPE NVM Bus Driver HpeNvmBus.sys version 3.0.2.0 and the HPE NVM Disk Driver HpeNvmDisk0101 version 3.0.2.0.

Enhancements

These Non-Volatile Memory drivers enable support for Persistent Memory technology on select HPE Servers running Microsoft Windows Server 2012 R2 and 2016.

Added support for Microsoft virtual NVDIMMs (aka vNVDIMMs) presented by Hyper-V Server 2019, on WS2012R2 and WS2016 guests.

Added support for HPE Persistent Memory devices (featuring Intel Optane DC Persistent Memory), on WS2012R2 and WS2016.

Added support for HPE 16GB NVDIMM devices, on WS2012R2.

Changed block sector size from 512B to 4096B. Old data won't be accessible and must be backed up first if it needs to be preserved.

For more information about Persistent Memory technology offered on HPE Servers, please consult the following links:

<https://www.hpe.com/us/en/servers/persistent-memory.html>

<https://persistentmemory.hpe.com/windows/nvdimm>

Language Pack - Japanese

Version: 2.42 (Recommended)

Fixes

Various translation fixes.

Enhancements

Japanese Language Pack to support iLO5 firmware v2.42

Language Pack - Japanese

Version: 2.42 (Recommended)

Prerequisites

Requires iLO 5 firmware version 1.10 or higher

Fixes

Various translation fixes.

Enhancements

Japanese Language Pack to support iLO5 firmware v2.42

Online ROM Flash Component for Linux - iLO 5

Version: 1.40 (Recommended)

Enhancements

List your enhancements here.

Online ROM Flash Component for Linux - iLO 5

Version: 2.42 (Recommended)

Fixes

- Corrected Product Name listed under Device Inventory as "NVIDIA Quadro M3000SE", that was wrongly listed as "Synergy 75W MXM Mezzanine" with iLO firmware v2.16 and higher

Online ROM Flash Component for Windows x64 - iLO 5

Version: 1.40 (Recommended)

Enhancements

List your enhancements here.

Online ROM Flash Component for Windows x64 - iLO 5

Version: 2.42 (Recommended)

Fixes

- Corrected Product Name listed under Device Inventory as "NVIDIA Quadro M3000SE", that was wrongly listed as "Synergy 75W MXM Mezzanine" with iLO firmware v2.16 and higher

Online ROM Flash Firmware Package - iLO 5

Version: 1.40 (Recommended)

Enhancements

List your enhancements here.

Online ROM Flash Firmware Package - iLO 5

Version: 2.42 (Recommended)

Fixes

- Corrected Product Name listed under Device Inventory as "NVIDIA Quadro M3000SE", that was wrongly listed as "Synergy 75W MXM Mezzanine" with iLO firmware v2.16 and higher

HPE Broadcom NX1 Online Firmware Upgrade Utility for Linux x86_64

Version: 2.27.6 (Optional)

Important Note!

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

Prerequisites

This package requires the appropriate driver for your network adapter be installed on all Ethernet ports brought up (ifup ethX or ifconfig ethX up or wicked ifup ethX) before firmware can be updated.

If local system doesn't configure any network interface for the adapter that are necessary to create the network config file to bring up interface.

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

Fixes

This product addresses an issue about lack of information under AHS log.

This product addresses an RSOD issue which appeared intermittently during POST after having a warm reboot.

This product addresses a modification on help string of Family Firmware Version.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 331i Adapter (22BE)

HPE Ethernet 1Gb 4-port 331FLR Adapter

HPE Ethernet 1Gb 4-port 331T Adapter

HPE Ethernet 1Gb 2-port 332i Adapter (22E8)

HPE Ethernet 1Gb 2-port 332T Adapter

HPE Broadcom NX1 Online Firmware Upgrade Utility for VMware

Version: 1.28.6 (Optional)

Important Note!

This software package contains combo image v20.18.31 with the following firmware versions:

NIC

HPE Ethernet 1Gb 4-port 331i Adapter (22BE)

HPE Ethernet 1Gb 4-port 331FLR Adapter

HPE Ethernet 1Gb 4-port 331T Adapter

HPE Ethernet 1Gb 2-port 332i Adapter (22E8)

HPE Ethernet 1Gb 2-port 332T Adapter

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 about lack of information under AHS log.

This product addresses an RSOD issue which appeared intermittently during POST after having a warm reboot.

This product addresses a modification on help string of Family Firmware Version.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 331i Adapter (22BE)

HPE Ethernet 1Gb 4-port 331FLR Adapter

HPE Ethernet 1Gb 4-port 331T Adapter

HPE Ethernet 1Gb 2-port 332i Adapter (22E8)

HPE Ethernet 1Gb 2-port 332T Adapter

HPE Broadcom NX1 Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.2.4.0 (Optional)

Important Note!

HPE recommends HPE Broadcom NX1 1Gb Driver for Windows Server x64 Editions, version 214.0.0.6 or later, for use with this firmware.

This software package contains combo image v20.18.31 with the following firmware versions:

NIC

HPE Ethernet 1Gb 4-port 331i Adapter (22BE)

HPE Ethernet 1Gb 4-port 331FLR Adapter

HPE Ethernet 1Gb 4-port 331T Adapter

HPE Ethernet 1Gb 2-port 332i Adapter (22E8)

HPE Ethernet 1Gb 2-port 332T Adapter

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 about lack of information under AHS log.

This product addresses an RSOD issue which appeared intermittently during POST after having a warm reboot.

This product addresses a modification on help string of Family Firmware Version.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 1Gb 4-port 331i Adapter (22BE)

HPE Ethernet 1Gb 4-port 331FLR Adapter

HPE Ethernet 1Gb 4-port 331T Adapter

HPE Ethernet 1Gb 2-port 332i Adapter (22E8)

HPE Ethernet 1Gb 2-port 332T Adapter

HPE Intel Online Firmware Upgrade Utility for Linux x86_64

Version: 1.21.6 (Optional)

Important Note!

HPE recommends at least one of the following drivers, as appropriate for your device, for use with this firmware:

HPE Intel igb Drivers for Linux, versions 6.2.5 or later

HPE Intel ixgbe Drivers for Linux , versions 5.9.4 or later

HPE Intel i40e Drivers for Linux, versions 2.13.10 or later

Prerequisites

This package requires the appropriate driver for your network adapter be installed on all Ethernet ports brought up (ifup ethX or ifconfig ethX up or wicked ifup ethX) before firmware can be updated.

If local system doesn't configure any network interface for the adapter that are necessary to create the network config file to bring up interface.

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

Fixes

This product addresses an issue where Systems Insight Display (SID) modul is green when there's no Network connection.

Supported Devices and Features

This package supports the following network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562FLR-T Adapter
HPE Ethernet 10Gb 2-port 562SFP+ Adapter
HPE Ethernet 10Gb 2-port 562T Adapter

HPE Intel Online Firmware Upgrade Utility for VMware

Version: 3.14.5 (Optional)

Important Note!

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

NIC

HPE Ethernet 1Gb 2-port 361T Adapter
HPE Ethernet 1Gb 4-port 366FLR Adapter
HPE Ethernet 1Gb 4-port 366T Adapter
HPE Ethernet 1Gb 4-port 369i Adapter
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
HPE Ethernet 10Gb 2-port 562FLR-T Adapter
HPE Ethernet 10Gb 2-port 562SFP+ Adapter
HPE Ethernet 10Gb 2-port 562T Adapter

The combo image v1.2836.0 includes: Boot Agent: 1GbE - v1.5.88, 10GbE - v2.4.44, 40GbE - v1.1.18 & UEFI Drivers: 1GbE - v9.4.06, 10GbE - v7.8.13, 40GbE - v4.4.12

The combo image v1.1375.0 includes: Boot Agent: 1GbE - v1.5.72, 10GbE - v2.3.46, 40GbE - v1.0.21 & UEFI Drivers: 1GbE - v6.9.13, 10GbE - v5.0.20, 40GbE - v1.5.14

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

Prerequisites

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

Fixes

This product addresses an issue where Systems Insight Display (SID) modul is green when there's no Network connection.

Supported Devices and Features

This package supports the following network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter
HPE Ethernet 1Gb 4-port 366FLR Adapter
HPE Ethernet 1Gb 4-port 366T Adapter
HPE Ethernet 1Gb 4-port 369i Adapter
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter
HPE Ethernet 10Gb 2-port 562FLR-T Adapter
HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Intel Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.2.4.0 (Optional)

Important Note!

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

NIC

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

The combo image v1.2836.0 includes: Boot Agent: 1GbE - v1.5.88, 10GbE - v2.4.44, 40GbE - v1.1.18 & UEFI

Drivers: 1GbE - v9.4.06, 10GbE - v7.8.13, 40GbE - v4.4.12

The combo image v1.1375.0 includes: Boot Agent: 1GbE - v1.5.72, 10GbE - v2.3.46, 40GbE - v1.0.21 & UEFI

Drivers: 1GbE - v6.9.13, 10GbE - v5.0.20, 40GbE - v1.5.14

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

Prerequisites

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

Fixes

This product addresses an issue where Systems Insight Display (SID) modul is green when there's no Network connection.

Supported Devices and Features

This package supports the following network adapters:

HPE Ethernet 1Gb 2-port 361T Adapter

HPE Ethernet 1Gb 4-port 366FLR Adapter

HPE Ethernet 1Gb 4-port 366T Adapter

HPE Ethernet 1Gb 4-port 369i Adapter

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter

HPE Ethernet 10Gb 2-port 562FLR-T Adapter

HPE Ethernet 10Gb 2-port 562SFP+ Adapter

HPE Ethernet 10Gb 2-port 562T Adapter

HPE QLogic FastLinQ Online Firmware Upgrade Utility for Linux x86_64

Version: 1.10.10 (Optional)

Important Note!

HPE recommends HPE QLogic FastLinQ 10/25/50GbE Drivers for Linux, versions 8.55.5.0-1 or later, for use with the firmware in this product.

Prerequisites

This package requires the appropriate driver for your network adapter be installed on all Ethernet ports brought up (ifup ethX or ifconfig ethX up or wicked ifup ethX) before firmware can be updated.

If local system doesn't configure any network interface for the adapter that are necessary to create the network config file to bring up interface.

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

Fixes

This product addresses a pause flood condition on switch when attempting iPXE boot.

Enhancements

This product contains support PLDM firmware upgrade base improvements.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 521T Adapter

HPE QLogic FastLinQ Online Firmware Upgrade Utility for VMware

Version: 4.13.50 (Optional)

Important Note!

HPE recommends HPE QLogic FastLinQ 10/25/50GbE Multifunction Drivers for VMware, versions 2021.04.05 or later, for use with this firmware.

This software package contains combo image version v8.55.12 includes:

Boot Code (MFW): 8.55.21.0

UEFI: 4.1.11.2

PXE: 2.0.19

The users will only see the combo image versions in the interactive mode firmware update or while using HPSUM/SPP to update the firmware on the supported adapters.

Prerequisites

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

Fixes

This product addresses a pause flood condition on switch when attempting iPXE boot.

Enhancements

This product contains support PLDM firmware upgrade base improvements.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 521T Adapter

HPE QLogic FastLinQ Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.2.4.0 (Optional)

Important Note!

HPE recommends at least one of the following drivers, as appropriate for your device, for use with this firmware:

HPE QLogic FastLinQ 10/25/50GbE Driver for Windows Server x64 Editions, versions 8.55.5.0

This combo image version v8.55.12 includes:

Boot Code (MFW): 8.55.21.0

UEFI: 4.1.11.2

PXE: 2.0.19

The users will only see the combo image versions in the interactive mode firmware update or while using HPSUM/SPP to update the firmware on the supported adapters.

Prerequisites

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

Fixes

This product addresses a pause flood condition on switch when attempting iPXE boot.

Enhancements

This product contains support PLDM firmware upgrade base improvements.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 521T Adapter

HPE QLogic NX2 Online Firmware Upgrade Utility for Linux x86_64

Version: 2.28.6 (Optional)

Important Note!

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for Linux, versions 7.14.76-1 or later, for use with the firmware in this package.

Prerequisites

This package requires the appropriate driver for your network adapter be installed on all Ethernet ports

brought up (ifup ethX or ifconfig ethX up or wicked ifup ethX) before firmware can be updated.
If local system doesn't configure any network interface for the adapter that are necessary to create the network config file to bring up interface.

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

Fixes

This product addresses an issue that platform would be randomly waked up by WOL packet.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 530SFP+ Adapter

HPE Ethernet 10Gb 2-port 530T Adapter

HPE QLogic NX2 Online Firmware Upgrade Utility for VMware

Version: 1.28.6 (Optional)

Important Note!

HPE recommends HPE QLogic NX2 10/20GbE Multifunction Drivers for VMware, versions 2021.04.05 or later, for use with this firmware.

This software package contains combo image v7.18.80 with the following firmware versions:

NIC

HPE Ethernet 10Gb 2-port 530SFP+ Adapter

HPE Ethernet 10Gb 2-port 530T Adapter

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 that platform would be randomly waked up by WOL packet.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 530SFP+ Adapter

HPE Ethernet 10Gb 2-port 530T Adapter

HPE QLogic NX2 Online Firmware Upgrade Utility for Windows Server x64 Editions

Version: 5.2.4.0 (Optional)

Important Note!

HPE recommends at least one of the following drivers, as appropriate for your device, for use with this firmware:

HPE QLogic NX2 10/20GbE Multifunction Drivers for Windows Server x64 Editions, version 7.13.196.0 or later

This software package contains combo image v7.18.80 with the following firmware versions:

NIC

HP Ethernet 10Gb 2-port 530SFP+ Adapter

HP Ethernet 10Gb 2-port 530T Adapter

HP Ethernet 10Gb 2-port 533FLR-T Adapter

The users will only see the combo image versions in the interactive mode firmware update or while using HPSUM/SPP to update the firmware on the supported adapters.

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 that platform would be randomly waked up by WOL packet.

Supported Devices and Features

This product supports the following network adapters:

HPE Ethernet 10Gb 2-port 530SFP+ Adapter

HPE Ethernet 10Gb 2-port 530T Adapter

Intel Online Firmware Upgrade Utility for Linux x86_64

Version: 1.22.11 (Optional)

Prerequisites

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

Enhancements

This product now supports Red Hat Enterprise Linux 8, Update 2 and Update 3.

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: 3.15.8 (Optional)

Important Note!

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

NIC

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

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

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

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

The combo image v1.2829.0 includes: Boot Agent: I40E - v1.1.18& UEFI Drivers: 40GbE - v4.4.12.

The combo image v1.2839.0 includes: Boot Agent: 1GbE - v1.5.88 & UEFI Drivers: 1GbE - v9.4.06.

Prerequisites

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

Enhancements

This product now supports VMware vSphere 7.0 U1.

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: 5.2.4.0 (Optional)

Important Note!

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

NIC

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

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

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

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

The combo image v1.2829.0 includes: Boot Agent: I40E - v1.1.18& UEFI Drivers: 40GbE - v4.4.12.

The combo image v1.2839.0 includes: Boot Agent: 1GbE - v1.5.88 & UEFI Drivers: 1GbE - v9.4.06.

Prerequisites

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

Fixes

This product correct an issue which fixes OROM downgrade failed from older version with exit code 6

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)

Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox Ethernet only adapters

Version: 1.0.9 (Recommended)

Important Note!

The Firmware Upgrade Utility has been split into 2 packages for Mellanox Ethernet Only NIC adapters, one supporting Synergy platforms and the other supporting ProLiant and Apollo platforms. This package supports Mellanox Ethernet Only NIC adapters on ProLiant and Apollo servers.

Known Issues for FW version 2.42.5044 :

When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.

Enabling/disabling cq_timestamp using mlxconfig is not supported.

In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LED will not be active while the ETH link is in an idle mode.

In SR-IOV setup, using mlxconfig when the PF is passed through to a VM requires a reboot of the Hypervisor.

Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot. Reboot the server.

On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/driver utilities that read the GUID via device firmware (e.g., using ibstat). Mlxburn/flint return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.

SBR should be asserted for a minimum of 50 milliseconds for the ConnectX[®]-3 adapters

On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed

RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.

When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating. MFT tools might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.

Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module

Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only).

PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV

Bloom filter is currently not supported.

Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3

RM#DMFS should not be enabled when working with InfiniBand on MLNX_OFED-2.0.3

RM#VPD read-only fields are writable.

Increasing SymbolErrorCounter When working in VPI mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly

Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.

CQ and EQ cannot be configured to different stride sizes.

ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations. RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.

Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.

RDP over IPv6 is currently not functional.

Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to "push to that rule"

Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.

The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.

56GbE link is not raised when using 100GbE optic cables.

When working with MLNX_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in `mlx-4_en_get_drvinfo()` that is called from asynchronous event handler.

832298:When running `ibdump`, loopback traffic is mirroring into the kernel driver.

AHS reports wrong MTU size

RM#846523: MAC address that are set from the OS using `ifconfig` are not reflected in the OCBB buffer
Known Issues for FW version 14.29.1016 and 16.29.1016:

Sub 1sec firmware update (fast reset flow) is not supported when updating from previous releases to the current one. Doing so may cause network disconnection events.

Workaround: Use full reset flow for firmware upgrade/downgrade.

On systems with high PCIe latency (2us or above), lower bandwidth may be experienced.

Workaround: If such issue is observed:

o

Enable ZTT to overcome the high latency. Run: `mlxconfig -d set ZERO_TOUCH_TUNING_ENABLE=1`

Reset or power cycle the firmware for change to take effect

The following are the Steering Dump limitations:

Supported only on ConnectX-5 adapter cards

Requires passing the version (FW/Stelib/MFT) and device type to `stelib`

Re-format is not supported

Advanced multi-port feature is not supported -LAG/ROCE_AFFILIATION/MPFS_LB/ESW_LB (only traffic `vhca <-> wire`)

Packet types supported:

Layer 2 Eth

Layer 3 IPv4/IPv6/Grh

Layer 4 TCP/UDP/Bth/GreV0/GreV1

Tunneling VXLAN/Geneve/GREv0/Mpls

FlexParser protocols are not supported (e.g AliVxlan/VxlanGpe etc..).

Compiles only on x86

Congestion Control may not work properly if the card supports two ports and each PF for each port is not

raised at the same time.

Known Issues for FW version 14.29.1016:

Low performance might be experienced when upgrading from previous firmware version to 14.29.1000 when using “Fast FW Reset”.

Known Issues for FW version 16.29.1016:

When PER_PF_NUM_SF=1 (per PF configurations are used for SFs), if the number of SFs configured for a PF is 0 (PF_TOTAL_SF=0), then the firmware wrongly opens BAR2 with size 128KB.

Multi-APP QoS is not supported when LAG is configured.

When configuring adapter card's Level Scheduling, a QoS tree leaf (QUEUE_GROUP) configured with default rate_limit and default bw_share, may not obey the QoS restrictions imposed by any of the leaf's ancestors.

Workaround: To prevent such a case, configure at least one of the following QoS attributes of a leaf: max_average_bw or bw_share.

Occasionally, Tag Matching RNDV and NVME emulation wasn't behaving as expected.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4/ConnectX5 firmware version 14.28.1002/16.28.1002 respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

ixes submitted in version 2.42.5044 :

An issue that prevented the firmware from detecting a link_down event thus preventing the IB bond interface from going to a failover mode.

Following issues have been fixed in firmware version 14.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An issue that caused packets to drop due to header size issues and/or failing checks. The issue was caused due to a Linux issue that caused VFs to set the wrong header size value in wqe_inline_header_mode input.

When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs were configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

An issue that caused the device to go to dead IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Following issues have been fixed in firmware version 16.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An issue that prevented VXLAN packets with svlan/ cvlan tag from being matched.

The eth_wqe_too_small counter to count ODP page used to fail.

When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

An issue that resulted in low performance after enabling the RoCE Accelerator capability.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR. The chassis manager calculation for Multi-Host and Socket-Direct adapter cards to allow running NC-SI commands by the chassis manager BMC. Now the chassis manager is count as BMC with index 0, regardless of how many BMC there are.

An issue that caused the device to go to dead IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Enhancements

Firmware for the following devices are updated to 2.42.5044 :

779799-B21 (HPE Ethernet 10G 2-port 546FLR-SFP+ Adapter)

779793-B21 (HPE Ethernet 10G 2-port 546SFP+ Adapter)

Firmware for the following devices are updated to 14.29.1016:

817749-B21 (HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter)

Firmware for the following devices are updated to 14.29.1016:

817753-B21 (HPE Ethernet 25Gb 2-port 640SFP28 Adapter)

Firmware for the following device is updated to 16.29.1016:

874253-B21 (HPE Ethernet 100Gb 1-port 842QSFP28 Adapter)

New features and changes in version 14.29.1016:

Added support for the following features:

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

cq_overnrun counter: This counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

New features and changes in version 16.29.1016:

Added support for following features:

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

InfiniBand properties set to the Network Device Function Redfish object.

HW support for Flow Metering to utilize Advanced Steering Operation (ASO). HW Flow Meter allows higher scale, more accuracy, and better performance compare to the FW Flow Metering.

Trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

2 new Mini CQE formats: Responder Mini CQE With Flow Tag Layout Responder Mini CQE With I3_I4_info Layout

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Steering DP hash flow groups.

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit

into the WQE due to their large size. Additionally, we added the option to control if such packet will cause “CQE with Error” or “CQE MOCK”.

PCIe Rx modifications to prevent the adapter cards from disappearing from the system.

ignore_flow_level is now enabled by the TRUST LEVEL access registry.

cq_overrun counter. The counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

[Beta] Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

779793-B21

779799-B21

817749-B21

817753-B21

874253-B21

Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 6.5

Version: 1.0.8 (Recommended)

Important Note!

Known Issues with firmware version 12.28.1002:

When MKEY_BY_NAME is enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

Known Issues with firmware version 16.29.1016:

Multi-APP QoS is not supported when LAG is configured.

Sub 1sec firmware update (fast reset flow) is not supported when updating from previous releases to the current one. Doing so may cause network disconnection events.

Workaround: Use full reset flow for firmware upgrade/downgrade.

On systems with high PCIe latency (2us or above), lower bandwidth may be experienced.

Workaround: If such issue is observed:

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Enable ZTT to overcome the high latency. Run: `mlxconfig -d set ZERO_TOUCH_TUNING_ENABLE=1`

Reset or power cycle the firmware for change to take effect

When PER_PF_NUM_SF=1 (per PF configurations are used for SFs), if the number of SFs configured for a PF is 0 (PF_TOTAL_SF=0), then the firmware wrongly opens BAR2 with size 128KB.

The following are the Steering Dump limitations:

Supported only on ConnectX-5 adapter cards

Requires passing the version (FW/Stelib/MFT) and device type to stelib

Re-format is not supported

Advanced multi-port feature is not supported -LAG/ROCE_AFFILIATION/MPFS_LB/ESW_LB (only traffic vhca <-> wire)

Packet types supported:

Layer 2 Eth

Layer 3 IPv4/Ipv6/Grh

Layer 4 TCP/UDP/Bth/GreV0/GreV1

Tunneling VXLAN/Geneve/GREv0/Mpls

FlexParser protocols are not supported (e.g AliVxlan/VxlanGpe etc..).

Compiles only on x86

When configuring adapter card's Level Scheduling, a QoS tree leaf (QUEUE_GROUP) configured with default rate_limit and default bw_share, may not obey the QoS restrictions imposed by any of the leaf's ancestors.

Workaround: To prevent such a case, configure at least one of the following QoS attributes of a leaf: max_average_bw or bw_share.

Occasionally, Tag Matching RNDV and NVME emulation wasn't behaving as expected.

Congestion Control may not work properly if the card supports two ports and each PF for each port is not raised at the same time.

Fixes

Following issues have been fixed in firmware version 16.29.1016:

An issue that prevented VXLAN packets with svlan/ cvlan tag from being matched.

An issue that caused the eth_wqe_too_small counter to count ODP (On-Demand Paging) page faults.

When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

An issue that resulted in low performance after enabling the RoCE Accelerator capability. Note: The fix is available when all ports are set as Ethernet.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR. The chassis manager calculation for Multi-Host and Socket-Direct adapter cards to allow running NC-SI commands by the chassis manager BMC. Now the chassis manager is count as BMC with index 0, regardless of how many BMC there are.

An issue that caused the device to go to down IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Following issues have been fixed in firmware version 12.28.1002:

An issue that caused the DCR to be destroyed before the retry option managed to work when the retry timeout is too big. In this case the DCR' time-to-live was increased, and the maximum retry timeout was decreased.

Increased PHY power consumption limit to 1.5w.

An issue that caused PortCounters.PortRcvErr / PPCNT.infiniband_counters.PortRcvErr not to report port icrc errors.

Enhancements

Firmware for the following devices are updated to 12.28.1002:

825110-B21 (HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter)

825111-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter)

New Feature and Changes in Version 12.28.1002:

Increased the maximum XRQ number to 512.

Firmware for the following devices are updated to 16.29.1016:

879482-B21 (HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter)

872726-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter)

New Feature and Changes in Version 16.29.1016:

Added support for the following features:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter `min_time_between_cnps` to 4 on all devices to support larger scalability of cluster.

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

InfiniBand properties set to the Network Device Function Redfish object.

HW support for Flow Metering to utilize Advanced Steering Operation (ASO). HW Flow Meter allows higher scale, more accuracy, and better performance compared to the FW Flow Metering.

Trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

2 new Mini CQE formats: Responder Mini CQE With Flow Tag Layout Responder Mini CQE With I3_I4_info Layout

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the `QUERY_HCA_VPORT_CONTEXT` command.

Steering DP hash flow groups.

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

PCIe Rx modifications to prevent the adapter cards from disappearing from the system.

`ignore_flow_level` is now enabled by the TRUST LEVEL access registry.

`cq_overrun` counter. The counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

[Beta] Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

825110-B21

825111-B21

872726-B21

879482-B21

Online Firmware Upgrade Utility (ESXi 6.5) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX6 devices on VMware ESXi 6.5

Version: 1.0.1 (Recommended)

Important Note!

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

50GbE

100GbE/25GbE

40GbE/10GbE

1GbE

Port #2 - Ethernet

Port #1 - InfiniBand

HDR / HDR100

EDR

FDR

QDR/SDR

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX6 firmware version 20.27.6008. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

The following issues have been fixed in version 20.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter `min_time_between_cnps` to 4 on all devices to support larger scalability of cluster.

An issue that prevented VXLAN packets with `svlan/cvlan` tag from being matched.

The `eth_wqe_too_small` counter to count ODP (On-Demand Paging) page used to fail.

An issue related to raising 100GbE link on ConnectX-6 VPI 100Gb/s adapter cards.

When `MKEY_BY_NAME` was enabled by `NVCONFIG` and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when `MKEY_BY_NAME` is disabled.

Low performance occurred after enabling the RoCE Accelerator capability.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

Enhancements

Firmware for the following devices are updated to 20.29.1016:

New Features and Changes in Version 20.29.1016:

Added support for following features:

LinkX module burning via MFT toolset. The new capability enables direct firmware burning from the internal flash storage to reduce the bandwidth and accelerate the burning process, including burning

several modules at a time.

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

Improved NRZ link performance (RX algorithm).

Improved NRZ link-up time (25G¥50G¥100G speeds).

Enabled the options to control different Tx sets for the same attribute when connecting a Mellanox-Mellanox vs Mellanox to 3rd party HCA.

InfiniBand properties set to the Network Device Function Redfish object.

Direct Packet Placement (DPP): DPP is a receive side transport service in which the Ethernet packets are scattered to the memory according to a packet sequence number (PSN) carried by the packet, and not by their arrival order.

To enable DPP offload, the software should create a special RQ by using the CREATE_RQ command, and set DPP relevant attributes.

Added trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Enhanced IB Congestion Control to support lower minimum rate. Now it uses destination-lid to classify flows to handle larger scale, and achieve better results in GPCNeT benchmark.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

P06154-B21

P06250-B21

P06251-B21

Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox Ethernet only adapters

Version: 1.0.5 (Recommended)

Important Note!

The Firmware Upgrade Utility has been split into 2 packages for Mellanox Ethernet Only NIC adapters, one supporting Synergy platforms and the other supporting ProLiant and Apollo platforms. This package supports Mellanox Ethernet Only NIC adapters on ProLiant and Apollo servers.

Known Issues for FW version 2.42.5044 :

When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.

Enabling/disabling cq_timestamp using mlxconfig is not supported.

In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LES will not be active while the ETH link is in an idle mode.

In SR-IOV setup, using mlxconfig when the PF is passed through to a VM requires a reboot of the Hypervisor.

Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier

version than 2.30.8000 requires server reboot. Reboot the server.

On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/driver utilities that read the GUID via device firmware (e.g., using `ibstat`). `Mlxburn/flint` return `0xffff` as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.

SBR should be asserted for a minimum of 50 milliseconds for the ConnectX®-3 adapters

On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed

RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.

When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating.

MFT tools might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.

Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module

Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only).

PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV

Bloom filter is currently not supported.

Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3

`RM#DMFS` should not be enabled when working with InfiniBand on `MLNX_OFED-2.0.3`

`RM#VPD` read-only fields are writable.

Increasing `SymbolErrorCounter` When working in VPI mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly

Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.

CQ and EQ cannot be configured to different stride sizes.

ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations.

RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.

Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.

RDP over IPv6 is currently not functional.

Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to "push to that rule"

Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.

The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.

56GbE link is not raised when using 100GbE optic cables.

When working with `MLNX_OFED v3.3-1.0.0.0`, server reboot could get stuck due to a kernel panic in `mlx-4_en_get_drvinfo()` that is called from asynchronous event handler.

832298:When running `ibdump`, loopback traffic is mirroring into the kernel driver.

AHS reports wrong MTU size

RM#846523: MAC address that are set from the OS using ifconfig are not reflected in the OCBB buffer

Known Issues for FW version 14.29.1016 and 16.29.1016:

Sub 1sec firmware update (fast reset flow) is not supported when updating from previous releases to the current one. Doing so may cause network disconnection events.

Workaround: Use full reset flow for firmware upgrade/downgrade.

On systems with high PCIe latency (2us or above), lower bandwidth may be experienced.

Workaround: If such issue is observed:

o

Enable ZTT to overcome the high latency. Run: `mlxconfig -d set ZERO_TOUCH_TUNING_ENABLE=1`

Reset or power cycle the firmware for change to take effect

The following are the Steering Dump limitations:

Supported only on ConnectX-5 adapter cards

Requires passing the version (FW/Stelib/MFT) and device type to stelib

Re-format is not supported

Advanced multi-port feature is not supported -LAG/ROCE_AFFILIATION/MPFS_LB/ESW_LB (only traffic vhca <-> wire)

Packet types supported:

Layer 2 Eth

Layer 3 IPv4/IPv6/Grh

Layer 4 TCP/UDP/Bth/GreV0/GreV1

Tunneling VXLAN/Geneve/GREv0/Mpls

FlexParser protocols are not supported (e.g AliVxlan/VxlanGpe etc..).

Compiles only on x86

Congestion Control may not work properly if the card supports two ports and each PF for each port is not raised at the same time.

Known Issues for FW version 14.29.1016:

Low performance might be experienced when upgrading from previous firmware version to 14.29.1000 when using "Fast FW Reset".

Known Issues for FW version 16.29.1016:

When `PER_PF_NUM_SF=1` (per PF configurations are used for SFs), if the number of SFs configured for a PF is 0 (`PF_TOTAL_SF=0`), then the firmware wrongly opens BAR2 with size 128KB.

Multi-APP QoS is not supported when LAG is configured.

When configuring adapter card's Level Scheduling, a QoS tree leaf (`QUEUE_GROUP`) configured with default `rate_limit` and default `bw_share`, may not obey the QoS restrictions imposed by any of the leaf's ancestors.

Workaround: To prevent such a case, configure at least one of the following QoS attributes of a leaf: `max_average_bw` or `bw_share`.

Occasionally, Tag Matching RNDV and NVME emulation wasn't behaving as expected.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4/ConnectX5 firmware version 14.28.1002/16.28.1002 respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

ixes submitted in version 2.42.5044 :

An issue that prevented the firmware from detecting a link_down event thus preventing the IB bond interface from going to a failover mode.

Following issues have been fixed in firmware version 14.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An issue that caused packets to drop due to header size issues and/or failing checks. The issue was caused due to a Linux issue that caused VFs to set the wrong header size value in wqe_inline_header_mode input. When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs were configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

An issue that caused the device to go to dead IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Following issues have been fixed in firmware version 16.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An issue that prevented VXLAN packets with svlan/ cvlan tag from being matched.

The eth_wqe_too_small counter to count ODP page used to fail.

When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

An issue that resulted in low performance after enabling the RoCE Accelerator capability.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

The chassis manager calculation for Multi-Host and Socket-Direct adapter cards to allow running NC-SI commands by the chassis manager BMC. Now the chassis manager is count as BMC with index 0, regardless of how many BMC there are.

An issue that caused the device to go to dead IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Enhancements

Firmware for the following devices are updated to 2.42.5044 :

779799-B21 (HPE Ethernet 10G 2-port 546FLR-SFP+ Adapter)

779793-B21 (HPE Ethernet 10G 2-port 546SFP+ Adapter)

Firmware for the following devices are updated to 14.29.1016:

817749-B21 (HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter)

Firmware for the following devices are updated to 14.29.1016:

817753-B21 (HPE Ethernet 25Gb 2-port 640SFP28 Adapter)

Firmware for the following device is updated to 16.29.1016:

874253-B21 (HPE Ethernet 100Gb 1-port 842QSFP28 Adapter)

New features and changes in version 14.29.1016:

Added support for the following features:

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

cq_overnrun counter: This counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

New features and changes in version 16.29.1016:

Added support for following features:

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

InfiniBand properties set to the Network Device Function Redfish object.

HW support for Flow Metering to utilize Advanced Steering Operation (ASO). HW Flow Meter allows higher scale, more accuracy, and better performance compare to the FW Flow Metering.

Trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

2 new Mini CQE formats: Responder Mini CQE With Flow Tag Layout Responder Mini CQE With I3_I4_info Layout

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Steering DP hash flow groups.

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

PCIe Rx modifications to prevent the adapter cards from disappearing from the system.

ignore_flow_level is now enabled by the TRUST LEVEL access registry.

cq_overnrun counter. The counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

[Beta] Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

779793-B21

779799-B21

817749-B21

817753-B21

874253-B21

Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 6.7

Version: 1.0.4 (Recommended)

Important Note!

Known Issues with firmware version 12.28.1002:

When MKEY_BY_NAME is enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

Known Issues with firmware version 16.29.1016:

Multi-APP QoS is not supported when LAG is configured.

Sub 1sec firmware update (fast reset flow) is not supported when updating from previous releases to the current one. Doing so may cause network disconnection events.

Workaround: Use full reset flow for firmware upgrade/downgrade.

On systems with high PCIe latency (2us or above), lower bandwidth may be experienced.

Workaround: If such issue is observed:

o

Enable ZTT to overcome the high latency. Run: `mlxconfig -d set ZERO_TOUCH_TUNING_ENABLE=1`

Reset or power cycle the firmware for change to take effect

When PER_PF_NUM_SF=1 (per PF configurations are used for SFs), if the number of SFs configured for a PF is 0 (PF_TOTAL_SF=0), then the firmware wrongly opens BAR2 with size 128KB.

The following are the Steering Dump limitations:

Supported only on ConnectX-5 adapter cards

Requires passing the version (FW/Stelib/MFT) and device type to stelib

Re-format is not supported

Advanced multi-port feature is not supported -LAG/ROCE_AFFILIATION/MPFS_LB/ESW_LB (only traffic `vhca <-> wire`)

Packet types supported:

Layer 2 Eth

Layer 3 IPv4/IPv6/Grh

Layer 4 TCP/UDP/Bth/GreV0/GreV1

Tunneling VXLAN/Geneve/GREv0/Mpls

FlexParser protocols are not supported (e.g AliVxlan/VxlanGpe etc..).

Compiles only on x86

When configuring adapter card's Level Scheduling, a QoS tree leaf (QUEUE_GROUP) configured with default `rate_limit` and default `bw_share`, may not obey the QoS restrictions imposed by any of the leaf's ancestors.

Workaround: To prevent such a case, configure at least one of the following QoS attributes of a leaf:

`max_average_bw` or `bw_share`.

Occasionally, Tag Matching RNDV and NVME emulation wasn't behaving as expected.

Congestion Control may not work properly if the card supports two ports and each PF for each port is not raised at the same time.

Fixes

Following issues have been fixed in firmware version 16.29.1016:

An issue that prevented VXLAN packets with svlan/ cvlan tag from being matched.

An issue that caused the eth_wqe_too_small counter to count ODP (On-Demand Paging) page faults.

When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

An issue that resulted in low performance after enabling the RoCE Accelerator capability. Note: The fix is available when all ports are set as Ethernet.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR. The chassis manager calculation for Multi-Host and Socket-Direct adapter cards to allow running NC-SI commands by the chassis manager BMC. Now the chassis manager is count as BMC with index 0, regardless of how many BMC there are.

An issue that caused the device to go to down IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Following issues have been fixed in firmware version 12.28.1002:

An issue that caused the DCR to be destroyed before the retry option managed to work when the retry timeout is too big. In this case the DCR' time-to-live was increased, and the maximum retry timeout was decreased.

Increased PHY power consumption limit to 1.5w.

An issue that caused PortCounters.PortRcvErr / PPCNT.infiniband_counters.PortRcvErr not to report port icrc errors.

Enhancements

Firmware for the following devices are updated to 12.28.1002:

825110-B21 (HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter)

825111-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter)

New Feature and Changes in Version 12.28.1002:

Increased the maximum XRQ number to 512.

Firmware for the following devices are updated to 16.29.1016:

879482-B21 (HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter)

872726-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter)

New Feature and Changes in Version 16.29.1016:

Added support for the following features:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

InfiniBand properties set to the Network Device Function Redfish object.

HW support for Flow Metering to utilize Advanced Steering Operation (ASO). HW Flow Meter allows higher scale, more accuracy, and better performance compared to the FW Flow Metering.

Trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

2 new Mini CQE formats: Responder Mini CQE With Flow Tag Layout Responder Mini CQE With I3_I4_info Layout

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Steering DP hash flow groups.

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

PCIe Rx modifications to prevent the adapter cards from disappearing from the system.

ignore_flow_level is now enabled by the TRUST LEVEL access registry.

cq_overrun counter. The counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

[Beta] Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

825110-B21

825111-B21

872726-B21

879482-B21

Online Firmware Upgrade Utility (ESXi 6.7) for HPE Mellanox VPI (Ethernet and InfiniBand mode) ConnectX6 devices on VMware ESXi 6.7

Version: 1.0.1 (Recommended)

Important Note!

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

50GbE

100GbE/25GbE

40GbE/10GbE

1GbE

Port #2 - Ethernet

Port #1 - InfiniBand

HDR / HDR100

EDR
FDR
QDR/SDR

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX6 firmware version 20.27.6008. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

The following issues have been fixed in version 20.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter `min_time_between_cnps` to 4 on all devices to support larger scalability of cluster.

An issue that prevented VXLAN packets with `svlan/cvlan` tag from being matched.

The `eth_wqe_too_small` counter to count ODP (On-Demand Paging) page used to fail.

An issue related to raising 100GbE link on ConnectX-6 VPI 100Gb/s adapter cards.

When `MKEY_BY_NAME` was enabled by `NVCONFIG` and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when `MKEY_BY_NAME` is disabled.

Low performance occurred after enabling the RoCE Accelerator capability.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

Enhancements

Firmware for the following devices are updated to 20.29.1016:

New Features and Changes in Version 20.29.1016:

Added support for following features:

LinkX module burning via MFT toolset. The new capability enables direct firmware burning from the internal flash storage to reduce the bandwidth and accelerate the burning process, including burning several modules at a time.

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

Improved NRZ link performance (RX algorithm).

Improved NRZ link-up time (25G¥50G¥100G speeds).

Enabled the options to control different Tx sets for the same attribute when connecting a Mellanox-Mellanox vs Mellanox to 3rd party HCA.

InfiniBand properties set to the Network Device Function Redfish object.

Direct Packet Placement (DPP): DPP is a receive side transport service in which the Ethernet packets are scattered to the memory according to a packet sequence number (PSN) carried by the packet, and not by their arrival order.

To enable DPP offload, the software should create a special RQ by using the `CREATE_RQ` command, and set DPP relevant attributes.

Added trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "`ooo_per_sl`" field in the `HCA_VPORT` context. It can be also queried by running the `QUERY_HCA_VPORT_CONTEXT` command.

Enhanced IB Congestion Control to support lower minimum rate. Now it uses destination-lid to classify flows to handle larger scale, and achieve better results in GPCNeT benchmark.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

P06154-B21

P06250-B21

P06251-B21

Online Firmware Upgrade Utility (ESXi 7.0) for HPE Mellanox Ethernet only adapters

Version: 1.0.1 (Recommended)

Important Note!

The Firmware Upgrade Utility has been split into 2 packages for Mellanox Ethernet Only NIC adapters, one supporting Synergy platforms and the other supporting ProLiant and Apollo platforms. This package supports Mellanox Ethernet Only NIC adapters on ProLiant and Apollo servers.

Known Issues for FW version 2.42.5044 :

When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.

Enabling/disabling cq_timestamp using mlxconfig is not supported.

In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LES will not be active while the ETH link is in an idle mode.

In SR-IOV setup, using mlxconfig when the PF is passed through to a VM requires a reboot of the Hypervisor.

Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot. Reboot the server.

On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/driver utilities that read the GUID via device firmware (e.g., using ibstat). Mlxburn/flint return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.

SBR should be asserted for a minimum of 50 milliseconds for the ConnectX®-3 adapters

On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed

RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.

When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating.

MFT tools might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.

Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module

Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only).

PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV

Bloom filter is currently not supported.

Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3

RM#DMFS should not be enabled when working with InfiniBand on MLNX_OFED-2.0.3

RM#VPD read-only fields are writable.

Increasing SymbolErrorCounter When working in VPI mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly

Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.

CQ and EQ cannot be configured to different stride sizes.

ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations.

RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.

Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.

RDP over IPv6 is currently not functional.

Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to "push to that rule"

Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.

The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.

56GbE link is not raised when using 100GbE optic cables.

When working with MLNX_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in `mlx-4_en_get_drvinfo()` that is called from asynchronous event handler.

832298:When running `ibdump`, loopback traffic is mirroring into the kernel driver.

AHS reports wrong MTU size

RM#846523: MAC address that are set from the OS using `ifconfig` are not reflected in the OCBB buffer

Known Issues for FW version 14.29.1016 and 16.29.1016:

Sub 1sec firmware update (fast reset flow) is not supported when updating from previous releases to the current one. Doing so may cause network disconnection events.

Workaround: Use full reset flow for firmware upgrade/downgrade.

On systems with high PCIe latency (2us or above), lower bandwidth may be experienced.

Workaround: If such issue is observed:

o

Enable ZTT to overcome the high latency. Run: `mlxconfig -d set ZERO_TOUCH_TUNING_ENABLE=1`

Reset or power cycle the firmware for change to take effect

The following are the Steering Dump limitations:

Supported only on ConnectX-5 adapter cards

Requires passing the version (FW/Stelib/MFT) and device type to `stelib`

Re-format is not supported

Advanced multi-port feature is not supported -LAG/ROCE_AFFILIATION/MPFS_LB/ESW_LB (only traffic

vhca <-> wire)

Packet types supported:

Layer 2 Eth

Layer 3 IPv4/Ipv6/Grh

Layer 4 TCP/UDP/Bth/GreV0/GreV1

Tunneling VXLAN/Geneve/GREv0/Mpls

FlexParser protocols are not supported (e.g AliVxlan/VxlanGpe etc..).

Compiles only on x86

Congestion Control may not work properly if the card supports two ports and each PF for each port is not raised at the same time.

Known Issues for FW version 14.29.1016:

Low performance might be experienced when upgrading from previous firmware version to 14.29.1000 when using "Fast FW Reset".

Known Issues for FW version 16.29.1016:

When PER_PF_NUM_SF=1 (per PF configurations are used for SFs), if the number of SFs configured for a PF is 0 (PF_TOTAL_SF=0), than the firmware wrongly opens BAR2 with size 128KB.

Multi-APP QoS is not supported when LAG is configured.

When configuring adapter card's Level Scheduling, a QoS tree leaf (QUEUE_GROUP) configured with default rate_limit and default bw_share, may not obey the QoS restrictions imposed by any of the leaf's ancestors.

Workaround: To prevent such a case, configure at least one of the following QoS attributes of a leaf: max_average_bw or bw_share.

Occasionally, Tag Matching RNDV and NVME emulation wasn't behaving as expected.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4/ConnectX5 firmware version 14.28.1002/16.28.1002 respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

ixes submitted in version 2.42.5044 :

An issue that prevented the firmware from detecting a link_down event thus preventing the IB bond interface from going to a failover mode.

Following issues have been fixed in firmware version 14.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An issue that caused packets to drop due to header size issues and/or failing checks. The issue was caused due to a Linux issue that caused VFs to set the wrong header size value in wqe_inline_header_mode input. When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs were configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

An issue that caused the device to go to dead IRISC as one of the firmware semaphores could not be

released when a speed change or port state change was triggered.

Following issues have been fixed in firmware version 16.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter `min_time_between_cnps` to 4 on all devices to support larger scalability of cluster.

An issue that prevented VXLAN packets with `svlan/ cvlan` tag from being matched.

The `eth_wqe_too_small` counter to count ODP page used to fail.

When `MKEY_BY_NAME` was enabled by `NVCONFIG` and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when `MKEY_BY_NAME` is disabled.

An issue that resulted in low performance after enabling the RoCE Accelerator capability.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

The chassis manager calculation for Multi-Host and Socket-Direct adapter cards to allow running NC-SI commands by the chassis manager BMC. Now the chassis manager is count as BMC with index 0, regardless of how many BMC there are.

An issue that caused the device to go to dead IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Enhancements

Firmware for the following devices are updated to 2.42.5044 :

779799-B21 (HPE Ethernet 10G 2-port 546FLR-SFP+ Adapter)

779793-B21 (HPE Ethernet 10G 2-port 546SFP+ Adapter)

Firmware for the following devices are updated to 14.29.1016:

817749-B21 (HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter)

Firmware for the following devices are updated to 14.29.1016:

817753-B21 (HPE Ethernet 25Gb 2-port 640SFP28 Adapter)

Firmware for the following device is updated to 16.29.1016:

874253-B21 (HPE Ethernet 100Gb 1-port 842QSFP28 Adapter)

New features and changes in version 14.29.1016:

Added support for the following features:

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

`cq_overrun` counter: This counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

New features and changes in version 16.28.1016:

Added support for following features:

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

InfiniBand properties set to the Network Device Function Redfish object.

HW support for Flow Metering to utilize Advanced Steering Operation (ASO). HW Flow Meter allows higher scale, more accuracy, and better performance compare to the FW Flow Metering.

Trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

2 new Mini CQE formats: Responder Mini CQE With Flow Tag Layout Responder Mini CQE With I3_I4_info Layout

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Steering DP hash flow groups.

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

PCIe Rx modifications to prevent the adapter cards from disappearing from the system.

ignore_flow_level is now enabled by the TRUST LEVEL access registry.

cq_overrun counter. The counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

[Beta] Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

779793-B21

779799-B21

817749-B21

817753-B21

874253-B21

Online Firmware Upgrade Utility (ESXi 7.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on VMware ESXi 7.0

Version: 1.0.1 (Recommended)

Important Note!

Known Issues with firmware version 12.28.1002:

When MKEY_BY_NAME is enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

Known Issues with firmware version 16.29.1016:

Multi-APP QoS is not supported when LAG is configured.

Sub 1sec firmware update (fast reset flow) is not supported when updating from previous releases to the current one. Doing so may cause network disconnection events.

Workaround: Use full reset flow for firmware upgrade/downgrade.

On systems with high PCIe latency (2us or above), lower bandwidth may be experienced.

Workaround: If such issue is observed:

o

Enable ZTT to overcome the high latency. Run: `mlxconfig -d set ZERO_TOUCH_TUNING_ENABLE=1`

Reset or power cycle the firmware for change to take effect

When `PER_PF_NUM_SF=1` (per PF configurations are used for SFs), if the number of SFs configured for a PF is 0 (`PF_TOTAL_SF=0`), then the firmware wrongly opens BAR2 with size 128KB.

The following are the Steering Dump limitations:

Supported only on ConnectX-5 adapter cards

Requires passing the version (FW/Stelib/MFT) and device type to stelib

Re-format is not supported

Advanced multi-port feature is not supported `-LAG/ROCE_AFFILIATION/MPFS_LB/ESW_LB` (only traffic `vhca <-> wire`)

Packet types supported:

Layer 2 Eth

Layer 3 IPv4/IPv6/Grh

Layer 4 TCP/UDP/Bth/GreV0/GreV1

Tunneling VXLAN/Geneve/GREv0/Mpls

FlexParser protocols are not supported (e.g AliVxlan/VxlanGpe etc..).

Compiles only on x86

When configuring adapter card's Level Scheduling, a QoS tree leaf (`QUEUE_GROUP`) configured with default `rate_limit` and default `bw_share`, may not obey the QoS restrictions imposed by any of the leaf's ancestors.

Workaround: To prevent such a case, configure at least one of the following QoS attributes of a leaf: `max_average_bw` or `bw_share`.

Occasionally, Tag Matching RNDV and NVME emulation wasn't behaving as expected.

Congestion Control may not work properly if the card supports two ports and each PF for each port is not raised at the same time.

Fixes

Following issues have been fixed in firmware version 16.29.1016:

An issue that prevented VXLAN packets with `svlan/ cvlan` tag from being matched.

An issue that caused the `eth_wqe_too_small` counter to count ODP (On-Demand Paging) page faults.

When `MKEY_BY_NAME` was enabled by `NVCONFIG` and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when `MKEY_BY_NAME` is disabled.

An issue that resulted in low performance after enabling the RoCE Accelerator capability. Note: The fix is available when all ports are set as Ethernet.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR. The chassis manager calculation for Multi-Host and Socket-Direct adapter cards to allow running NC-SI commands by the chassis manager BMC. Now the chassis manager is count as BMC with index 0, regardless of how many BMC there are.

An issue that caused the device to go to down IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Following issues have been fixed in firmware version 12.28.1002:

An issue that caused the DCR to be destroyed before the retry option managed to work when the retry timeout is too big. In this case the DCR' time-to-live was increased, and the maximum retry timeout was decreased.

Increased PHY power consumption limit to 1.5w.

An issue that caused PortCounters.PortRcvErr / PPCNT.infiniband_counters.PortRcvErr not to report port icrc errors.

Enhancements

Firmware for the following devices are updated to 12.28.1002:

825110-B21 (HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter)

825111-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter)

New Feature and Changes in Version 12.28.1002:

Increased the maximum XRQ number to 512.

Firmware for the following devices are updated to 16.29.1016:

879482-B21 (HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter)

872726-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter)

New Feature and Changes in Version 16.29.1016:

Added support for the following features:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

InfiniBand properties set to the Network Device Function Redfish object.

HW support for Flow Metering to utilize Advanced Steering Operation (ASO). HW Flow Meter allows higher scale, more accuracy, and better performance compared to the FW Flow Metering.

Trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

2 new Mini CQE formats: Responder Mini CQE With Flow Tag Layout Responder Mini CQE With I3_I4_info Layout

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Steering DP hash flow groups.

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

PCIe Rx modifications to prevent the adapter cards from disappearing from the system.

ignore_flow_level is now enabled by the TRUST LEVEL access registry.

cq_overrun counter. The counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

[Beta] Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

825110-B21

825111-B21

872726-B21

879482-B21

Online Firmware Upgrade Utility (ESXi 7.0) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX6 devices on VMware ESXi 7.0

Version: 1.0.1 (Recommended)

Important Note!

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

50GbE

100GbE/25GbE

40GbE/10GbE

1GbE

Port #2 - Ethernet

Port #1 - InfiniBand

HDR / HDR100

EDR

FDR

QDR/SDR

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX6 firmware version 20.27.6008. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

The following issues have been fixed in version 20.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter `min_time_between_cnps` to 4 on all devices to support larger scalability of cluster.

An issue that prevented VXLAN packets with `svlan/cvlan` tag from being matched.

The `eth_wqe_too_small` counter to count ODP (On-Demand Paging) page used to fail.

An issue related to raising 100GbE link on ConnectX-6 VPI 100Gb/s adapter cards.

When `MKEY_BY_NAME` was enabled by `NVCONFIG` and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when `MKEY_BY_NAME` is disabled.

Low performance occurred after enabling the RoCE Accelerator capability.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

Enhancements

Firmware for the following devices are updated to 20.29.1016:

New Features and Changes in Version 20.29.1016:

Added support for following features:

LinkX module burning via MFT toolset. The new capability enables direct firmware burning from the internal flash storage to reduce the bandwidth and accelerate the burning process, including burning several modules at a time.

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

Improved NRZ link performance (RX algorithm).

Improved NRZ link-up time (25G¥50G¥100G speeds).

Enabled the options to control different Tx sets for the same attribute when connecting a Mellanox-Mellanox vs Mellanox to 3rd party HCA.

InfiniBand properties set to the Network Device Function Redfish object.

Direct Packet Placement (DPP): DPP is a receive side transport service in which the Ethernet packets are scattered to the memory according to a packet sequence number (PSN) carried by the packet, and not by their arrival order.

To enable DPP offload, the software should create a special RQ by using the CREATE_RQ command, and set DPP relevant attributes.

Added trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Enhanced IB Congestion Control to support lower minimum rate. Now it uses destination-lid to classify flows to handle larger scale, and achieve better results in GPCNeT benchmark.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

P06154-B21

P06250-B21

P06251-B21

Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox Ethernet only adapters

Version: 1.0.14 (Recommended)

Important Note!

The Firmware Upgrade Utility has been split into 2 packages for Mellanox Ethernet Only NIC adapters, one supporting Synergy platforms and the other supporting ProLiant and Apollo platforms. This package supports Mellanox Ethernet Only NIC adapters on ProLiant and Apollo servers.

Known Issues for FW version 2.42.5044 :

When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.

Enabling/disabling cq_timestamp using mlxconfig is not supported.

In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LED will not be active while the ETH link is in an idle mode.

In SR-IOV setup, using mlxconfig when the PF is passed through to a VM requires a reboot of the Hypervisor.

Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot. Reboot the server.

On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/driver utilities that read the GUID via device firmware (e.g., using ibstat). Mlxburn/flint return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.

SBR should be asserted for a minimum of 50 milliseconds for the ConnectX®-3 adapters

On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed

RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.

When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating.

MFT tools might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.

Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module

Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only).

PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV

Bloom filter is currently not supported.

Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3

RM#DMFS should not be enabled when working with InfiniBand on MLNX_OFED-2.0.3

RM#VPD read-only fields are writable.

Increasing SymbolErrorCounter When working in VPI mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly

Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.

CQ and EQ cannot be configured to different stride sizes.

ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations.

RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.

Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.

RDP over IPv6 is currently not functional.

Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to "push to that rule"

Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.

The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.

56GbE link is not raised when using 100GbE optic cables.

When working with MLNX_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in `mlx-4_en_get_drvinfo()` that is called from asynchronous event handler.

832298:When running `ibdump`, loopback traffic is mirroring into the kernel driver.

AHS reports wrong MTU size

RM#846523: MAC address that are set from the OS using `ifconfig` are not reflected in the OCBB buffer

Known Issues for FW version 14.29.1016 and 16.29.1016:

Sub 1sec firmware update (fast reset flow) is not supported when updating from previous releases to the current one. Doing so may cause network disconnection events.

Workaround: Use full reset flow for firmware upgrade/downgrade.

On systems with high PCIe latency (2us or above), lower bandwidth may be experienced.

Workaround: If such issue is observed:

o

Enable ZTT to overcome the high latency. Run: `mlxconfig -d set ZERO_TOUCH_TUNING_ENABLE=1`

Reset or power cycle the firmware for change to take effect

The following are the Steering Dump limitations:

Supported only on ConnectX-5 adapter cards

Requires passing the version (FW/Stelib/MFT) and device type to `stelib`

Re-format is not supported

Advanced multi-port feature is not supported `-LAG/ROCE_AFFILIATION/MPFS_LB/ESW_LB` (only traffic `vhca <-> wire`)

Packet types supported:

Layer 2 Eth

Layer 3 IPv4/IPv6/Grh

Layer 4 TCP/UDP/Bth/GreV0/GreV1

Tunneling VXLAN/Geneve/GREv0/Mpls

FlexParser protocols are not supported (e.g `AliVxlan/VxlanGpe` etc..).

Compiles only on x86

Congestion Control may not work properly if the card supports two ports and each PF for each port is not raised at the same time.

Known Issues for FW version 14.29.1016:

Low performance might be experienced when upgrading from previous firmware version to 14.29.1000 when using "Fast FW Reset".

Known Issues for FW version 16.29.1016:

When `PER_PF_NUM_SF=1` (per PF configurations are used for SFs), if the number of SFs configured for a PF is 0 (`PF_TOTAL_SF=0`), than the firmware wrongly opens BAR2 with size 128KB.

Multi-APP QoS is not supported when LAG is configured.

When configuring adapter card's Level Scheduling, a QoS tree leaf (QUEUE_GROUP) configured with default rate_limit and default bw_share, may not obey the QoS restrictions imposed by any of the leaf's ancestors.

Workaround: To prevent such a case, configure at least one of the following QoS attributes of a leaf: max_average_bw or bw_share.

Occasionally, Tag Matching RNDV and NVME emulation wasn't behaving as expected.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4/ConnectX5 firmware version 14.28.1002/16.28.1002 respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

ixes submitted in version 2.42.5044 :

An issue that prevented the firmware from detecting a link_down event thus preventing the IB bond interface from going to a failover mode.

Following issues have been fixed in firmware version 14.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An issue that caused packets to drop due to header size issues and/or failing checks. The issue was caused due to a Linux issue that caused VFs to set the wrong header size value in wqe_inline_header_mode input. When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs were configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

An issue that caused the device to go to dead IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Following issues have been fixed in firmware version 16.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An issue that prevented VXLAN packets with svlan/ cvlan tag from being matched.

The eth_wqe_too_small counter to count ODP page used to fail.

When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

An issue that resulted in low performance after enabling the RoCE Accelerator capability.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

The chassis manager calculation for Multi-Host and Socket-Direct adapter cards to allow running NC-SI commands by the chassis manager BMC. Now the chassis manager is count as BMC with index 0, regardless of how many BMC there are.

An issue that caused the device to go to dead IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Enhancements

Firmware for the following devices are updated to 2.42.5044 :

779799-B21 (HPE Ethernet 10G 2-port 546FLR-SFP+ Adapter)

779793-B21 (HPE Ethernet 10G 2-port 546SFP+ Adapter)

Firmware for the following devices are updated to 14.29.1016:

817749-B21 (HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter)

Firmware for the following devices are updated to 14.29.1016:

817753-B21 (HPE Ethernet 25Gb 2-port 640SFP28 Adapter)

Firmware for the following device is updated to 16.29.1016:

874253-B21 (HPE Ethernet 100Gb 1-port 842QSFP28 Adapter)

New features and changes in version 14.29.1016:

Added support for the following features:

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

cq_overflow counter: This counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

New features and changes in version 16.29.1016:

Added support for following features:

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

InfiniBand properties set to the Network Device Function Redfish object.

HW support for Flow Metering to utilize Advanced Steering Operation (ASO). HW Flow Meter allows higher scale, more accuracy, and better performance compare to the FW Flow Metering.

Trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

2 new Mini CQE formats: Responder Mini CQE With Flow Tag Layout Responder Mini CQE With I3_I4_info Layout

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Steering DP hash flow groups.

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

PCIe Rx modifications to prevent the adapter cards from disappearing from the system.

ignore_flow_level is now enabled by the TRUST LEVEL access registry.

cq_overflow counter. The counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

[Beta] Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

779793-B21

779799-B21

817749-B21

817753-B21

874253-B21

Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox VPI (Ethernet and Infiniband mode)

ConnectX4 and ConnectX5 devices on Linux x86_64 platform

Version: 1.0.10 (Recommended)

Important Note!

Known Issues with firmware version 12.28.1002:

When MKEY_BY_NAME is enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

Known Issues with firmware version 16.29.1016:

Multi-APP QoS is not supported when LAG is configured.

Sub 1sec firmware update (fast reset flow) is not supported when updating from previous releases to the current one. Doing so may cause network disconnection events.

Workaround: Use full reset flow for firmware upgrade/downgrade.

On systems with high PCIe latency (2us or above), lower bandwidth may be experienced.

Workaround: If such issue is observed:

o

Enable ZTT to overcome the high latency. Run: `mlxconfig -d set ZERO_TOUCH_TUNING_ENABLE=1`

Reset or power cycle the firmware for change to take effect

When PER_PF_NUM_SF=1 (per PF configurations are used for SFs), if the number of SFs configured for a PF is 0 (PF_TOTAL_SF=0), then the firmware wrongly opens BAR2 with size 128KB.

The following are the Steering Dump limitations:

Supported only on ConnectX-5 adapter cards

Requires passing the version (FW/Stelib/MFT) and device type to stelib

Re-format is not supported

Advanced multi-port feature is not supported -LAG/ROCE_AFFILIATION/MPFS_LB/ESW_LB (only traffic vhca <-> wire)

Packet types supported:

Layer 2 Eth

Layer 3 IPv4/IPv6/Grh

Layer 4 TCP/UDP/Bth/GreV0/GreV1

Tunneling VXLAN/Geneve/GREv0/Mpls

FlexParser protocols are not supported (e.g AliVxlan/VxlanGpe etc..).

Compiles only on x86

When configuring adapter card's Level Scheduling, a QoS tree leaf (QUEUE_GROUP) configured with default rate_limit and default bw_share, may not obey the QoS restrictions imposed by any of the leaf's ancestors.

Workaround: To prevent such a case, configure at least one of the following QoS attributes of a leaf: max_average_bw or bw_share.

Occasionally, Tag Matching RNDV and NVME emulation wasn't behaving as expected.

Congestion Control may not work properly if the card supports two ports and each PF for each port is not raised at the same time.

Fixes

Following issues have been fixed in firmware version 16.29.1016:

An issue that prevented VXLAN packets with svlan/ cvlan tag from being matched.

An issue that caused the eth_wqe_too_small counter to count ODP (On-Demand Paging) page faults.

When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

An issue that resulted in low performance after enabling the RoCE Accelerator capability. Note: The fix is available when all ports are set as Ethernet.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

The chassis manager calculation for Multi-Host and Socket-Direct adapter cards to allow running NC-SI commands by the chassis manager BMC. Now the chassis manager is count as BMC with index 0, regardless of how many BMC there are.

An issue that caused the device to go to down IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Following issues have been fixed in firmware version 12.28.1002:

An issue that caused the DCR to be destroyed before the retry option managed to work when the retry timeout is too big. In this case the DCR' time-to-live was increased, and the maximum retry timeout was decreased.

Increased PHY power consumption limit to 1.5w.

An issue that caused PortCounters.PortRcvErr / PPCNT.infiniband_counters.PortRcvErr not to report port icrc errors.

Enhancements

Firmware for the following devices are updated to 12.28.1002:

825110-B21 (HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter)

825111-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter)

New Feature and Changes in Version 12.28.1002:

Increased the maximum XRQ number to 512.

Firmware for the following devices are updated to 16.29.1016:

879482-B21 (HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter)

872726-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter)

New Feature and Changes in Version 16.29.1016:

Added support for the following features:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter `min_time_between_cnps` to 4 on all devices to support larger scalability of cluster.

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

InfiniBand properties set to the Network Device Function Redfish object.

HW support for Flow Metering to utilize Advanced Steering Operation (ASO). HW Flow Meter allows higher scale, more accuracy, and better performance compared to the FW Flow Metering.

Trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

2 new Mini CQE formats: Responder Mini CQE With Flow Tag Layout Responder Mini CQE With I3_I4_info Layout

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the `QUERY_HCA_VPORT_CONTEXT` command.

Steering DP hash flow groups.

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

PCIe Rx modifications to prevent the adapter cards from disappearing from the system.

`ignore_flow_level` is now enabled by the TRUST LEVEL access registry.

`cq_overrun` counter. The counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

[Beta] Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

825110-B21

825111-B21

872726-B21

879482-B21

Online Firmware Upgrade Utility (Linux x86_64) for HPE Mellanox VPI (Ethernet and Infiniband mode)

ConnectX6 devices on Linux x86_64 platform

Version: 1.0.6 (Recommended)

Important Note!

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

50GbE
100GbE/25GbE
40GbE/10GbE
1GbE
Port #2 - Ethernet
Port #1 - InfiniBand
HDR / HDR100
EDR
FDR
QDR/SDR

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX6 firmware version 20.27.6008. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

The following issues have been fixed in version 20.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter `min_time_between_cnps` to 4 on all devices to support larger scalability of cluster.

An issue that prevented VXLAN packets with `svlan/cvlan` tag from being matched.

The `eth_wqe_too_small` counter to count ODP (On-Demand Paging) page used to fail.

An issue related to raising 100GbE link on ConnectX-6 VPI 100Gb/s adapter cards.

When `MKEY_BY_NAME` was enabled by `NVCONFIG` and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when `MKEY_BY_NAME` is disabled.

Low performance occurred after enabling the RoCE Accelerator capability.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

Enhancements

Firmware for the following devices are updated to 20.29.1016:

New Features and Changes in Version 20.29.1016:

Added support for following features:

LinkX module burning via MFT toolset. The new capability enables direct firmware burning from the internal flash storage to reduce the bandwidth and accelerate the burning process, including burning several modules at a time.

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

Improved NRZ link performance (RX algorithm).

Improved NRZ link-up time (25G¥50G¥100G speeds).

Enabled the options to control different Tx sets for the same attribute when connecting a Mellanox-Mellanox vs Mellanox to 3rd party HCA.

InfiniBand properties set to the Network Device Function Redfish object.

Direct Packet Placement (DPP): DPP is a receive side transport service in which the Ethernet packets are

scattered to the memory according to a packet sequence number (PSN) carried by the packet, and not by their arrival order.

To enable DPP offload, the software should create a special RQ by using the CREATE_RQ command, and set DPP relevant attributes.

Added trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Enhanced IB Congestion Control to support lower minimum rate. Now it uses destination-lid to classify flows to handle larger scale, and achieve better results in GPCNeT benchmark.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

P06154-B21

P06250-B21

P06251-B21

Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox Ethernet only adapters

Version: 1.0.0.14 (Recommended)

Important Note!

The Firmware Upgrade Utility has been split into 2 packages for Mellanox Ethernet Only NIC adapters, one supporting Synergy platforms and the other supporting ProLiant and Apollo platforms. This package supports Mellanox Ethernet Only NIC adapters on ProLiant and Apollo servers.

Known Issues for FW version 2.42.5044 :

When using the QSFP module RTX320-581, and performing a driver restart for the firmware upgrade/downgrade to take effect, the link does not come up.

Enabling/disabling cq_timestamp using mlxconfig is not supported.

In a card with 2 separate LEDs scheme (a Phy LED and a logic LED) only the Phy LED will lit. Meaning, the orange LED will not be active while the ETH link is in an idle mode.

In SR-IOV setup, using mlxconfig when the PF is passed through to a VM requires a reboot of the Hypervisor.

Downgrade to previous GA requires server reboot. Downgrading from v2.30.8000 or later to an earlier version than 2.30.8000 requires server reboot. Reboot the server.

On ConnectX-3 Ethernet adapter cards, there is a mismatch between the GUID value returned by firmware management tools and that returned by fabric/driver utilities that read the GUID via device firmware (e.g., using ibstat). Mlxburn/flint return 0xffff as GUID while the utilities return a value derived from the MAC address. For all driver/firmware/software purposes, the latter value should be used.

SBR should be asserted for a minimum of 50 milliseconds for the ConnectX®-3 adapters

On Pilot1 SL230, PCIe link occasionally does not come up at Gen3 speed

RH6.3 Inbox driver causes kernel panic when SR-IOV is enabled on VPI cards due to driver compatibility issue.

When SR-IOV is disabled in the system BIOS, a PCI issue is noticed in Ubuntu v12.04.3 with Linux kernel v3.8 which affects NICs of several manufacturers including Mellanox's, preventing them from operating. MFT tools might leave the flash semaphore locked if the tool operation is forced stopped. The locked semaphore prevents the firmware from accessing the flash and causes firmware hang.

Cable Info MAD reports a wrong cable info when using the MC2210411-SR4 module

Gen2 failure at temperature sweep up to 10C/min (for MT27518A1-FDIR-BV only).

PCIe Gen2 link unstable at temperature sweep of 10C/min for MT27518A1-FDIR-BV

Bloom filter is currently not supported.

Firmware downgrade message When downgrading from firmware v2.11.0000 and using MFT 3.0.0-3

RM#DMFS should not be enabled when working with InfiniBand on MLNX_OFED-2.0.3

RM#VPD read-only fields are writable.

Increasing SymbolErrorCounter When working in VPI mode with port1 FDR and port2 40G, error counters misbehave and increase rapidly

Setting the device to 128Byte CQ/EQ stride will cause misbehavior of sideband management resulting in communication loss.

CQ and EQ cannot be configured to different stride sizes.

ConnectX-3 Pro VF device ID is presented the same as ConnectX-3 VF device ID due to driver limitations.

RSOD while running PXE (legacy) on G9 servers. This occurs only when PXE boot fails and BIOS boots from HDD. Currently it is pending BIOS fix.

Changing port protocol from ETH to IB on port with NCSI/IPMI enabled while the port is connected to ETH switch is not supported.

RDP over IPv6 is currently not functional.

Sniffer QP cannot be removed from the regular rule after adding the QP with insertion scheme equals to "push to that rule"

Since only a single Boot Entry Vector (BEV) per PCI Physical Function is supported, disabling the first port causes the second port to disappear as well.

The NIC does not notify the driver of a link-down incident when a cable is unplugged from a NIC port with 56GbE port link.

56GbE link is not raised when using 100GbE optic cables.

When working with MLNX_OFED v3.3-1.0.0.0, server reboot could get stuck due to a kernel panic in `mlx-4_en_get_drvinfo()` that is called from asynchronous event handler.

832298:When running `ibdump`, loopback traffic is mirroring into the kernel driver.

AHS reports wrong MTU size

RM#846523: MAC address that are set from the OS using `ifconfig` are not reflected in the OCBB buffer

Known Issues for FW version 14.29.1016 and 16.29.1016:

Sub 1sec firmware update (fast reset flow) is not supported when updating from previous releases to the current one. Doing so may cause network disconnection events.

Workaround: Use full reset flow for firmware upgrade/downgrade.

On systems with high PCIe latency (2us or above), lower bandwidth may be experienced.

Workaround: If such issue is observed:

o

Enable ZTT to overcome the high latency. Run: `mlxconfig -d set ZERO_TOUCH_TUNING_ENABLE=1`

Reset or power cycle the firmware for change to take effect

The following are the Steering Dump limitations:

Supported only on ConnectX-5 adapter cards

Requires passing the version (FW/Stelib/MFT) and device type to stelib

Re-format is not supported

Advanced multi-port feature is not supported -LAG/ROCE_AFFILIATION/MPFS_LB/ESW_LB (only traffic vhca <-> wire)

Packet types supported:

Layer 2 Eth

Layer 3 IPv4/IPv6/Grh

Layer 4 TCP/UDP/Bth/GreV0/GreV1

Tunneling VXLAN/Geneve/GREv0/Mpls

FlexParser protocols are not supported (e.g AliVxlan/VxlanGpe etc..).

Compiles only on x86

Congestion Control may not work properly if the card supports two ports and each PF for each port is not raised at the same time.

Known Issues for FW version 14.29.1016:

Low performance might be experienced when upgrading from previous firmware version to 14.29.1000 when using "Fast FW Reset".

Known Issues for FW version 16.29.1016:

When `PER_PF_NUM_SF=1` (per PF configurations are used for SFs), if the number of SFs configured for a PF is 0 (`PF_TOTAL_SF=0`), then the firmware wrongly opens BAR2 with size 128KB.

Multi-APP QoS is not supported when LAG is configured.

When configuring adapter card's Level Scheduling, a QoS tree leaf (`QUEUE_GROUP`) configured with default `rate_limit` and default `bw_share`, may not obey the QoS restrictions imposed by any of the leaf's ancestors.

Workaround: To prevent such a case, configure at least one of the following QoS attributes of a leaf: `max_average_bw` or `bw_share`.

Occasionally, Tag Matching RNDV and NVME emulation wasn't behaving as expected.

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX4/ConnectX5 firmware version 14.28.1002/16.28.1002 respectively. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

ixes submitted in version 2.42.5044 :

An issue that prevented the firmware from detecting a `link_down` event thus preventing the IB bond interface from going to a failover mode.

Following issues have been fixed in firmware version 14.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter

min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An issue that caused packets to drop due to header size issues and/or failing checks. The issue was caused due to a Linux issue that caused VFs to set the wrong header size value in wqe_inline_header_mode input. When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs were configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

An issue that caused the device to go to dead IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Following issues have been fixed in firmware version 16.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An issue that prevented VXLAN packets with svlan/ cvlan tag from being matched.

The eth_wqe_too_small counter to count ODP page used to fail.

When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

An issue that resulted in low performance after enabling the RoCE Accelerator capability.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

The chassis manager calculation for Multi-Host and Socket-Direct adapter cards to allow running NC-SI commands by the chassis manager BMC. Now the chassis manager is count as BMC with index 0, regardless of how many BMC there are.

An issue that caused the device to go to dead IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Enhancements

Firmware for the following devices are updated to 2.42.5044 :

779799-B21 (HPE Ethernet 10G 2-port 546FLR-SFP+ Adapter)

779793-B21 (HPE Ethernet 10G 2-port 546SFP+ Adapter)

Firmware for the following devices are updated to 14.29.1016:

817749-B21 (HPE Ethernet 25Gb 2-port 640FLR-SFP28 Adapter)

Firmware for the following devices are updated to 14.29.1016:

817753-B21 (HPE Ethernet 25Gb 2-port 640SFP28 Adapter)

Firmware for the following device is updated to 16.29.1016:

874253-B21 (HPE Ethernet 100Gb 1-port 842QSFP28 Adapter)

New features and changes in version 14.29.1016:

Added support for the following features:

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

cq_overrun counter: This counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

New features and changes in version 16.29.1016:

Added support for following features:

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

InfiniBand properties set to the Network Device Function Redfish object.

HW support for Flow Metering to utilize Advanced Steering Operation (ASO). HW Flow Meter allows higher scale, more accuracy, and better performance compare to the FW Flow Metering.

Trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

2 new Mini CQE formats: Responder Mini CQE With Flow Tag Layout Responder Mini CQE With I3_I4_info Layout

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Steering DP hash flow groups.

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause "CQE with Error" or "CQE MOCK".

PCIe Rx modifications to prevent the adapter cards from disappearing from the system.

ignore_flow_level is now enabled by the TRUST LEVEL access registry.

cq_overrun counter. The counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

[Beta] Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

779793-B21

779799-B21

817749-B21

817753-B21

874253-B21

Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox VPI (Ethernet and Infiniband mode) ConnectX4 and ConnectX5 devices on Windows x86_64 platform

Version: 1.0.0.9 (Recommended)

Important Note!

Known Issues with firmware version 12.28.1002:

When MKEY_BY_NAME is enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

Known Issues with firmware version 16.29.1016:

Multi-APP QoS is not supported when LAG is configured.

Sub 1sec firmware update (fast reset flow) is not supported when updating from previous releases to the current one. Doing so may cause network disconnection events.

Workaround: Use full reset flow for firmware upgrade/downgrade.

On systems with high PCIe latency (2us or above), lower bandwidth may be experienced.

Workaround: If such issue is observed:

o

Enable ZTT to overcome the high latency. Run: `mlxconfig -d set ZERO_TOUCH_TUNING_ENABLE=1`

Reset or power cycle the firmware for change to take effect

When `PER_PF_NUM_SF=1` (per PF configurations are used for SFs), if the number of SFs configured for a PF is 0 (`PF_TOTAL_SF=0`), then the firmware wrongly opens BAR2 with size 128KB.

The following are the Steering Dump limitations:

Supported only on ConnectX-5 adapter cards

Requires passing the version (FW/Stelib/MFT) and device type to stelib

Re-format is not supported

Advanced multi-port feature is not supported -LAG/ROCE_AFFILIATION/MPFS_LB/ESW_LB (only traffic `vhca <-> wire`)

Packet types supported:

Layer 2 Eth

Layer 3 IPv4/Ipv6/Grh

Layer 4 TCP/UDP/Bth/GreV0/GreV1

Tunneling VXLAN/Geneve/GREv0/Mpls

FlexParser protocols are not supported (e.g AliVxlan/VxlanGpe etc..).

Compiles only on x86

When configuring adapter card's Level Scheduling, a QoS tree leaf (`QUEUE_GROUP`) configured with default `rate_limit` and default `bw_share`, may not obey the QoS restrictions imposed by any of the leaf's ancestors.

Workaround: To prevent such a case, configure at least one of the following QoS attributes of a leaf: `max_average_bw` or `bw_share`.

Occasionally, Tag Matching RNDV and NVME emulation wasn't behaving as expected.

Congestion Control may not work properly if the card supports two ports and each PF for each port is not raised at the same time.

Fixes

Following issues have been fixed in firmware version 16.29.1016:

An issue that prevented VXLAN packets with `svlan/ cvlan` tag from being matched.

An issue that caused the `eth_wqe_too_small` counter to count ODP (On-Demand Paging) page faults.

When `MKEY_BY_NAME` was enabled by `NVCONFIG` and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when `MKEY_BY_NAME` is disabled.

An issue that resulted in low performance after enabling the RoCE Accelerator capability. Note: The fix is

available when all ports are set as Ethernet.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR. The chassis manager calculation for Multi-Host and Socket-Direct adapter cards to allow running NC-SI commands by the chassis manager BMC. Now the chassis manager is count as BMC with index 0, regardless of how many BMC there are.

An issue that caused the device to go to down IRISC as one of the firmware semaphores could not be released when a speed change or port state change was triggered.

Following issues have been fixed in firmware version 12.28.1002:

An issue that caused the DCR to be destroyed before the retry option managed to work when the retry timeout is too big. In this case the DCR' time-to-live was increased, and the maximum retry timeout was decreased.

Increased PHY power consumption limit to 1.5w.

An issue that caused PortCounters.PortRcvErr / PPCNT.infiniband_counters.PortRcvErr not to report port icrc errors.

Enhancements

Firmware for the following devices are updated to 12.28.1002:

825110-B21 (HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter)

825111-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter)

New Feature and Changes in Version 12.28.1002:

Increased the maximum XRQ number to 512.

Firmware for the following devices are updated to 16.29.1016:

879482-B21 (HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter)

872726-B21 (HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter)

New Feature and Changes in Version 16.29.1016:

Added support for the following features:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

InfiniBand properties set to the Network Device Function Redfish object.

HW support for Flow Metering to utilize Advanced Steering Operation (ASO). HW Flow Meter allows higher scale, more accuracy, and better performance compared to the FW Flow Metering.

Trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

2 new Mini CQE formats: Responder Mini CQE With Flow Tag Layout Responder Mini CQE With I3_I4_info Layout

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Steering DP hash flow groups.

A new counter per vPort that counts the number of packets that reached the Ethernet RQ but cannot fit into the WQE due to their large size. Additionally, we added the option to control if such packet will cause

“CQE with Error” or “CQE MOCK”.

PCIe Rx modifications to prevent the adapter cards from disappearing from the system.

ignore_flow_level is now enabled by the TRUST LEVEL access registry.

cq_overnrun counter. The counter represents the number of times CQs enter an error state due to overflow that occur when the device tries to post a CQE into a full CQ buffer.

[Beta] Enabled the capability to allow Virtual Functions to send Pause Frames packets.

Enabled 10/25GbE auto-sensing with 3rd party when using 10/25GbE optical cables.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

825110-B21

825111-B21

872726-B21

879482-B21

Online Firmware Upgrade Utility (Windows x64) for HPE Mellanox VPI (Ethernet and Infiniband mode)

ConnectX6 devices on Windows x86_64 platform

Version: 1.0.0.3 (Recommended)

Important Note!

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

50GbE

100GbE/25GbE

40GbE/10GbE

1GbE

Port #2 - Ethernet

Port #1 - InfiniBand

HDR / HDR100

EDR

FDR

QDR/SDR

Prerequisites

Use iLO5 firmware version 2.30 or higher with ConnectX6 firmware version 20.27.6008. Thermal sensor reporting on the adapter will not be functional with older versions of iLO5 firmware.

Fixes

The following issues have been fixed in version 20.29.1016:

Changed the default value of DCQCN's (Data center- Quantized Congestion Notification) NP parameter

min_time_between_cnps to 4 on all devices to support larger scalability of cluster.

An issue that prevented VXLAN packets with svlan/cvlan tag from being matched.

The eth_wqe_too_small counter to count ODP (On-Demand Paging) page used to fail.

An issue related to raising 100GbE link on ConnectX-6 VPI 100Gb/s adapter cards.

When MKEY_BY_NAME was enabled by NVCONFIG and a large number of VFs are configured, VM restart (VF/PF FLR) will take longer than when MKEY_BY_NAME is disabled.

Low performance occurred after enabling the RoCE Accelerator capability.

On rare cases, a fatal error related to errors from the PCI transport layer might be reported during FLR.

Enhancements

Firmware for the following devices are updated to 20.29.1016:

New Features and Changes in Version 20.29.1016:

Added support for following features:

LinkX module burning via MFT toolset. The new capability enables direct firmware burning from the internal flash storage to reduce the bandwidth and accelerate the burning process, including burning several modules at a time.

An option to allow applications to build their own QoS tree over the NIC hierarchy by connecting QPs to responder/requestor Queue Groups.

Improved NRZ link performance (RX algorithm).

Improved NRZ link-up time (25G¥50G¥100G speeds).

Enabled the options to control different Tx sets for the same attribute when connecting a Mellanox-Mellanox vs Mellanox to 3rd party HCA.

InfiniBand properties set to the Network Device Function Redfish object.

Direct Packet Placement (DPP): DPP is a receive side transport service in which the Ethernet packets are scattered to the memory according to a packet sequence number (PSN) carried by the packet, and not by their arrival order.

To enable DPP offload, the software should create a special RQ by using the CREATE_RQ command, and set DPP relevant attributes.

Added trust level for VFs. Once the VF is trusted, it will get a set of trusted capabilities.

UCX can now enable AR by exposing Out-Of-Ordering bitmask per SL with "ooo_per_sl" field in the HCA_VPORT context. It can be also queried by running the QUERY_HCA_VPORT_CONTEXT command.

Enhanced IB Congestion Control to support lower minimum rate. Now it uses destination-lid to classify flows to handle larger scale, and achieve better results in GPCNeT benchmark.

Hardware steering dump output used for debugging and troubleshooting.

Supported Devices and Features

HPE Part Number

P06154-B21

P06250-B21

P06251-B21

Online NVMe SSD Flash Component for Linux (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives

Version: HPK4 (E) (Recommended)

Enhancements

Added support for RHEL 8.3

Online NVMe SSD Flash Component for Linux (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives

Version: HPK4 (E) (Recommended)

Enhancements

Added support for RHEL 8.3

Online NVMe SSD Flash Component for Linux (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives

Version: HPS1 (E) (Recommended)

Enhancements

Added support for RHEL 8.3

Online NVMe SSD Flash Component for Linux (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives

Version: 4ICDHPK1 (Critical)

Fixes

This firmware corrects the potential for a drive to become disabled and nonfunctional during certain conditions or workloads.

After the drive is upgraded to firmware version HPK1, it cannot be downgraded to firmware version HPK0.

Enhancements

Added support for RHEL 8.3

Online NVMe SSD Flash Component for VMware ESXi - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives

Version: HPK4 (F) (Recommended)

Important Note!

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

Enhancements

Added support for VMware 7.0 U1

Online NVMe SSD Flash Component for VMware ESXi - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives

Version: HPS1 (E) (Recommended)

Important Note!

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

Enhancements

Added support for VMware 7.0 U1

Online NVMe SSD Flash Component for VMware ESXi - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives

Version: HPK4 (D) (Recommended)

Important Note!

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

Enhancements

Added support for VMware 7.0 U1

Online NVMe SSD Flash Component for Windows (x64) - MK000400KWDUK, VK000480KWDUE, MK000800KWDUL, VK000960KWDUF, MK001600KWDUN and VK001920KWDUH Drives

Version: HPK4 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Windows 2019.

Online NVMe SSD Flash Component for Windows (x64) - MO0400KEFHN, MO0800KEFHP, MO1600KEFHQ, MO2000KEFHR, MT0800KEXUU and MT1600KEXUV Drives

Version: HPK4 (C) (Recommended)

Enhancements

Added support for Microsoft Windows Server 2019.

Online NVMe SSD Flash Component for Windows (x64) - MT001600KWHAC, MT003200KWHAD and MT006400KWHAE Drives

Version: HPS1 (C) (Recommended)

Enhancements

Added support for Windows Server 2019.

Online NVMe SSD Flash Component for Windows (x64) - VS000480KWDUP, VS000960KWDUQ, MS000400KWDUR and MS000800KWDUT Drives

Version: HPK4 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Windows 2019.

Online NVMe SSD Flash Component for Windows (x64) - LO0400KEFJQ, LO0800KEFJR, LO1600KEFJT, LO2000KEFJU, LT0800KEXVA, LT1600KEXVB, and LT2000KEXVC Drives

Version: HPK4 (C) (Recommended)

Enhancements

Added support for Microsoft Windows Server 2019.

Online NVMe SSD Flash Component for Windows (x64) - VO001000KWJSE, VO002000KWJSF, VO004000KWJSH, VT004000KWJSU, MO001600KWJSN and MO003200KWJSQ Drives

Version: 4ICDHPK1 (Critical)

Fixes

This firmware corrects the potential for a drive to become disabled and nonfunctional during certain conditions or workloads.

After the drive is upgraded to firmware version HPK1, it cannot be downgraded to firmware version HPK0.

Enhancements

Added support for Windows 2019.

Online NVMe SSD Flash Component for Windows (x64) - VO0400KEFJB, VO1200KEFJC and VO2000KEFJD Drives

Version: HPK4 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Microsoft Windows Server 2019.

Online NVMe SSD Flash Component for Windows (x64) - VS000480KXALB drive

Version: 85030G00 (C) (Recommended)

Enhancements

Added Support for Windows Server 2019.

ROM Flash Firmware Package - Advanced Power Capping Microcontroller Firmware for HPE Gen10 Servers

Version: 1.0.7 (Optional)

Enhancements

Version 1.0.7 firmware

Online HDD/SDD Flash Component for VMware ESXi - MB6000JVYZD and MB4000JVYZC Drives

Version: HPD4 (F) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for Linux (x64) - EG000300JWBHR Drive

Version: HPD4 (E) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG000300JWFVB Drive

Version: HPD2 (F) (Optional)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG000600JWFUV and EG001200JWFVA Drives

Version: HPD3 (F) (Optional)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

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

Version: HPD3 (C) (Recommended)

Important Note!

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

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

Enhancements

Added Support for RHEL 8.3

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

Version: HPD5 (C) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG0600JETKA, EG0900JETKB and EG1200JETKC Drives

Version: HPD7 (E) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives

Version: HPD2 (E) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

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

Version: HPD3 (C) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB004000JWFVK and MB006000JWFVL Drives

Version: HPD3 (C) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB6000JVYZD and MB4000JVYZC Drives

Version: HPD4 (E) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

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

Version: HPD8 (F) (Optional)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives

Version: HPD3 (B) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VO000960JWTBK, VO001920JWTBL, VO003840JWTBN, VO007680JWTBP, MO000400JWTBQ, MO000800JWTR, MO001600JWTR, MO003200JWTR, MO006400JWTR, EO000400JWTR, EO000800JWTR and EO001600JWTR Drives

Version: HPD7 (F) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives

Version: HPD7 (C) (Critical)

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

The issue affects SSDs with an HPE firmware version prior to HPD7 that results in SSD failure at 40,000 hours of operation (i.e., 4 years, 205 days 16 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive

Version: HPD2 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG001800JWFVC Drive

Version: HPD3 (F) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG001800JWJNL and EG002400JWJNN Drives

Version: HPD2 (E) (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..

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FC SPL and EG0900FCSPN Drives

Version: HPD2 (G) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB and EG1200JEHMC Drives

Version: HPD5 (H) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives

Version: HPD6 (H) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG1800JEHMD Drive

Version: HPD6 (H) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG1800JEMDB Drive

Version: HPD5 (G) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EG1800JFHMH Drive

Version: HPD7 (F) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives

Version: HPD6 (B) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EH000600JWCPF and EH000900JWCPH Drives

Version: HPD8 (B) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EH000900JWHPK and EH000600JWHPH Drives

Version: HPD4 (C) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives

Version: HPD4 (C) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives

Version: HPD5 (G) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives

Version: HPD6 (H) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives

Version: HPD4 (H) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - EH0600JDYTN Drive

Version: HPD7 (G) (Critical)

Important Note!

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

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

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

Fixes

Fixes a data integrity risk where stale data is mistakenly used from cache.

Fixes a data integrity risk where stale data is returned on an unaligned overlapped write-read operation.

Fixes a data integrity risk during a sequential read and write workload when a recovered error is encountered, which could cause incomplete data to be read.

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB004000JWKGU Drive

Version: HPD1 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives

Version: HPD4 (B) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB006000JWKGN Drive

Version: HPD1 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB008000JWJRQ and MB006000JWJRP 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.

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

This firmware release provides additional protections against hangs in certain corner cases, and cleans up some error handling and command behavior issues.

Online HDD/SSD Flash Component for Linux (x64) - MB008000JWRTD Drive

Version: HPD1 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

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

Version: HPD2 (C) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB010000JWAYK and MB008000JWAYH Drives

Version: HPD5 (F) (Critical)

Important Note!

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

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

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

Fixes

This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB012000JWDFD Drive

Version: HPD2 (F) (Critical)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

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

Fixes

Corrects a potential data integrity issue during unaligned write commands, only found in supplier ongoing lab testing. Includes additional fixes to improve error handling and reliability.

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives

Version: HPD2 (E) (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..

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB014000JWUDB Drive

Version: HPD2 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives

Version: HPD3 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB2000JFDSL and MB4000JFDSN Drives

Version: HPD4 (G) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB2000JFEML and MB4000JFEMN Drives

Version: HPD6 (G) (Critical)

Important Note!

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

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

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.

The firmware also includes emergency power off improvements.

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB2000JFEPA and MB4000JFEPB Drives

Version: HPD5 (G) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB4000JEFNC and MB6000JEFND Drives

Version: HPD9 (G) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB4000JEQNL and MB6000JEQNN Drives

Version: HPDB (G) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB4000JEXYA and MB6000JEXYB Drives

Version: HPD9 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB6000JEQUV and MB8000JEQVA Drives

Version: HPDB (G) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB6000JVYYV Drive

Version: HPD2 (G) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB8000JFECQ Drive

Version: HPD7 (F) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

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

Version: HPD3 (F) (Optional)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

**Online HDD/SSD Flash Component for Linux (x64) - MO000400JWFVN, MO000800JWFVP,
MO001600JFWQ, MO003200JFWR, MO000960JFWT, MO001920JFWU and MO003840JFWV**

Drives

Version: HPD5 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

**Online HDD/SSD Flash Component for Linux (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JFPB,
MO1600JFPC, EO0200JFPD, EO0400JFPE and EO0800JFPF Drives**

Version: HPD3 (G) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

**Online HDD/SSD Flash Component for Linux (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and
MO3200JFFCL Drives**

Version: HPD9 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives

Version: HPD8 (D) (Critical)

Important Note!

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

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

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

Fixes

The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

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

https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00092491en_us

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives

Version: HPD8 (C) (Critical)

Important Note!

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

Online drive firmware update available for Smart Array Controllers configured in systems running

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

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

Fixes

The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

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

https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00092491en_us

Enhancements

Added support for RHEL 8.3

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

Version: HPD3 (C) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VO007680JWCNK and VO015300JWCNL Drives

Version: HPD8 (C) (Critical)

Important Note!

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

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

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

(D) etc..

Fixes

The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

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

URL:https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00092491en_us

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives

Version: HPD9 (C) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VO1920JEUQQ Drive

Version: HPD3 (G) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for VMware ESXi - EG000300JWBHR Drive

Version: HPD4 (F) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG000300JWFVB Drive

Version: HPD2 (G) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG000600JWFUV and EG001200JWFVA Drives

Version: HPD3 (G) (Optional)

Important Note!

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

for these configurations.

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG000600JWJNP and EG001200JWJNQ Drives

Version: HPD3 (D) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNR and EG002400JWJNT Drives

Version: HPD5 (D) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG0600JETKA, EG0900JETKB and EG1200JETKC Drives

Version: HPD7 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EH000900JWHPK and EH000600JWHPH Drives

Version: HPD4 (D) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EH000900JWHPH, EH000600JWHPN and EH000300JWHPL Drives

Version: HPD4 (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EH0600JDYTN Drive

Version: HPD7 (G) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

Fixes a data integrity risk where stale data is mistakenly used from cache.

Fixes a data integrity risk where stale data is returned on an unaligned overlapped write-read operation.

Fixes a data integrity risk during a sequential read and write workload when a recovered error is encountered, which could cause incomplete data to be read.™™

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives

Version: HPD2 (E) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

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

Version: HPD3 (D) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB004000JWFVK and MB006000JWFVL Drives

Version: HPD3 (D) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB012000JWDFD Drive

Version: HPD2 (F) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

Corrects a potential data integrity issue during unaligned write commands, found in supplier ongoing lab testing. Includes additional fixes to improve error handling and reliability.

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB2000JFEML and MB4000JFEMN Drives

Version: HPD6 (H) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.

The firmware also includes emergency power off improvements.

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB4000JEQNL and MB6000JEQNN Drives

Version: HPDB (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB6000JEQUV and MB8000JEQVA Drives

Version: HPDB (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

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

Version: HPD8 (G) (Optional)

Important Note!

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

for these configurations.

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

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

Version: HPD3 (G) (Optional)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE 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.

In AHCI configuration only offline flashing is supported.

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

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

(D) etc..

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VO000960JWBK, VO001920JWBTL, VO003840JWBNT, VO007680JWBTP, MO000400JWBQ, MO000800JWBTR, MO001600JWBTT, MO003200JWBTV, MO006400JWBTC, EO000400JWBV, EO000800JWBTC, EO001600JWBTCB Drives

Version: HPD7 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drive

Version: HPD2 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG001800JWFVC Drive

Version: HPD3 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG001800JWJNL and EG002400JWJNN Drive

Version: HPD2 (F) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG0300FCSPH, EG0450FCSPK, EG0600FC SPL and EG0900FCSPN Drives

Version: HPD2 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB, and EG1200JEHMC Drives

Version: HPD5 (I) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives

Version: HPD6 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG1800JEHMD Drive

Version: HPD6 (I) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG1800JEMDB Drive

Version: HPD5 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EG1800JFHMH Drive

Version: HPD7 (G) (Recommended)

Important Note!

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

for these configurations.

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives

Version: HPD6 (B) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EH000600JWCPF and EH000900JWCPH Drives

Version: HPD8 (B) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives

Version: HPD5 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives

Version: HPD6 (I) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives

Version: HPD4 (I) (Recommended)

Important Note!

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

for these configurations.

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives

Version: HPD7 (C) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

The issue affects SSDs with an HPE firmware version prior to HPD7 that results in SSD failure at 40,000 hours of operation (i.e., 4 years, 205 days 16 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB004000JWKGU Drive

Version: HPD1 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives

Version: HPD4 (B) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB006000JWKGN Drive

Version: HPD1 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB008000JWJRQ and MB006000JWJRP 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

This firmware release provides additional protections against hangs in certain corner cases, and cleans up some error handling and command behavior issues.

Online HDD/SSD Flash Component for VMware ESXi - MB008000JWRD Drive

Version: HPD1 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

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

Version: HPD2 (C) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB010000JWAYK and MB008000JWAYH Drives

Version: HPD5 (F) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB014000JWUDB Drive

Version: HPD2 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives

Version: HPD3 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB2000JFDSL and MB4000JFDSN Drives

Version: HPD4 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB2000JFEPA and MB4000JFEPB Drives

Version: HPD5 (H) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB4000JEFNC and MB6000JEFND Drives

Version: HPD9 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB4000JEXYA and MB6000JEXYB Drives

Version: HPD9 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB6000JVYYV Drive

Version: HPD2 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB8000JFECQ Drive

Version: HPD7 (G) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVW Drives

Version: HPD5 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MO0200JEFNV, MO0400JEFPA, MO0800JFPB, MO1600JFPC, EO0200JEPD, EO0400JEFPE and EO0800JEPF Drives

Version: HPD3 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives

Version: HPD9 (C) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

Online drive firmware update available for Smart Array Controllers configured in systems running

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives

Version: HPD8 (D) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

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

https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00092491en_us

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives

Version: HPD8 (F) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

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

https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00092491en_us

Enhancements

Added support for VMware 7.0 U1

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

Version: HPD3 (D) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VO007680JWCNK and VO015300JWCNL Drives

Version: HPD8 (D) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

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

URL:https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00092491en_us

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives

Version: HPD9 (C) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VO1920JEUQQ Drive

Version: HPD3 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi -MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives

Version: HPD2 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for Windows (x64) - EG000300JWBHR Drive

Version: HPD4 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG000300JWFVB Drive

Version: HPD2 (E) (Optional)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG000300JWSJP, EG000600JWJNH and EG001200JWJNK Drives

Version: HPD2 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG000600JWFUV and EG001200JWFVA Drives

Version: HPD3 (E) (Optional)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

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

Version: HPD3 (C) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG001800JWFVC Drive

Version: HPD3 (D) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG001800JWJNL and EG002400JWJNN Drives

Version: HPD2 (E) (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..

Enhancements

Added support for Windows Server 2019.

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

Version: HPD5 (C) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG0300FCSPH, EG0450FCSPK, EG0600FCSPL and EG0900FCSPN Drives

Version: HPD2 (F) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG0300JEHLV, EG0600JEHMA, EG0900JEHMB and EG1200JEHMC Drives

Version: HPD5 (G) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG0300JFCKA, EG0600JEMCV, EG0900JFCKB and EG1200JEMDA Drives

Version: HPD6 (F) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG0600JETKA, EG0900JETKB and EG1200JETKC Drives

Version: HPD7 (D) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG1800JEHMD Drive

Version: HPD6 (G) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG1800JEMDB Drive

Version: HPD5 (F) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EG1800JFHMH Drive

Version: HPD7 (F) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EH000300JWCPK, EH000600JWCPL and EH000900JWCPN Drives

Version: HPD6 (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..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EH000600JWCPF and EH000900JWCPH Drives

Version: HPD8 (B) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EH000900JWHPK and EH000600JWHPH Drives

Version: HPD4 (C) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EH000900JWHPP, EH000600JWHPN and EH000300JWHPL Drives

Version: HPD4 (C) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EH0300JDXBA, EH0450JDXBB and EH0600JDXBC Drives

Version: HPD5 (F) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EH0300JDYTH, EH0450JDYTK and EH0600JDYTL Drives

Version: HPD6 (G) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EH0300JEDHC, EH0450JEDHD and EH0600JEDHE Drives

Version: HPD4 (H) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EH0600JDYTN Drive

Version: HPD7 (E) (Critical)

Important Note!

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

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

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

Fixes

Fixes a data integrity risk where stale data is mistakenly used from cache.

Fixes a data integrity risk where stale data is returned on an unaligned overlapped write-read operation.

Fixes a data integrity risk during a sequential read and write workload when a recovered error is encountered, which could cause incomplete data to be read.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EK0800JVYPN, EO1600JVYPP, MK0800JVYPQ and MO1600JVYPR Drives

Version: HPD7 (C) (Critical)

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

The issue affects SSDs with an HPE firmware version prior to HPD7 that results in SSD failure at 40,000 hours of operation (i.e., 4 years, 205 days 16 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - EO000400JWDKP, EO000800JWDKQ, EO001600JWDKR, MO000400JWDKU, MO000800JWDKV, MO001600JWDLA and MO003200JWDLB Drives

Version: HPD2 (D) (Recommended)

Important Note!

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

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline

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

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

Enhancements

Added support for Windows Server 2019.

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

Version: HPD3 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Windows server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB004000JWFVK and MB006000JWFVL Drives

Version: HPD3 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Windows server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB004000JWKGU Drive

Version: HPD1 (D) (Recommended)

Important Note!

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

for these configurations.

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB004000JWWQB, MB002000JWWQA and MB001000JWWPV Drives

Version: HPD4 (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..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB006000JWKGN Drive

Version: HPD1 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB008000JWJRQ and MB006000JWJRP 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.

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

This firmware release provides additional protections against hangs in certain corner cases, and cleans up some error handling and command behavior issues.

Online HDD/SSD Flash Component for Windows (x64) - MB008000JWRTD Drive

Version: HPD1 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

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

Version: HPD2 (C) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB010000JWAYK and MB008000JWAYH Drives

Version: HPD5 (E) (Critical)

Important Note!

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

Fixes

This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB012000JWDFD Drive

Version: HPD2 (E) (Critical)

Important Note!

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

Fixes

Corrects a potential data integrity issue during unaligned write commands, found in supplier ongoing lab testing. Includes additional fixes to improve error handling and reliability.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB014000JWRTH, MB012000JWRTF and MB010000JWRTE Drives

Version: HPD2 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB014000JWUDB Drive

Version: HPD2 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB1000JVYZL, MB2000JVYZN, MB3000JVYZP and MB4000JVYZQ Drives

Version: HPD3 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB2000JFDSL and MB4000JFDSN Drives

Version: HPD4 (F) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB2000JFEML and MB4000JFEMN Drives

Version: HPD6 (F) (Critical)

Important Note!

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

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

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.

The firmware also includes emergency power off improvements.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB2000JFEPA and MB4000JFEPB Drives

Version: HPD5 (F) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB4000JEFNC and MB6000JEFND Drives

Version: HPD9 (F) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB4000JEQNL and MB6000JEQNN Drives

Version: HPDB (F) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB4000JEXYA and MB6000JEXYB Drives

Version: HPD9 (D) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB6000JEQUV and MB8000JEQVA Drives

Version: HPDB (F) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB6000JVYYV Drive

Version: HPD2 (F) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB6000JVYZD and MB4000JVYZC Drives

Version: HPD4 (D) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB8000JFECQ Drive

Version: HPD7 (E) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

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

Version: HPD8 (E) (Optional)

Important Note!

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

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

(D) etc.,

Enhancements

Added support for Windows Server 2019.

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

Version: HPD3 (E) (Optional)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MO000400JWFVN, MO000800JWFVP, MO001600JWFVQ, MO003200JWFVR, MO000960JWFVT, MO001920JWFVU and MO003840JWFVW Drives

Version: HPD5 (D) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MO000400JWUFT, MO000800JWUFU, MO001600JWUFV, MO003200JWUGA, MO006400JWUGB, EO000400JWUGC, EO000800JWUGD and EO001600JWUGE Drives

Version: HPD3 (B) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MO0200JEFNV, MO0400JEFPA, MO0800JFPB, MO1600JFPC, EO0200JFPD, EO0400JEFPE and EO0800JFPP Drives

Version: HPD3 (F) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MO0400JFFCF, MO0800JFFCH, MO1600JFFCK and MO3200JFFCL Drives

Version: HPD9 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK000960JWSSQ, VK001920JWSSR, VK003840JWSST, VK007680JWSSU and VO015300JWSSV Drives

Version: HPD8 (C) (Critical)

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

The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

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

https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00092491en_us

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VO000480JWDAR, VO000960JWDAT, VO001920JWDAU and VO003840JWDAV Drives

Version: HPD8 (C) (Critical)

Fixes

The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

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

https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00092491en_us

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VO000960JWTBK, VO001920JWTBL, VO003840JWTBN, VO007680JWTBP, MO000400JWTBQ, MO000800JWTBR, MO001600JWTBT, MO003200JWTBU, MO006400JWTCB, EO000400JWTCV, EO000800JWTCB and EO001600JWTCB Drives

Version: HPD7 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

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

Version: HPD3 (C) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019

Online HDD/SSD Flash Component for Windows (x64) - VO007680JWCNK and VO015300JWCNL Drives

Version: HPD8 (C) (Critical)

Important Note!

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

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

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

Fixes

The issue affects SSDs with an HPE firmware version prior to HPD8 that results in SSD failure at 32,768 hours of operation (i.e., 3 years, 270 days 8 hours), neither the SSD nor the data can be recovered, after the SSD failure occurs.

In addition, SSDs which were put into service at the same time will likely fail nearly simultaneously.

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

https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00092491en_us

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VO0480JFDGT, VO0960JFDGU, VO1920JFDGV and VO3840JFDHA Drives

Version: HPD9 (C) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VO1920JEUQQ Drive

Version: HPD3 (F) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Linux (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPF and EK001600GWEPH Drives

Version: HPG3 (F) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB001000GWCBC and MB002000GWCBD Drives

Version: HPG6 (E) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB001000GFWFK and MB002000GFWFL Drives

Version: HPG6 (D) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

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

Version: HPG1 (E) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB002000GWFGH and MB001000GWFGF Drives

Version: HPG3 (G) (Optional)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

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

Version: HPG1 (D) (Recommended)

Important Note!

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

for these configurations.

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives

Version: HPG3 (B) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB006000GWBXQ and MB008000GWBXL Drives

Version: HPG8 (E) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB006000GWJRR and MB008000GWJRT Drives

Version: HPG4 (C) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

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

Version: HPG1 (D) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB008000GWRTC Drive

Version: HPG1 (D) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB008000GWWQU and MB006000GWWQT Drives

Version: HPG2 (C) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB010000GWAYN and MB008000GWAYL Drives

Version: HPG5 (F) (Critical)

Important Note!

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

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

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

Fixes

This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

Enhancements

Added support for RHEL 8.3

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

Version: HPG2 (F) (Recommended)

Important Note!

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

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline

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

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

Enhancements

Added support for RHEL8.3

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

Version: HPG7 (B) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives

Version: HPG2 (E) (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..

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB014000GWUDA Drive

Version: HPG2 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives

Version: HPG4 (I) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives

Version: HPG4 (I) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB2000GCWLT, MB3000GCWLU and MB4000GCWLV Drives

Version: HPG4 (I) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB2000GFEMH and MB4000GFEMK Drives

Version: HPG6 (H) (Critical)

Important Note!

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

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.

- o The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB4000GEFNA and MB6000GEFNB Drives

Version: HPG6 (I) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB4000GEQNH and MB6000GEQNK Drives

Version: HPGB (H) (Critical)

Important Note!

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

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.

- o The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB6000GEBTP Drive

Version: HPG4 (H) (Recommended)

Important Note!

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

(D) etc..

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB6000GEQUT and MB8000GEQUU Drives

Version: HPGB (H) (Critical)

Important Note!

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

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was only found during supplier ongoing reliability testing.

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB6000GEXXV Drive

Version: HPG2 (I) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB6000GVYYU Drive

Version: HPG2 (H) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB6000GVYZB and MB4000GVYZA Drives

Version: HPG4 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MB8000GFECR Drive

Version: HPG6 (E) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFFB Drives

Version: HPG3 (F) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

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

Version: HPG3 (B) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

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

Version: HPG1 (C) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MK003840GWHTe Drive

Version: HPG6 (D) (Recommended)

Important Note!

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

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..

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MK0960GECQK Drive

Version: HPG3 (J) (Critical)

Important Note!

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

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

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

Fixes

Firmware fixes intermittent data corruption issue associated with unaligned sequential write operations.

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MM1000GEFQV and MM2000GEFRA Drives

Version: HPG8 (G) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

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

Version: HPG5 (E) (Optional)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives

Version: HPGE (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives

Version: HPG1 (E) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWCFD, VK000480GWCFE, VK000960GWCFE, VK001920GWCFH and VK003840GWCFK Drives

Version: HPG3 (F) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives

Version: HPGE (E) (Recommended)

Important Note!

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

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

(D) etc..

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPP Drives

Version: HPG5 (E) (Critical)

Important Note!

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

Fixes

Fixes a rare link loss issue and adds enhancements for drive reliability.

After HPG5 firmware is downloaded to the drive, the new HPG5 firmware will be active on the drive. The new drive bootloader code will be activated after the next drive power cycle. For more information, refer to HPE Customer Advisory at the following URL:
https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00072768en_us

Enhancements

Added support for RHEL 8.3

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

Version: HPG4 (B) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTTK, MK001920GWTTTL and MK003840GWTTN Drives

Version: HPG6 (B) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives

Version: HPG2 (E) (Recommended)

Important Note!

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD 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

This maintenance FW release addresses a rare corner case COMRESET issue at warm boot, and to address an early EOL behavior under certain use cases.

Online HDD/SSD Flash Component for Linux (x64) - VK003840GWSXL Drive

Version: HPG2 (E) (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..

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK007680GWSXN Drive

Version: HPG2 (E) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives

Version: HPG1 (I) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives

Version: HPG1 (H) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - VR000150GWEPP and VR000480GWEPR Drives

Version: HPG1 (F) (Critical)

Important Note!

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

Fixes

Fixes an issue which caused the drive to become non-functional.

Fixes VPD Log D0h reported drive Sanitize times.

Adds support for Security Log Page BBh.

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for Linux (x64) - XP0120GFJSL and XP0240GFJSN Drives

Version: HPS4 (I) (Recommended)

Important Note!

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

Enhancements

Added support for RHEL 8.3

Online HDD/SSD Flash Component for VMware ESXi - EK000200GWEPD, EK000400GWEPE, EK000800GWEPE and EK001600GWEPH Drives

Version: HPG3 (F) (Recommended)

Important Note!

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB001000GWCBC and MB002000GWCBD Drives

Version: HPG6 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB001000GWFVK and MB002000GWFVL Drives

Version: HPG6 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

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

Version: HPG1 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB002000GWFGH and MB001000GWFGF Drives

Version: HPG3 (G) (Optional)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

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

Version: HPG1 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives

Version: HPG3 (B) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB006000GWBXQ and MB008000GWBXL Drives

Version: HPG8 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB006000GWJRR and MB008000GWJRT Drives

Version: HPG4 (C) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

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

Version: HPG1 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB008000GWRTC Drive

Version: HPG1 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB008000GWWQU and MB006000GWWQT Drives

Version: HPG2 (C) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB010000GWAYN and MB008000GWAYL Drives

Version: HPG5 (F) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB012000GWDFF Drive

Version: HPG2 (F) (Critical)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM)

mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

In AHCI configuration only offline flashing is supported.

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

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

Fixes

Corrects a potential data integrity issue during unaligned write commands, found in supplier ongoing lab testing.

Includes additional fixes to improve error handling and reliability.

Enhancements

Added support for VMware 7.0 U1

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

Version: HPG7 (B) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives

Version: HPG2 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB014000GWUDA Drive

Version: HPG2 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives

Version: HPG4 (J) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives

Version: HPG4 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB2000GCWLT, MB3000GCWLU and MB4000GCWLV Drives

Version: HPG4 (J) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB2000GFEMH and MB4000GFEMK Drives

Version: HPG6 (H) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.

o The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

o Online firmware update fails when drives are connected behind AHCI controller.

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB4000GEFNA and MB6000GEFNB Drives

Version: HPG6 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB4000GEQNH and MB6000GEQNK Drives

Version: HPG6 (H) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

Online drive firmware update available for Smart Array Controllers configured in systems running

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

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

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.

The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB6000GEBTP Drive

Version: HPG4 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB6000GEQU and MB8000GEQUU Drives

Version: HPGB (H) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

(D) etc..

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was only found during supplier ongoing reliability testing.

Online firmware update fails when drives are connected behind AHCI controller.

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB6000GEXXV Drive

Version: HPG2 (J) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB6000GVYYU Drive

Version: HPG2 (H) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB6000GVYZB and MB4000GVYZA Drives

Version: HPG4 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MB8000GFECR Drive

Version: HPG6 (F) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFB Drives

Version: HPG3 (F) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

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

Version: HPG3 (B) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

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

Version: HPG1 (C) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MK003840GWHTe Drive

Version: HPG6 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MK0960GECQK Drive

Version: HPG3 (K) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

Firmware fixes intermittent data corruption issue associated with unaligned sequential write operations.

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MM1000GEFQV and MM2000GEFRA Drives

Version: HPG8 (G) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MM100GFJTE Drive

Version: HPG5 (E) (Optional)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives

Version: HPGE (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives

Version: HPG1 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWCFF, VK000480GWCFF, VK000960GWCFF, VK001920GWCFFH and VK003840GWCFFK Drives.

Version: HPG3 (F) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives

Version: HPGE (F) (Optional)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPQ Drives

Version: HPG5 (E) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

Fixes a rare link loss issue and adds enhancements for drive reliability.

After HPG5 firmware is downloaded to the drive, the new HPG5 firmware will be active on the drive.

The new drive bootloader code will be activated after the next drive power cycle.

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

https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00072768en_us

Enhancements

Added support for VMware 7.0 U1

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

Version: HPG4 (B) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTT, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives

Version: HPG6 (B) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for ESXi 7.0 U1.

Online HDD/SSD Flash Component for VMware ESXi - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives

Version: HPG2 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD 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

This maintenance FW release addresses a rare corner case COMRESET issue at warm boot, and to address an early EOL behavior under certain use cases.

Online HDD/SSD Flash Component for VMware ESXi - VK003840GWSXL Drive

Version: HPG2 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VK007680GWSXN Drive

Version: HPG2 (E) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL, and VK3840GFDKN Drives

Version: HPG1 (I) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives

Version: HPG1 (I) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - VR000150GWEPP and VR000480GWEPR Drives

Version: HPG1 (F) (Critical)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Fixes

Fixes a timing issue which can cause the drive to become non-functional.

Fixes VPD Log D0h reported drive Sanitize times.

Adds support for Security Log Page BBh.

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for VMware ESXi - XP0120GFJSL and XP0240GFJSN Drives

Version: HPS4 (I) (Recommended)

Important Note!

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

In AHCI configuration only offline flashing is supported.

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

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

Enhancements

Added support for VMware 7.0 U1

Online HDD/SSD Flash Component for Windows (x64) - EK000200GWEPD, EK000400GWEPE, EK000800GWEPE and EK001600GWEPH Drives

Version: HPG3 (E) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB001000GWCBC and MB002000GWCBD Drives

Version: HPG6 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB001000GFWK and MB002000GFWL Drives

Version: HPG6 (D) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB001000GWJAN, MB002000GFWFA and MB004000GFWFB Drives

Version: HPG1 (D) (Recommended)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB002000GWFGH and MB001000GWFGF Drives

Version: HPG3 (F) (Optional)

Important Note!

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

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

Enhancements

Added support for Windows Server 2019.

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

Version: HPG1 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB004000GWWQH, MB002000GWWQF and MB001000GWWQE Drives

Version: HPG3 (B) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB006000GWBXQ and MB008000GWBYL Drives

Version: HPG8 (D) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB006000GWJRR and MB008000GWJRT Drives

Version: HPG4 (C) (Recommended)

Important Note!

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

Enhancements

Added support for Windows server 2019.

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

Version: HPG1 (D) (Recommended)

Important Note!

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB008000GWRTC Drive

Version: HPG1 (D) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB008000GWWQU and MB006000GWWQT Drives

Version: HPG2 (C) (Recommended)

Important Note!

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

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

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

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB010000GWAYN and MB008000GWAYL Drives

Version: HPG5 (E) (Critical)

Important Note!

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

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

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

Fixes

This code corrects a potential data integrity issue related to unaligned write commands. This issue was only found in supplier ongoing lab testing.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB012000GWDFE Drive

Version: HPG2 (E) (Critical)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager. Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

Corrects a potential data integrity issue during unaligned write commands, found in supplier ongoing lab testing. Includes additional fixes to improve error handling and reliability.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB012000GWTFE and MB014000GWTFE Drives

Version: HPG7 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager. Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB014000GWRTN, MB012000GWRTL and MB010000GWRTK Drives

Version: HPG2 (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB014000GWUDA Drive

Version: HPG2 (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB1000GDUNU, MB2000GDUNV, MB3000GDUPA and MB4000GDUPB Drives

Version: HPG4 (H) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C)

(D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB1000GVYZE, MB2000GVYZF, MB3000GVYZH and MB4000GVYZK Drives

Version: HPG4 (H) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB2000GCWLT, MB3000GCWLU and MB4000GCWLW Drives

Version: HPG4 (H) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB2000GFEMH and MB4000GFEMK Drives

Version: HPG6 (G) (Critical)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.

The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB4000GEFNA and MB6000GEFNB Drives

Version: HPG6 (H) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB4000GEQNH and MB6000GEQNK Drives

Version: HPG6 (G) (Critical)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was found during supplier ongoing reliability testing.

o The firmware also corrects settings preservation after a code download, and includes emergency power off improvements.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB6000GEBTP Drive

Version: HPG4 (G) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB6000GEQUT and MB8000GEQUU Drives

Version: HPGB (G) (Critical)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

Corrects a potential data integrity issue caused by an in process write retry incorrectly starting at the wrong location. This issue was only found during supplier ongoing reliability testing.

Online firmware update fails when drives are connected behind AHCI controller.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB6000GEXXV Drive

Version: HPG2 (H) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB6000GVYYU Drive

Version: HPG2 (G) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB6000GVYZB and MB4000GVYZA Drives

Version: HPG4 (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MB8000GFECR Drive

Version: HPG6 (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MK000240GWCEU, MK000480GWCEV, MK000960GWCFA and MK001920GWCFCB Drives

Version: HPG3 (E) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MK000480GWSSC, MK000960GWSSD, MK001920GWSSE and MK003840GWSSF Drives

Version: HPG3 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running

supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MK000480GWXFF, MK000960GWXFH, MK001920GWXFK and MK003840GWXFL Drives

Version: HPG1 (C) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MK003840GWHITE Drive

Version: HPG6 (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

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..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MK0960GECQK Drive

Version: HPG3 (J) (Critical)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager. Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

Firmware fixes intermittent data corruption issue associated with unaligned sequential write operations.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MM1000GEFQV and MM2000GEFRA Drives

Version: HPG8 (F) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager. Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MM1000GFJTE Drive

Version: HPG5 (D) (Optional)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager. Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - MR000240GWFLU, MR000480GWFLV, VR000480GWFMD, MR000960GWFMA, VR000960GWFME, MR001920GWFMB and VR001920GWFMC Drives

Version: HPGE (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK000150GWCNN, VK000240GWCNP, VK000480GWCNQ, VK000960GWCNR and VK001600GWCNT Drives

Version: HPG1 (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWCFF, VK000480GWCFE, VK000960GWCFF, VK001920GWCFFH and VK003840GWCFFK Drives

Version: HPG3 (E) (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..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWEZB, VK000480GWEZC, VK000960GWEZD, VK001920GWEZE, MK000240GWEZF, MK000480GWEZH, MK000960GWEZK and MK001920GWHRU Drives

Version: HPGE (E) (Optional)

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..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWJPD, VK000480GWJPE, VK000960GWJPF, VK001920GWJPH, VK003840GWJPK, MK000240GWKVK, MK000480GWJPN, MK000960GWJPP and MK001920GWJPPQ Drives

Version: HPG5 (D) (Critical)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

Fixes a rare link loss issue and adds enhancements for drive reliability.

After HPG5 firmware is downloaded to the drive, the new HPG5 firmware will be active on the drive.

The new drive bootloader code will be activated after the next drive power cycle.

For more information, refer to HPE Customer Advisory at the following URL:

https://support.hpe.com/hpsc/doc/public/display?docId=emr_na-a00072768en_us

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWSRQ, VK000480GWSRR, VK000960GWSRT, VK001920GWSRU and VK003840GWSRV Drives

Version: HPG4 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or Host Bus Adapter (HBA) is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK000240GWTSV, VK000480GWTTA, VK000960GWTTB, VK001920GWTTTC, VK003840GWTTD, MK000480GWTTTH, MK000960GWTTK, MK001920GWTTL and MK003840GWTTN Drives

Version: HPG6 (B) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations.

Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK000480GWSXF, VK000960GWSXH, VK001920GWSXK, MK000480GWUGF, MK000960GWUGH and MK001920GWUGK Drives

Version: HPG2 (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK000480GWTHA, VK000960GWTHB, VK001920GWTHC and VK003840GWTHD 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

This maintenance FW release addresses a rare corner case COMRESET issue at warm boot, and to address an early EOL behavior under certain use cases.

Online HDD/SSD Flash Component for Windows (x64) - VK003840GWSXL Drive

Version: HPG2 (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline

update using the Service Pack for ProLiant and Smart Update Manager.

Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK007680GWSXN Drive

Version: HPG2 (D) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager. Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK0120GFDKE, VK0240GFDKF, VK0480GFDKH, VK0960GFDKK, VK1920GFDKL and VK3840GFDKN Drives

Version: HPG1 (G) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager. Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VK0240GEPQN, VK0480GEPQP and VK0960GEPQQ Drives

Version: HPG1 (G) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager. Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - VR000150GWEPP and VR000480GWEPR Drives

Version: HPG1 (E) (Critical)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode is NOT supported. Only offline firmware flashing of drives is supported for these configurations. Online drive firmware update available for Smart Array Controllers configured in systems running supported Linux, Microsoft Windows, and VMware environments. All other OSes would require an offline update using the Service Pack for ProLiant and Smart Update Manager. Customers who already installed latest firmware version do not need to update to sub version like (B) (C) (D) etc..

Fixes

Fixes a timing issue which can cause the drive to become non-functional.

Fixes VPD Log D0h reported drive Sanitize times.

Adds support for Security Log Page BBh.

Enhancements

Added support for Windows Server 2019.

Online HDD/SSD Flash Component for Windows (x64) - XP0120GFJSL and XP0240GFJSN Drives

Version: HPS4 (G) (Recommended)

Important Note!

Online firmware flashing of drives attached to a Smart Array controller running in Zero Memory (ZM) mode or a ProLiant 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..

Enhancements

Added support for Windows Server 2019.

Online ROM Flash Component for VMware ESXi - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers

Version: 5.08 (Recommended)

Important Note!

Power cycle / cold reboot is required if firmware is upgraded from version 1.31 or earlier.

Fixes

Smart Carrier Authentication Failure issue

Enhancements

Added support for Gen10 plus UBM type 1/2/3 backplanes

Online ROM Flash Component for Windows (x64) - HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers

Version: 5.08 (Recommended)

Important Note!

Power cycle / cold reboot is required if firmware is upgraded from version 1.31 or earlier.

Fixes

Smart Carrier Authentication Failure issue

Enhancements

Added support for Gen10 plus UBM type 1/2/3 backplanes

Online ROM Flash Component for Windows (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10

Version: 3.53 (Recommended)

Fixes

An issue where the controller might become unresponsive while receiving periodic I/Os.

Host I/O timeouts might occur due to continuing firmware attempts to discover devices during an expander configuration.

A controller lockup problem (with code 0x1E10) might occur when a bad drive with unsupported block size.

A Controller hangs when multiple hot-plug and hot remove events (drives or JBODs) were being processed.

A Controller hangs on Flash Backed Write Cache enabled logical drives with sequential read towards the end of the logical drive.

A Controller hangs when hot-plug physical drive with outstanding I/Os.

A controller hangs if a host I/O and background consistency check simultaneously encounter a RAID-1 ADM or RAID-10 ADM stripe in which all drives have URE's on the same LBA.

A Controller hangs when a drive is failed from a RAID6/60 logical drive when the host issues a Clear Controller Configuration command or any other configuration change command.

The SSD data drive might be set offline (with reason code 0x37) when hot-remove and re-insert during a spare rebuild in progress.

A drive might not be exposed to the OS if the system is rebooted just after the sanitize erase finishes.

UBM backplanes are not detected properly when connected to specific ports (port 7 or above) in the 12Gb SAS Expander Card.

A controller might hang when idle followed by a short burst of I/Os.

The controller might return the previous drive firmware version, after a drive firmware update on SATA drives.

The controller might fail drives (with reason code 0x49, I/O freeze timeout) during expander firmware upgrade on a multi-expander enclosure configuration.

Hot-added drive LED control fails on specific fan-out expander type external enclosure models.

Smart Array Essential series controller might not be responsive when processing sequential I/Os and the firmware coalescing logic can't get the memory.

Filesystem or application might read old data when SmartCache configurations encounter intermittent write I/O errors to a primary logical drive.

Enhancements

Added UBM type3 backplane support

Added support for long device model/product ID for SATA drives.

Supplemental Update / Online ROM Flash Component for Linux (x64) - HPE Smart Array P408i-p, P408e-p, P408i-a, P408i-c, E208i-p, E208e-p, E208i-c, E208i-a, P408i-sb, P408e-m, P204i-c, P204i-b, P816i-a and P416ie-m SR Gen10

Version: 3.53 (Recommended)

Fixes

An issue where the controller might become unresponsive while receiving periodic I/Os.

Host I/O timeouts might occur due to continuing firmware attempts to discover devices during an expander configuration.

A controller lockup problem (with code 0x1E10) might occur when a bad drive with unsupported block size.

A Controller hangs when multiple hot-plug and hot remove events (drives or JBODs) were being processed.

A Controller hangs on Flash Backed Write Cache enabled logical drives with sequential read towards the end of the logical drive.

A Controller hangs when hot-plug physical drive with outstanding I/Os.

A controller hangs if a host I/O and background consistency check simultaneously encounter a RAID-1 ADM or RAID-10 ADM stripe in which all drives have URE's on the same LBA.

A Controller hangs when a drive is failed from a RAID6/60 logical drive when the host issues a Clear Controller Configuration command or any other configuration change command.

The SSD data drive might be set offline (with reason code 0x37) when hot-remove and re-insert during a spare rebuild in progress.

A drive might not be exposed to the OS if the system is rebooted just after the sanitize erase finishes.

UBM backplanes are not detected properly when connected to specific ports (port 7 or above) in the 12Gb SAS Expander Card.

A controller might hang when idle followed by a short burst of I/Os.

The controller might return the previous drive firmware version, after a drive firmware update on SATA drives.

The controller might fail drives (with reason code 0x49, I/O freeze timeout) during expander firmware upgrade on a multi-expander enclosure configuration.

Hot-added drive LED control fails on specific fan-out expander type external enclosure models.

Smart Array Essential series controller might not be responsive when processing sequential I/Os and the firmware coalescing logic can't get the memory.

Filesystem or application might read old data when SmartCache configurations encounter intermittent write I/O errors to a primary logical drive.

Enhancements

Added UBM type3 backplane support

Added support for long device model/product ID for SATA drives.

Supplemental Update / Online ROM Flash Component for Linux (x64) – HPE 12Gb/s SAS Expander Firmware for HPE Smart Array Controllers and HPE HBA Controllers

Version: 5.08 (Recommended)

Important Note!

Power cycle / cold reboot is required if firmware is upgraded from version 1.31 or earlier.

Fixes

Smart Carrier Authentication Failure issue

Enhancements

Added support for Gen10 plus UBM type 1/2/3 backplanes

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for Linux (x64)

Version: 2021.02.01 (Recommended)

Important Note!

Release Notes:

HPE Emulex Adapters Release Notes

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

1. Go to <http://www.hpe.com/support/manuals>
2. Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Fixed the following:-

Fixed a behavior where the SN1600E would wrongly display an unwanted message when loading Unified Extensible Firmware Interface (UEFI) driver defaults

Added the following:-

Added support for Distributed Management Task Force (DMTF) – Platform Level Data Model (PLDM) Firmware Update to the SN1200E, SN1600E, and SN1610E

The adapter will now reset to defaults when the user activates Hewlett Packard Enterprise (HPE) Secure Erase from Hewlett Packard Enterprise (HPE) intelligent provisioning

Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Adapter

HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

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 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>.

The Enablement Kit requires that the target environment have the libHBAAPI package installed from your OS installation media.

Install the FC Driver Kit, reboot, and then install the Enablement Kit.

Additional requirements:

Environment must be running the syslog daemon for the flash engine to run

Environment must have 32-bit netlink library (libnl.so) installed for component to be able to discover Emulex Host Bus Adapters(HBAs)

Fixes

Fixed the following:

Fixed a behavior where the SN1600E would wrongly display an unwanted message when loading Unified Extensible Firmware Interface (UEFI) driver defaults

Enhancements

Added the following:-

Added support for Distributed Management Task Force (DMTF) – Platform Level Data Model (PLDM) Firmware Update to the SN1200E, SN1600E, and SN1610E

The adapter will now reset to defaults when the user activates Hewlett Packard Enterprise (HPE) Secure Erase from Hewlett Packard Enterprise (HPE) intelligent provisioning

Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.5

Version: 2021.02.01 (Recommended)

Important Note!

Release Notes:

HPE Emulex Adapter Release Notes

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

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1. Go to <http://www.hpe.com/support/manuals>
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This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new

11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Fixed the following:-

Fixed a behavior where the SN1600E would wrongly display an unwanted message when loading Unified Extensible Firmware Interface (UEFI) driver defaults

Added the following:-

Added support for Distributed Management Task Force (DMTF) – Platform Level Data Model (PLDM) Firmware Update to the SN1200E, SN1600E, and SN1610E

The adapter will now reset to defaults when the user activates Hewlett Packard Enterprise (HPE) Secure Erase from Hewlett Packard Enterprise (HPE) intelligent provisioning

Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Adapter

HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

Fixes

Fixed the following:

Fixed a behavior where the SN1600E would wrongly display an unwanted message when loading Unified Extensible Firmware Interface (UEFI) driver defaults

Enhancements

Added the following:-

Added support for Distributed Management Task Force (DMTF) – Platform Level Data Model (PLDM) Firmware Update to the SN1200E, SN1600E, and SN1610E

The adapter will now reset to defaults when the user activates Hewlett Packard Enterprise (HPE) Secure Erase from Hewlett Packard Enterprise (HPE) intelligent provisioning

Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 6.7

Version: 2021.02.01 (Recommended)

Important Note!

Release Notes:

HPE Emulex Adapter Release Notes

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

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Adapter

HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

Fixes

Fixed the following:

Fixed a behavior where the SN1600E would wrongly display an unwanted message when loading Unified

Extensible Firmware Interface (UEFI) driver defaults

Enhancements

Added the following:-

Added support for Distributed Management Task Force (DMTF) – Platform Level Data Model (PLDM) Firmware Update to the SN1200E, SN1600E, and SN1610E

The adapter will now reset to defaults when the user activates Hewlett Packard Enterprise (HPE) Secure Erase from Hewlett Packard Enterprise (HPE) intelligent provisioning

Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

HPE Firmware Flash for Emulex Fibre Channel Host Bus Adapters for VMware vSphere 7.0

Version: 2021.02.01 (Recommended)

Important Note!

Release Notes:

HPE Emulex Adapter Release Notes

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

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Added the following:-

Added support for Distributed Management Task Force (DMTF) – Platform Level Data Model (PLDM)

Firmware Update to the SN1200E, SN1600E, and SN1610E

The adapter will now reset to defaults when the user activates Hewlett Packard Enterprise (HPE) Secure Erase from Hewlett Packard Enterprise (HPE) intelligent provisioning

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This Firmware package contains following firmware versions:

Adapter

HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

Fixes

Fixed the following:

Fixed a behavior where the SN1600E would wrongly display an unwanted message when loading Unified Extensible Firmware Interface (UEFI) driver defaults

Enhancements

Added the following:-

Added support for Distributed Management Task Force (DMTF) – Platform Level Data Model (PLDM)

Firmware Update to the SN1200E, SN1600E, and SN1610E

The adapter will now reset to defaults when the user activates Hewlett Packard Enterprise (HPE) Secure Erase from Hewlett Packard Enterprise (HPE) intelligent provisioning

Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters - Linux (x86_64)

Version: 2021.02.01 (Recommended)

Important Note!

Refer release notes available at:

HPE QLogic Adapter Release Notes

Fixed the following:-

Enhancements have been made to the firmware to prevent and better recover from any stoppage as described in Customer Advisory available at

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

Fixed a behavior where the number of active Input/Output (IO) exchanges could be reduced under certain fabric conditions, resulting in reduced performance.

Added the following:-

Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Adapter

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

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 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>.

o 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

Fixed the following:-

Enhancements have been made to the firmware to prevent and better recover from any stoppage as described in Customer Advisory available at

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

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Enhancements

Added the following:-

Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Adapter

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Supported Devices and Features

This firmware supports the following HPE adapters:

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.5

Version: 2021.02.01 (Recommended)

Important Note!

Refer release notes available at:

HPE QLogic Adapter Release Notes

Fixed the following:-

· **Enhancements have been made to the firmware to prevent and better recover from any stoppage as described in Customer Advisory available at**

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

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· Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Adapter

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

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/>

Fixes

Fixed the following:-

· **Enhancements have been made to the firmware to prevent and better recover from any stoppage as described in Customer Advisory available at**

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

- Fixed a behavior where the number of active Input/Output (IO) exchanges could be reduced under certain fabric conditions, resulting in reduced performance.

Enhancements

Added the following:-

- Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Adapter

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Supported Devices and Features

This firmware supports the following HPE adapters:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 6.7

Version: 2021.02.01 (Recommended)

Important Note!

Refer release notes available at:

HPE QLogic Adapter Release Notes

Fixed the following:-

· **Enhancements have been made to the firmware to prevent and better recover from any stoppage as described in Customer Advisory available at**

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

- Fixed a behavior where the number of active Input/Output (IO) exchanges could be reduced under certain fabric conditions, resulting in reduced performance.

Added the following:-

- Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Adapter

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

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/>

Fixes

Fixed the following:-

· **Enhancements have been made to the firmware to prevent and better recover from any stoppage as described in Customer Advisory available at**

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

- Fixed a behavior where the number of active Input/Output (IO) exchanges could be reduced under certain fabric conditions, resulting in reduced performance.

Enhancements

Added the following:-

- Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Adapter

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Supported Devices and Features

This firmware supports the following HPE adapters:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE Firmware Flash for QLogic Fibre Channel Host Bus Adapters for VMware vSphere 7.0

Version: 2021.02.01 (Recommended)

Important Note!

Refer release notes available at:

HPE QLogic Adapter Release Notes

Fixed the following:-

· **Enhancements have been made to the firmware to prevent and better recover from any stoppage as**

described in Customer Advisory available at

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

- Fixed a behavior where the number of active Input/Output (IO) exchanges could be reduced under certain fabric conditions, resulting in reduced performance.

Added the following:-

- Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Adapter

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

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/>

Fixes

Fixed the following:-

· **Enhancements have been made to the firmware to prevent and better recover from any stoppage as described in Customer Advisory available at**

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us

- Fixed a behavior where the number of active Input/Output (IO) exchanges could be reduced under certain fabric conditions, resulting in reduced performance.

Enhancements

Added the following:-

- Added support for Fabric Performance Impact Notifications (FPIN)

This Firmware package contains following firmware versions:

Adapter

HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter

HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Supported Devices and Features

This firmware supports the following HPE adapters:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter

- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

Firmware Package - Gen10 NVMe Backplane PIC Firmware

Version: 1.20 (Optional)

Prerequisites

iLO 5 version 1.10 or later is required.

Enhancements

Initial release.

Firmware Package - Gen10Plus UBM2 Backplane PIC Firmware

Version: 1.16 (Recommended)

Prerequisites

iLO 5 version 2.10 or later is required.

Fixes

Fixed to correct the LED lighting condition

Online Flash for Linux - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors

Version: 04.01.04.423 (Recommended)

Enhancements

Version 04.01.04.423 firmware

Online Flash for Windows x64 - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors

Version: 04.01.04.423 (Recommended)

Enhancements

Version 04.01.04.423 firmware

Online ROM Flash Component for Windows x64 - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems

Version: 05.01.04.208 (Recommended)

Enhancements

Version 05.01.04.208 firmware

Online ROM Flash for Linux - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems

Version: 05.01.04.208 (Recommended)

Enhancements

Version 05.01.04.208 firmware

ROM Flash Firmware Package - Innovation Engine Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors

Version: 0.2.2.0 (Optional)

Prerequisites

System ROM V1.26 or later

iLO 5 v1.20 or later

Enhancements

Version 0.2.2.0 firmware

ROM Flash Firmware Package - Server Platform Services (SPS) Firmware for servers using Intel Xeon Scalable 3100/3200/4100/4200/5100/5200/6100/6200/8100/8200 series Processors

Version: 04.01.04.423 (Recommended)

Enhancements

Version 04.01.04.423 firmware

ROM Flash Firmware Package - Server Platform Services Manageability Engine Firmware for the Intel C242 and C246 PCH based systems

Version: 05.01.04.208 (Recommended)

Enhancements

Version 05.01.04.208 firmware

HPE Fiber Channel and Storage Enablement Bundle Smart Component for ESXi 7.0

Version: 2021.04.01 (Recommended)

Enhancements

Supports VMware ESXi 7.0 U1 and ESXi 7.0 U2

HPE iLO Driver Bundle Smart Component for ESXi 7.0

Version: 2021.04.01 (Recommended)

Fixes

Fixed PSOD when the iLO driver device initialization fails.

Enhancements

Supports VMware ESXi 7.0 U1 and ESXi 7.0 U2

HPE Management Bundle Smart Component for ESXi 6.5

Version: 2021.04.12 (Recommended)

Fixes

Agentless Management Service

- Reduce Software Inventory cache refresh time to 15 seconds to help resolve OneView online SW update issues without reboot.
- Fixed resource leak when AHS logging fails
- Fix incorrect reporting of SATA disks attached to Smart Array and SAS controllers in the cpqIdeAtaDisk MIB.

Enhancements

Agentless Management Service

- Added support for new NIC devices (Gen10 AMS only)
 - Added support for new SATA, SAS and NVMe drives (Gen10 AMS only)
-

HPE Management Bundle Smart Component for ESXi 6.7

Version: 2021.04.12 (Recommended)

Fixes

Agentless Management Service

- Reduce Software Inventory cache refresh time to 15 seconds to help resolve OneView online SW update issues without reboot.
- Fixed resource leak when AHS logging fails
- Fix incorrect reporting of SATA disks attached to Smart Array and SAS controllers in the cpqIdeAtaDisk MIB.

Enhancements

Agentless Management Service

- Added support for new NIC devices (Gen10 AMS only)
 - Added support for new SATA, SAS and NVMe drives (Gen10 AMS only)
-

HPE Smart Array SR Event Notification Service for Windows Server 64-bit Editions

Version: 1.2.1.65 (Recommended)

Fixes

Fixed for the version information

HPE QLogic Fibre Channel driver component for VMware vSphere 6.5

Version: 2021.02.01 (Recommended)

Important Note!

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Fixed the following:

- Fixed a behavior where enabling VM-ID and SmartSAN on a boot from Storage Area Network (SAN) setup caused driver load incomplete
- Fixed a behavior where automatic attempts to recover from the behavior described in Customer Advisory available at

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us would result in a Purple Screen of Death (PSoD)

Added the following:

- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) Capability
- Added support for Fabric Performance Impact Notifications (FPIN)

Driver version 2.1.101.0

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

Fixes

Fixed the following:-

- Fixed a behavior where enabling VM-ID and SmartSAN on a boot from Storage Area Network (SAN) setup caused driver load incomplete
- Fixed a behavior where automatic attempts to recover from the behavior described in Customer Advisory available at

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us would result in a Purple Screen of Death (PSoD)

Enhancements

Added the following:-

- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) Capability
- Added support for Fabric Performance Impact Notifications (FPIN)

Driver version 2.1.101.0

Supported Devices and Features

This driver supports the following HPE adapters:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE QLogic Fibre Channel driver component for VMware vSphere 6.7

Version: 2021.02.01 (Recommended)

Important Note!

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Fixed the following:

- Fixed a behavior where enabling VM-ID and SmartSAN on a boot from Storage Area Network (SAN) setup caused driver load incomplete

- Fixed a behavior where automatic attempts to recover from the behavior described in Customer Advisory available at

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us would result in a Purple Screen of Death (PSoD)

Added the following:

- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) Capability
- Added support for Fabric Performance Impact Notifications (FPIN)

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

Fixes

Fixed the following:

- Fixed a behavior where enabling VM-ID and SmartSAN on a boot from Storage Area Network (SAN) setup caused driver load incomplete

- Fixed a behavior where automatic attempts to recover from the behavior described in Customer Advisory available at

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us would result in a Purple Screen of Death (PSoD)

Enhancements

Added the following:-

- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) Capability
- Added support for Fabric Performance Impact Notifications (FPIN)

Driver version 3.1.46.0

Supported Devices and Features

This driver supports the following HPE adapters:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE QLogic Fibre Channel driver component for VMware vSphere 7.0

Version: 2021.02.01 (Recommended)

Important Note!

This component is intended to be used by HPE applications. It is a zip that contains the same driver deliverable available from the vmware.com and the HPE vibsdepot.hpe.com webpages, plus an HPE specific CPXXXX.xml file.

Fixed the following:

- Fixed a behavior where enabling VM-ID and SmartSAN on a boot from Storage Area Network (SAN) setup caused driver load incomplete

- Fixed a behavior where automatic attempts to recover from the behavior described in Customer Advisory available at

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us would result in a Purple Screen of Death (PSoD)

Added the following:-

- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) Capability
- Added support for Fabric Performance Impact Notifications (FPIN)

Driver version 4.1.22.0

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

Fixes

Fixed the following:

- Fixed a behavior where enabling VM-ID and SmartSAN on a boot from Storage Area Network (SAN) setup caused driver load incomplete

- Fixed a behavior where automatic attempts to recover from the behavior described in Customer Advisory available at

https://support.hpe.com/hpesc/public/docDisplay?docLocale=en_US&docId=a00094722en_us would result in a Purple Screen of Death (PSoD)

Enhancements

Added the following:-

- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) Capability
- Added support for Fabric Performance Impact Notifications (FPIN)

Driver version 4.1.22.0

Supported Devices and Features

This driver supports the following HPE adapters:

- HPE SN1100Q 16GB Dual Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1100Q 16GB Single Port PCIe Fibre Channel Host Bus Adapter
- HPE SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter

- HPE SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter

HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.5

Version: 2021.02.01 (Recommended)

Important Note!

Release Notes:

HPE Emulex 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.

Beginning with software release 11.2, Fibre Channel (LightPulse) host bus adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

- Go to <http://www.hpe.com/support/manuals>
- Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Added the following:-

- Changed the default Logical Unit Number (LUN) queue depth from 30 to 64
- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) capability

Updated to Driver version 12.8.317.0

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

Beginning with software release 11.2, Fibre Channel (LightPulse) host bus adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

- Go to <http://www.hpe.com/support/manuals>
- Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Enhancements

Added the following:-

- Changed the default Logical Unit Number (LUN) queue depth from 30 to 64
- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) capability

Updated to Driver version 12.8.317.0

Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

- HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1200E 16Gb 1Single Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

HPE Storage Emulex Fibre Channel driver component for VMware vSphere 6.7

Version: 2021.02.01 (Recommended)

Important Note!

Release Notes:

HPE Emulex 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.

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

- Go to <http://www.hpe.com/support/manuals>
- Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Added the following:-

- Changed the default Logical Unit Number (LUN) queue depth from 30 to 64
- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) capability

Updated to Driver version 12.8.317.0

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

- Go to <http://www.hpe.com/support/manuals>
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This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Enhancements

Added the following:-

- Changed the default Logical Unit Number (LUN) queue depth from 30 to 64
- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) capability

Updated to Driver version 12.8.317.0

Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

- HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1200E 16Gb 1Single Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

HPE Storage Emulex Fibre Channel driver component for VMware vSphere 7.0

Version: 2021.02.01 (Recommended)

Important Note!

Release Notes:

HPE Emulex 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.

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

- Go to <http://www.hpe.com/support/manuals>
- Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Added the following:-

- Changed the default Logical Unit Number (LUN) queue depth from 30 to 64
- Added support for ESXi 7.0 U1
- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) capability

Updated to Driver version 12.8.329.0

Prerequisites

Please consult SPOCK for a list of supported configurations available at the following link:

<http://www.hpe.com/storage/spock/>

Beginning with software release 11.2, Fibre Channel (LightPulse) adapters and Converged Network adapters (OneConnect) have independent software kits.

It is highly recommended that you review the Broadcom Software Kit Migration User Guide for more detailed information regarding this change.

To obtain the guide:

- Go to <http://www.hpe.com/support/manuals>
- Using the HPE model number as your guide, enter the adapter model number in the Search products box, and then click >>.

This document provides special instructions and considerations for using the driver kits for FC and CNA adapters.

Special cases include those in which pre-11.2 (original) drivers and applications are replaced by the new 11.2 drivers and applications, and cases in which inbox drivers are replaced by the new 11.2 out-of-box (OOB) drivers.

Enhancements

Added the following:-

- Changed the default Logical Unit Number (LUN) queue depth from 30 to 64
- Added support for ESXi 7.0 U1
- Added Non-volatile memory express (NVMe) over Fibre Channel (FC) capability

Updated to Driver version 12.8.329.0

Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

- HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1200E 16Gb 1Single Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

HPE Emulex NVMe Fibre Channel Enablement Kit for HPE Emulex Host Bus Adapters for Linux Server

Version: 12.8.264.0 (Optional)

Important Note!

Release Notes:

HPE Emulex Adapters Release Notes

This package is applicable only on the below Operating Systems

Red Hat Enterprise Linux Server 7 update 8

Red Hat Enterprise Linux Server 7 update 9

Prerequisites

To successfully deploy nvme-connect rpm on target systems based on a Linux operating system, "nvme-cli" package has to be available on the target system. This package is available as part of the OS-distro.

Enhancements

Updated to version 12.8.264.0

Supported Devices and Features

This component is supported on following Emulex Fibre Channel Host Bus adapters:

- HPE SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1200E 16Gb 1Single Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter
- HPE SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter

Agentless Management Service (iLO 5) for Red Hat Enterprise Linux 7 Server

Version: 2.4.1 (Optional)

Prerequisites

- amsd only supported on HPE Gen10/Gen10 Plus Servers.
- amsd provides information to the iLO 5 service providing SNMP support.
- Requirements:
 - Minimum iLO 5 Firmware Version = 1.1
 - Minimum supported OS Versions = Red Hat Enterprise Linux 7.3 Errata 3.10.0.514.6.1

Fixes

Fixed the following items:

- Addressed a small amount of memory leak as outlined in the Customer Advisory, a00053824en_us
- A customer may experience where smad may periodically report: No response from iLO for Hello. After losing connection with iLO, the subagent may experience high CPU utilization for trying the reconnection.

This issue is documented in Customer Advisory

https://support.hpe.com/hpesc/public/docDisplay?docId=emr_na-a00111063en_us.

- The cpqIde service not able to start while the AMSD configuration is agent mode.
- Addressed buffer overflow issues in select corner cases.

Enhancements

This release contains the following enhancements:

- Enhance the robust communication with iLO. The enhancement has a proper process exist and OS signal handling.
- Enhance the SMA logging system for better recording of the communication events.
- The AMSD reports the Open NIC controllers SN to align with iLO for avoiding the un-sync information.

Agentless Management Service for Windows x64

Version: 2.41.0.0 (Optional)

Important Note!

iLO Firmware Version:

- This version of AMS has been tested with iLO 5 firmware version 2.40. It is recommended to install AMS 2.40.0.0 on systems with iLO 5 firmware 2.40 or newer.

About installation and enablement of SMA service:

- During AMS installation in interactive mode, there is pop up message to selectively install SMA.
- If Yes is selected, SMA service will be installed and set to running state.
- If No is selected, SMA service will be installed but the service is not enabled.
- During AMS installation in silent mode, SMA is installed but the service is not enabled.
- To enable SMA service at a later time, go to the following

folder: %ProgramFiles%\OEM\AMS\Service\ (Typically c:\Program Files\OEM\AMS\Service) and execute "EnableSma.bat /f"

- IMPORTANT: The SNMP service community name and permission must also be setup. This is not done by "EnableSma.bat".

- To disable SMA after it has been enabled, go to the following

folder: %ProgramFiles%\OEM\AMS\Service\ (Typically c:\Program Files\OEM\AMS\Service) and execute "DisableSma.bat /f"

- After installing Windows operating system, make sure all the latest Microsoft Updates are downloaded and installed (wuapp.exe can be launched to start the update process). If this is not done, a critical error may be reported in Windows Event Log, "The Agentless Management Service terminated unexpectedly."

AMS Control Panel Applet:

- The AMS control panel applet UI is best displayed on the system when screen resolution is 1280 x 1024 pixels or higher and text size 100%.
- Test trap generated from AMS Control Panel Applet requires iLO5 firmware version 2.10 and newer.

- When in iLO5 high security mode (e.g. FIPS mode), MD5 authentication protocol will not be shown.

Prerequisites

The Channel Interface Driver for Windows X64 must be installed prior to this component.

Microsoft SNMP Service must be enabled, if SMA (System Management Assistant) is enabled.

Fixes

- Fixed IML was missing NIC link down record if the user unplugs many cables at the same time.
- Fixed iLO web GUI missing IPv6 address when Windows Hype-V switch is created.
- Fixed a crash issue when AMS is querying iSCSI information.
- Fixed incorrect drive status if IDE SATA drive is busy on access.
- Fixed incorrect drive status if Windows see the predictive failure drive.

Enhancements

- Added Logical Drive Trap 5023.
- Added support for new I/O cards.
- Changed IDE/SATA interval time from 120 seconds to 60 seconds.
- Redirect more iLO security logs to the Windows event system.

Smart Storage Administrator (SSA) CLI for Linux 64-bit

Version: 5.10.44.0 (Recommended)

Enhancements

Added support to the HPE SR932i-p and SR416-a Gen10+ Controllers.

Smart Storage Administrator (SSA) CLI for Windows 64-bit

Version: 5.10.44.0 (Recommended)

Enhancements

Added support to the HPE SR932i-p and SR416-a Gen10+ Controllers.

Smart Storage Administrator (SSA) for Linux 64-bit

Version: 5.10.44.0 (Recommended)

Prerequisites

The Smart Storage Administrator for Linux requires the System Management Homepage software to be installed on the server. If the System Management Homepage software is not already installed on your server, please download it from HPE.com and install it before installing the Smart Storage Administrator for Linux.

IMPORTANT UPDATE: SSA (GUI) for Linux can now be run without requiring the System Management Homepage. SSA now supports a Local Application Mode for Linux. The System Management Homepage is still supported, but no longer required to run the SSA GUI.

To invoke, enter the following at the command prompt:

ssa -local

The command will start SSA in a new Firefox browser window. When the browser window is closed, SSA will automatically stop. This is only valid for the loopback interface, and not visible to external network connections.

Enhancements

Added support to the HPE SR932i-p and SR416-a Gen10+ Controllers.

Smart Storage Administrator (SSA) for Windows 64-bit

Version: 5.10.44.0 (Recommended)

Enhancements

Added support to the HPE SR932i-p and SR416-a Gen10+ Controllers.

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Linux 64-bit

Version: 5.10.44.0 (Recommended)

Enhancements

Added support to the HPE SR932i-p and SR416-a Gen10+ Controllers.

Smart Storage Administrator Diagnostic Utility (SSADU) CLI for Windows 64-bit

Version: 5.10.44.0 (Recommended)

Important Note!

This stand alone version of the Smart Storage Administrator's Diagnostic feature is available only in CLI form. For the GUI version of Diagnostic reports, please use Smart Storage Administrator (SSA).

Enhancements

Added support to the HPE SR932i-p and SR416-a Gen10 Plus Controllers.

Utility - Tools

HPE Utilities Bundle Smart Component for ESXi 6.5

Version: 2021.04.02 (Recommended)

Important Note!

Refer to the HPE VMware Utilities Guide for VMware vSphere 6.5 U3 which is located at HPE Information Library.

Enhancements

- Includes an updated the Smart Storage Administrator CLI.
-

HPE Utilities Bundle Smart Component for ESXi 6.7

Version: 2021.04.02 (Recommended)

Important Note!

Refer to the HPE VMware Utilities Guide for VMware vSphere 6.7 U3 which is located at HPE Information Library.

Enhancements

Includes an updated the Smart Storage Administrator CLI.

HPE Utilities Bundle Smart Component for ESXi 7.0

Version: 2021.04.01 (Recommended)

Important Note!

Refer to the HPE VMware Utilities Guide for VMware vSphere 6.7 U3 which is located at HPE Information Library.

Enhancements

Includes an updated the Smart Storage Administrator CLI (SSACLI).