



**Hewlett Packard**  
Enterprise

# **Data Agile BURA Compatibility Matrix**

## **BackUp Recovery & Archive**

Compatibility for:

- HPE StoreOnce Systems
- HPE StoreEver Tape Products
- HPE StoreAll Storage Products

**June 2016** Version 2

Key Updates:

- New support for HPE StoreEver Archive Manager
- Added LTO-7 drive support for Tolis Groups BRU Server & BRU Producer's edition
- Updated Storage Networking Support

Legacy Support can be found in older Matrices.  
Links are provided on the [Legacy Support page](#).

For the most up to date Matrix [click here](#).

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# Hewlett Packard Enterprise - How To Use This Document

The HPE Data Agile BURA Compatibility Matrix provides information for designing data protection solutions, including backup/restore/archiving using StoreOnce (Disk), StoreEver (Tape) and StoreAll (NAS) Storage products. The StoreOnce and StoreEver products have interoperability (IOP) details shown in their respective the operating systems pages. The StoreOnce IOP pages show StoreOnce Virtual Tape Library support with Fibre Channel (FC), whereas the StoreEver IOP pages show both FC and SAS connectivity to tape products. The StoreAll sections show the software and hardware support on that platform.

The matrix is a rolling support document with new products/firmware/software support being added every month and when appropriate older products removed or moved to Legacy support. Legacy support means that product is no longer being actively tested, but still supported with the configuration shown in the last matrix in which it was listed. When a device or operating systems is removed from the matrix an update to the 'Legacy Device Support' page will be added to show which matrix was the last to show support.

NOTE: Where StoreOnce Disk Backup or StoreEver Tape is used with a backup application, compatibility is tested with that backup application and communicated in this document. The software and hardware support information provided by the backup software vendor should be checked to verify application, file system, operating system and storage hardware compatibility.

Updates/changes to individual fields within the Matrix will be highlighted in **RED**. Products highlighted in **YELLOW** will be removed from the Data Agile Compatibility Matrix in the next release. Previous versions of the Matrix are available on the 'Legacy Support' page within this Matrix. The most current Matrix can always be found at [hpe.com/storage/BURAMatrix](http://hpe.com/storage/BURAMatrix).

1. Determine which HPE Products (StoreOnce Systems, StoreEver Tape or StoreAll NAS Storage) you are interested in finding support about, then review that section for compatibility with Independent Software Vendors (ISV) with HPE firmware, advanced features and connectivity compatibility.
2. Consult the Independent Software Vendors (ISV) product compatibility guide(s) for support details such as product versions, OS versions, hotfixes, patches, special notes, driver details and hardware devices supported by the vendor. See the ISV Compatibility Links page in this matrix for direct links to the vendor websites.
3. Check the 'Legacy Support' page (near the end of the matrix) to see if the product/OS has been moved to legacy support. If so, note the month at which support was moved to legacy support and find the older matrix link. If the matrix is not found online (because it is older than two years old), email: [BURA.Solutions@hpe.com](mailto:BURA.Solutions@hpe.com) and request a copy of the older matrix.
4. Due to differences in support, it is very important to verify which servers and OS's are supported by your HBA or controller by referring their individual QuickSpec. There are direct hyperlinks to HPE Server QuickSpecs in the StoreEver section in this Matrix. HPE QuickSpecs online: [hpe.com/info/qs](http://hpe.com/info/qs)
5. HPE storage products should always run latest firmware, OS and software versions. Systems running older versions face an increased risk from exposure to known (and unknown) issues. If a system is running older versions and encounters an issue, HPE Support will request upgrading to current versions. Each section of this matrix provides the current firmware, OS or system software code that is supported by each platform.
6. Additional technical information, guidelines and rules can be found in the 'HPE Backup, Recovery and Archive (BURA) Solutions design guide' and various Backup Application Implementation Guides and whitepapers located on the web at: [hpe.com/storage/BURACompatibility](http://hpe.com/storage/BURACompatibility)
7. For StoreEver and StoreOnce VTL backup this Matrix only shows compatibility for FC SAN media servers. A FC SAN media server is defined as a server with direct access to backup devices. Other operating systems may be supported within Data Agile Matrix by the respective ISVs as LAN clients, where a LAN client does not have direct access to the backup device but is backed up over a LAN connection to a server with direct access to backup devices.
8. Receive support alerts (such as Customer Advisories), driver updates, software, firmware, and customer replaceable components, in your e-mail through HPE Subscriber's Choice. Sign up for Subscriber's Choice Driver, Patch, Security, and Support alerts at: [hpe.com/info/myadvisory](http://hpe.com/info/myadvisory)

# Hewlett Packard Enterprise - ISV Compatibility Links

## Software Partners

Product	LTFS <sup>1</sup> Support	Link to Whitepapers	Software Compatibility List	Hardware Compatibility List
<a href="#">HPE Data Protector</a>		<a href="#">White-papers</a>	<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">HPE VM Explorer</a>			NA	NA
<a href="#">HP StoreOpen Automation &amp; Standalone</a>	✓	<a href="#">White-papers</a>	NA	NA
<a href="#">Acronis Backup Advanced</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Archiware P5</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Arcserve Backup</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Arcserve UDP</a>			<a href="#">SCL</a>	NA
<a href="#">Agfa HealthCare</a>		<a href="#">White-papers</a>	NA	NA
<a href="#">ASG Time Navigator</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Asigra Cloud Backup</a>			NA	NA
<a href="#">Barracuda Yosemite Server Backup</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">BridgeHead HDM Suite</a>			NA	NA
<a href="#">Catalogic DPX (SyncSort DPX)</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Citrix ShareFile</a>		<a href="#">White-papers</a>	NA	NA
<a href="#">Commvault Simpana</a>		<a href="#">White-papers</a>	<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Dell NetVault</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">EMC NetWorker</a>		<a href="#">White-papers</a>	<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">ETI-NET Backbox</a>			NA	NA
<a href="#">Front Porch Digital DIVArchive (Oracle)</a>			NA	NA
<a href="#">GE Centricity</a>		<a href="#">White-papers</a>	NA	NA
<a href="#">Genetec Security Center</a>		<a href="#">White-papers</a>	NA	NA
<a href="#">IBM Spectrum Protect (TSM)</a>		<a href="#">White-papers</a>	<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Interica IDS_PARS</a>			NA	NA
<a href="#">iTernity iCAS</a>		<a href="#">White-papers</a>	NA	NA
<a href="#">McAfee VirusScan</a>		<a href="#">White-papers</a>	NA	NA
<a href="#">MDA Archive Management System</a>			NA	NA
<a href="#">Microsoft System Center DPM</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Milestone XProtect</a>		<a href="#">White-papers</a>	NA	NA
<a href="#">Oracle Secure Backup</a>			<a href="#">SCL</a>	<a href="#">HCL</a>

## Software Partners (Continued)

Product	LTFS <sup>1</sup> Support	Link to Whitepapers	Software Compatibility List	Hardware Compatibility List
<a href="#">Prime Factors Inc.</a>			NA	NA
<a href="#">QStar Archive Manager</a>	✓	<a href="#">White-papers</a>	<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Quantum StorNext</a>	✓		<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Retrospect</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Seven10 StorFirst</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">SGL StorHouse (FileTek)</a>	✓		NA	NA
<a href="#">SGL FlashNet</a>	✓		NA	NA
<a href="#">SoleraTec</a>			<a href="#">SCL</a>	NA
<a href="#">StorageDNA DNA Evolution</a>	✓		<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Veritas Backup Exec</a>		<a href="#">White-papers</a>	<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Veritas NetBackup</a>		<a href="#">White-papers</a>	<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">TOLIS BRU Server</a>	✓		<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Veeam Backup &amp; Replication</a>		<a href="#">White-papers</a>	<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">XenData Archive Series</a>	✓		<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Yoyotta</a>	✓		<a href="#">SCL</a>	<a href="#">HCL</a>

## Hardware Partners

Product	LTFS <sup>1</sup> Support	Link to Whitepapers	Software Compatibility List	Hardware Compatibility List
<a href="#">Cache-A PowerCache Appliance</a>	✓		NA	NA
<a href="#">Cache-A ProCache Appliance</a>			NA	NA
<a href="#">Crossroads ReadVerify Appliance</a>			NA	NA
<a href="#">Crossroads SPHiNX</a>			NA	NA
<a href="#">Crossroads StrongBox</a>	✓		NA	NA
<a href="#">FalconStor VTL</a>			NA	<a href="#">HCL</a>
<a href="#">Intradyn ComplianceVault</a>			NA	NA
<a href="#">NetApp Data ONTAP (NDMP)</a>			<a href="#">SCL</a>	<a href="#">HCL</a>
<a href="#">Tributary Storage Director</a>			NA	NA

# Hewlett Packard Enterprise - StoreOnce Systems

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This section includes the following:

- StoreOnce System Software
- StoreOnce Application Support - VTL, SMB, & NFS
- StoreOnce Catalyst Application & Feature Support
- StoreOnce Autonomic Restart Support
- StoreOnce Native Operating System App Support
- Recovery Manager Central (RMC) Support
- StoreOnce OS, HBA, Switch Support
- StoreOnce Virtual Machine Support

# Hewlett Packard Enterprise - System Software for StoreOnce Systems

## Supported StoreOnce Disk Storage Systems

StoreOnce System *G3* <sup>1,4,6</sup>	3.14.x	3.13.x	3.12.x	3.11.x	3.10.x	3.9.x
Latest StoreOnce Software →	3.14.1	3.13.3	3.12.2	3.11.7	3.10.1	3.9.4
6600	✓					
6500		✓	✓	✓	✓	
B6200		✓	✓	✓		✓
5500	✓					
5100	✓					
4900		✓	✓	✓	✓	
4700		✓	✓	✓		✓
4500		✓	✓	✓		✓
4430		✓	✓	✓		✓
4420		✓	✓	✓		✓
4220		✓	✓	✓		✓
4210 FC		✓	✓	✓		✓
4210 iSCSI		✓	✓	✓		✓
3540	✓					
3520	✓					
3100	✓					
2900		✓	✓			
2700		✓	✓	✓		✓
2620 iSCSI		✓	✓	✓		✓
2610 iSCSI		✓	✓	✓		✓
StoreOnce VSA (VMware & Hyper-V) <sup>2,3,5</sup>		✓	✓	✓		

### Notes

1. Supported browsers are IE9, 10, 11, Firefox v22 and later, & Firefox ESR 24.x and later.
2. The Hyper-V setting VMQ (Virtual Machine Queues) must be disabled when using a Broadcom NIC. For additional information, refer to <http://support.microsoft.com/kb/2902166>
3. Supported with ESXi 6.0 / 5.5 / 5.1 and Windows Server 2012 R2 Hyper-V / Core.
4. StoreOnce Catalyst is compatible with all "G3" StoreOnce models.
5. See [hpe.com/storage/StoreOnceVSA](http://hpe.com/storage/StoreOnceVSA) for more information.
6. StoreOnce replication compatibility is "any to any" across any platform generation and any StoreOnce System Software level.

# Hewlett Packard Enterprise - StoreOnce VTL Application & NDMP Support

IMPORTANT: This table shows compatibility between StoreOnce versions and backup and recovery software versions.

Consult your ISV/IHV vendor's compatibility guide(s) to confirm ISV/IHV product and operating system

version support details. See [ISV Compatibility Links](#) Page for hyperlinks to partner websites.

Partner Solutions	Latest Supported	Earliest Supported	StoreOnce 3.14.x	StoreOnce 3.13.x	StoreOnce 3.12.x	StoreOnce 3.11.x	StoreOnce 3.10.x	StoreOnce 3.9.x
HPE Data Protector	9.x	7.x	✓	✓	✓	✓	✓	✓
HPE NonStop Backbox	H4.00	H4.00	✓	✓	✓	✓		
Acronis Backup Advanced	11.x	11.x	✓	✓	✓	✓	✓	✓
Arcserve Backup	17.x	16.x	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>
ASG Time Navigator	4.x	4.x	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>
Blue Arc			✓ <sup>2</sup>	✓ <sup>2</sup>				
Bridgehead Software HDM	13b	13a	✓	✓	✓	✓	✓	✓
Commvault Simpana	10	9.x	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>
Dell NetVault	11.x.x	8.6.x	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>
EMC NetWorker	9.x	7.x	✓	✓	✓	✓	✓	✓
IBM BRMS <sup>3</sup>	V7R2M0	V6R1M1	✓ <sup>2</sup>	✓ <sup>3</sup>				
IBM Spectrum Protect (TSM) <sup>1</sup>	7.1	6.3	✓	✓	✓	✓		✓
Microsoft DPM	2012	2010	✓	✓	✓	✓		✓
Oracle Secure Backup	6.1	6.1	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>
Veritas Backup Exec	15	2010	✓	✓	✓	✓	✓	✓
Veritas NetBackup	7.x	7.x	✓	✓	✓	✓	✓	✓
Tributary Systems Storage Director	10	10	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>2</sup>

## NDMP Support

HPE supports StoreOnce VTLs (Virtual Tape Library) connected via Fibre Channel or iSCSI to any NDMP environment in which both the data protection application vendor (ISV, NDMP client) and the appliance vendor (NDMP server) support HPE StoreOnce VTL. The respective ISV and appliance vendor support sites must be reviewed to confirm HCL (hardware compatibility list) entries and other limitations or restrictions. If HPE StoreOnce VTL is not explicitly listed or otherwise restricted, then the customer must contact either the ISV and/or appliance vendor to add support. Please contact [BURASolutions@hpe.com](mailto:BURASolutions@hpe.com) for any further supportability details.

### Key

- ✓ Supported Solution - click to access more information including white papers
- ✓ Supported Solution
- ✓<sup>x</sup> Supported Solution - in conjunction with note X

### Notes:

1. For VSA support, Spectrum Protect (TSM) is supported with iSCSI VTL on Windows and Linux. Spectrum Protect (TSM) version must be V6.2.2 or higher .
2. Please contact [BURASolutions@hpe.com](mailto:BURASolutions@hpe.com) for support details.
3. Supported for IBM i Operating Systems only when using HPE StoreOnce VTL devices.

# Hewlett Packard Enterprise - StoreOnce SMB Application Support

IMPORTANT: This table shows compatibility between StoreOnce versions and backup and recovery software versions.

Consult your ISV/IHV vendor's compatibility guide(s) to confirm ISV/IHV product and operating system version support details. See [ISV Compatibility Links](#) Page for hyperlinks to partner websites.

Backup & Recovery Software	Latest Supported	Earliest Supported	StoreOnce 3.14.x	StoreOnce 3.13.x	StoreOnce 3.12.x	StoreOnce 3.11.x	StoreOnce 3.10.x	StoreOnce 3.9.x
HPE Data Protector	9.x	7.x	✓	✓	✓	✓	✓	✓
HPE VM Explorer <sup>4</sup>	6.1	6.1	✓	✓				
Acronis Backup Advanced	11.x	11.x	✓	✓	✓	✓	✓	✓
Arcserve Backup	17.x	15.x	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>
Arcserve UDP	6.0 U1	5.0 U4	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>			
Asigra Cloud Backup	v13	v12.2	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>		
Bridgehead Software HDM	13b	13a	✓	✓	✓	✓	✓	✓
Commvault Simpana	10	9.x	✓	✓	✓	✓	✓	✓
Dell NetVault	11.0.x	8.6.x	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>
EMC NetWorker <sup>1</sup>	9.x	7.x	✓	✓	✓	✓	✓	✓
ETI-NET Backbox	V4	V4	✓	✓	✓	✓		✓
IBM Spectrum Protect (TSM) <sup>2</sup>	7.1	6.33	✓	✓	✓	✓		✓
MS SQL Server native	2012	2008	✓	✓	✓	✓	✓	✓
Oracle RMAN	12c	10g	✓	✓	✓	✓	✓	✓
Veeam Backup	9	7	✓	✓	✓	✓	✓	✓
Veritas Backup Exec	15	2012	✓	✓	✓	✓	✓	✓
Veritas NetBackup	7.x	7.x	✓	✓	✓	✓	✓	✓

## Key

- ✓ Support Solution - click to access more information including white papers
- ✓ Support Solution
- ✓<sup>x</sup> Support Solution - in conjunction with note X

## Notes

1. Select within NetWorker: Advanced File Type Device (AFTD) option.
2. For VSA support, TSM is supported with iSCSI VTL on Windows and Linux. TSM version must be V6.2.2 or higher.
3. Please contact [BURA.Solutions@hpe.com](mailto:BURA.Solutions@hpe.com) for support details.
4. Instant VM recovery (IVMR) is not supported. Autonomic Restart on Multi-node StoreOnce is currently not support on VM Explorer.



# Hewlett Packard Enterprise - StoreOnce NFS Application Support

IMPORTANT: This table shows compatibility between StoreOnce versions and backup and recovery software versions.

Consult your ISV/IHV vendor's compatibility guide(s) to confirm ISV/IHV product and operating system version support details. See [ISV Compatibility Links](#) Page for hyperlinks to partner websites.

Backup & Recovery Software	Latest Supported	Earliest Supported	StoreOnce 3.14.x	StoreOnce 3.13.x	StoreOnce 3.12.x	StoreOnce 3.11.x	StoreOnce 3.10.x	StoreOnce 3.9.x
HPE Data Protector	9.x	7.x	✓	✓	✓	✓	✓	✓
Acronis Backup Advanced	11.x	11.x	✓	✓	✓	✓	✓	✓
Arcserve Backup	17.x	16.x	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>
Arcserve UDP	6.0 U1	5.0 U4	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>			
Asigra Cloud Backup	v13	v12.2	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>		
Bridgehead Software HDM	13b	13a	✓	✓	✓	✓	✓	✓
Commvault Simpana	10	9.x	✓	✓	✓	✓	✓	✓
Dell NetVault	11.0.x	8.6.x	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>
EMC NetWorker <sup>1</sup>	9.x	7.x	✓	✓	✓	✓	✓	✓
IBM Spectrum Protect (TSM) <sup>2</sup>	7.1	6.33	✓	✓	✓	✓	✓	✓
Oracle RMAN	12c	10g	✓	✓	✓	✓	✓	✓
Veritas NetBackup	7.x	6.x	✓	✓	✓	✓	✓	✓
Veeam Backup	9	7	✓	✓	✓	✓	✓	✓

## Key

- ✓ Supported Solution - click to access more information including white papers
- ✓ Supported Solution
- ✓<sup>x</sup> Supported Solution - in conjunction with note X

## Notes:

1. Select within NetWorker: Advanced File Type Device (AFTD) option.
2. For VSA support, Spectrum Protect (TSM) is supported with iSCSI VTL on Windows and Linux. Spectrum Protect (TSM) version must be V6.2.2 or higher
3. Please contact [BURA.Solutions@hpe.com](mailto:BURA.Solutions@hpe.com) for support details.

# Hewlett Packard Enterprise - StoreOnce Backup Application Support - Catalyst (Page 1 of 5)

This table shows backup software (Veritas on next three pages) that support StoreOnce Catalyst. Use this table to see Catalyst features supported by OS and the minimum StoreOnce software version required.

Application	Catalyst Features	Minimum StoreOnce software	Windows Server x64					RHEL x64			SLES x64		Oracle Linux x64 (UEK, RHK)		HP-UX IA64	Solaris SPARC 64		AIX Power	
			2012 R2	2012	2008 R2	7.x	6.x	12.x	11.x	10.x	7.x	6.x	11.31	11	10	7.1	6.1		
HPE Data Protector 9.x	CoE	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>2</sup>	✓ <sup>2</sup>	✓	✓	
	CoFC	3.12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>2</sup>	✓ <sup>2</sup>	✓ <sup>1</sup>	✓ <sup>1</sup>	
	CC	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>2</sup>	✓ <sup>2</sup>	✓	✓	
	FedCat	3.12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>2,3</sup>	✓ <sup>2,3</sup>	✓	✓	
HPE Data Protector 8.x	CoE	3.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	CoFC	n/a																	
	CC	3.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	FedCat	n/a																	
HPE Data Protector 7.x	CoE	3.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	CoFC	n/a																	
	CC	3.6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	FedCat	n/a																	
Bridgehead Software Healthcare Data Management 14a Release Set	CoE	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	CoFC	3.12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	CC	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	FedCat	3.12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
Bridgehead Software Healthcare Data Management 13a Release Set	CoE	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	CoFC	n/a																	
	CC	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	FedCat	n/a																	
Veeam Backup & Replication v9	CoE	3.13.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	CoFC	3.13.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	CC	n/a																	
	FedCat	n/a																	

- Key:
- ✓ Supported Solution
  - ✓\* Supported Solution - in conjunction with note X
  - CoE Catalyst backup over Ethernet
  - CoFC Catalyst backup over Fibre Channel
  - CC Catalyst Copy
  - FedCat Federated Catalyst over Ethernet and Fibre Channel

- Notes:
1. Prior to StoreOnce 3.14, CoFC on AIX is by request only, contact [BURA.Solutions@hpe.com](mailto:BURA.Solutions@hpe.com) if planning to connect to StoreOnce over FC from AIX to StoreOnce running versions lower than 3.14.
  2. SPARC T1 and T2 systems are only supported in high bandwidth mode.
  3. SPARC T1 and T2 systems do not support Federated Catalyst

# Hewlett Packard Enterprise - StoreOnce Veritas NetBackup Support - Catalyst (Page 2 of 5)

This table shows the supported versions of NetBackup with the StoreOnce Catalyst OST plug-ins for these products.  
Use this table to see Catalyst and OST features supported on Media Servers with various supported Operating Systems.

Application	+	HPE Plug-in	Catalyst & OST features	Minimum StoreOnce software	Windows Server x64			RHEL x64			SLES x64		Oracle Linux x64		HP-UX IA64	Solaris SPARC 64		AIX Power			
					2012 R2	2012	2008 R2	7.x	6.x	12.x	11.x	10.x	7.x	6.x	11.31	11	10	7.1	6.1		
Veritas NetBackup 7.7 <sup>1</sup>	+	HPE OST plug-in 3.15 for NetBackup <sup>2</sup>	CoE	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
			CoFC	3.12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
			FedCat	3.12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
			Opt_Dup	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
			Accelerator	3.13.3	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>					
			Accel_NDMP	n/a																	
			Accel_VMware	3.13.3	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>					
			A.I.R.	3.13.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
			Targeted_A.I.R.	3.13.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
			GRT	3.11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
			GRT_VMware	3.11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
			IR_VMware	n/a																	
			Opt_Synth	n/a																	
			Veritas NetBackup 7.6 <sup>1</sup>	+	HPE OST plug-in 3.15 for NetBackup <sup>2</sup>	CoE	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5</sup>	✓ <sup>5</sup>	✓
CoFC	3.12	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5,7</sup>	✓ <sup>5,7</sup>	✓ <sup>3,7</sup>	✓ <sup>3,7</sup>	
FedCat	3.12	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5,6</sup>	✓ <sup>5,6</sup>	✓	✓	
Opt_Dup	3.9	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓	
Accelerator	3.13.3	✓ <sup>4</sup>				✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>		✓ <sup>4,5</sup>	✓ <sup>4,5</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>
Accel_NDMP	n/a																				
Accel_VMware	3.13.3	✓ <sup>4</sup>				✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>		✓ <sup>4,5</sup>	✓ <sup>4,5</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>
A.I.R.	3.13.1	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓
Targeted_A.I.R.	3.13.1	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
GRT	3.11	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓
GRT_VMware	3.11	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓
IR_VMware	n/a																				
Opt_Synth	n/a																				
Veritas NetBackup 7.5 <sup>1</sup>	+	HPE OST plug-in 3.15 for NetBackup <sup>2</sup>				CoE	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5</sup>	✓ <sup>5</sup>	✓
			CoFC	3.12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5,7</sup>	✓ <sup>5,7</sup>			
			FedCat	3.12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5,6</sup>	✓ <sup>5,6</sup>	✓	✓	
			Opt_Dup	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓	
			Accelerator	3.13.3	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>		✓ <sup>4,5</sup>	✓ <sup>4,5</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>
			Accel_NDMP	n/a																	
			Accel_VMware	n/a																	
			A.I.R.	3.13.1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓
			Targeted_A.I.R.	n/a																	
			GRT	3.11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓
			GRT_VMware	3.11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓
			IR_VMware	n/a																	
			Opt_Synth	n/a																	

**Key:**

- ✓ Supported Solution
- ✓<sup>x</sup> Supported Solution - in conjunction with note X
- CoE Catalyst backup over Ethernet
- CoFC Catalyst backup over Fibre Channel
- FedCat Federated Catalyst over Ethernet and Fibre Channel
- Opt\_Dup Optimized Duplication over Ethernet

- Accelerator OST Accelerator
- Accel\_NDMP OST Accelerator for NDMP
- Accel\_VMware OST Accelerator for VMware
- A.I.R. Auto Image Replication
- Targeted\_A.I.R. Targeted Auto Image Replication
- GRT Granular Recovery Technology
- GRT\_VMware Granular Recovery Technology with VMware-type policies
- IR\_VMware Instant Recovery for VMware
- Opt\_Synth Optimized Synthetics

**Notes:**

1. LSU spanning is not supported.
2. Available from [hpe.com/StoreOnce/VERITAS](http://hpe.com/StoreOnce/VERITAS)
3. Prior to StoreOnce 3.14, CoFC on AIX is by request only, contact [BURA.Solutions@hpe.com](mailto:BURA.Solutions@hpe.com) if planning to connect to StoreOnce appliance over FC from AIX to StoreOnce running versions lower than 3.14.
4. Please contact [BURA.Solutions@hpe.com](mailto:BURA.Solutions@hpe.com) before deploying StoreOnce in a solution that uses NetBackup Accelerator. Accelerator is supported in low bandwidth mode only, it is not supported in high bandwidth mode.
5. SPARC T1 and T2 systems are only supported in high bandwidth mode.
6. SPARC T1 and T2 systems do not support Federated Catalyst
7. Awaiting listing on NetBackup 7.x HCL.

# Hewlett Packard Enterprise - StoreOnce Veritas NetBackup Support - Catalyst (Page 3 of 5)

This table shows the supported versions of NetBackup with the StoreOnce Catalyst OST plug-ins for these products.

Use this table to see Catalyst and OST features supported on Media Servers on supported OS.

Application	+	HPE Plug-in	Catalyst & OST features	Minimum StoreOnce software	Windows Server x64			RHEL x64			SLES x64			Oracle Linux x64		HP-UX IA64		Solaris SPARC 64		AIX Power	
					2012 R2	2012	2008 R2	7.x	6.x	12.x	11.x	10.x	7.x	6.x	11.31	11	10	7.1	6.1		
Netbackup Appliance <sup>1</sup> 52xx/53xx	+	HPE OST plug-in for NetBackup Appliance 3.1.5 <sup>2</sup>	CoE	3.12							✓	✓	✓								
			CoFC	3.12							✓	✓	✓								
			FedCat	3.12							✓	✓	✓								
			Opt_Dup	3.12							✓	✓	✓								
			Accelerator	3.13.3							✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>								
			Accel_NDMP	n/a																	
			Accel_VMware	3.13.3							✓	✓	✓								
			A.I.R.	3.13.1							✓	✓	✓								
			Targeted_A.I.R.	3.13.1							✓	✓	✓								
			GRT	3.12							✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>								
			GRT_VMware	3.12							✓ <sup>4</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>								
			IR_VMware	n/a																	
			Opt_Synth	n/a																	

**Key:**

- ✓ Supported Solution
- ✓<sup>x</sup> Supported Solution - in conjunction with note X
- CoE Catalyst backup over Ethernet
- CoFC Catalyst backup over Fibre Channel
- FedCat Federated Catalyst over Ethernet and Fibre Channel
- Opt\_Dup Optimized Duplication over Ethernet
- Accelerator OST Accelerator
- Accel\_NDMP OST Accelerator for NDMP
- Accel\_VMware OST Accelerator for VMware
- A.I.R. Auto Image Replication
- Targeted\_A.I.R. Targeted Auto Image Replication
- GRT Granular Recovery Technology
- GRT\_VMware Granular Recovery Technology with VMware-type policies
- IR\_VMware Instant Recovery for VMware
- Opt\_Synth Optimized Synthetics

**Notes:**

1. LSU spanning is not supported.
2. Available from [hpe.com/storage/StoreOnce/VERITAS](http://hpe.com/storage/StoreOnce/VERITAS)
3. Please contact [BURA.Solutions@hpe.com](mailto:BURA.Solutions@hpe.com) before deploying StoreOnce in a solution that uses NetBackup Accelerator. Accelerator is supported in low bandwidth mode only, it is not supported in high bandwidth mode.
4. Please contact [BURA.Solutions@hpe.com](mailto:BURA.Solutions@hpe.com) if you plan to use Granular Recovery with a NetBackup Appliance.

## Hewlett Packard Enterprise - StoreOnce Veritas Backup Exec Support - Catalyst (Page 4 of 5)

This table shows the supported versions of Backup Exec with the StoreOnce Catalyst OST plug-ins for these products.

Use this table to see Catalyst and OST features supported on Media Servers on supported OS.

Application	+ HPE Plug-in	Catalyst & OST features	Minimum StoreOnce software	Windows Server x64		
				2012 R2	2012	2008 R2
Veritas Backup Exec 15	+ HP OST 2.0.1 <sup>1</sup>	CoE	3.9	✓	✓	✓
		CoFC	n/a			
		FedCat	n/a			
		Opt_Dup	3.9	✓	✓	✓
		GRT	n/a			
Veritas Backup Exec 2014	+ HP OST 2.0.1 <sup>1</sup>	CoE	3.9	✓	✓	✓
		CoFC	n/a			
		FedCat	n/a			
		Opt_Dup	3.9	✓	✓	✓
		GRT	n/a			
Veritas Backup Exec 2012	+ HP OST 2.0.1 <sup>1</sup>	CoE	3.9	✓	✓	✓
		CoFC	n/a			
		FedCat	n/a			
		Opt_Dup	3.9	✓	✓	✓
		GRT	n/a			

### Key:

- ✓ Supported Solution
- ✓\* Supported Solution - in conjunction with note X
- CoE Catalyst backup over Ethernet
- CoFC Catalyst backup over Fibre Channel
- FedCat Federated Catalyst over Ethernet and Fibre Channel
- Opt\_Dup Optimized Duplication over Ethernet
- GRT Granular Recovery Technology

### Notes:

1. OST Plug-in available to download from [hpe.com/storage/StoreOnce/VERITAS](http://hpe.com/storage/StoreOnce/VERITAS)

# Hewlett Packard Enterprise - StoreOnce Business Application Support - Catalyst (Page 5 of 5)

This table shows the applications for which plug-ins are available to enable direct backup to a Catalyst Store on HPE StoreOnce Backup Appliance. Use this table to see which Catalyst features are supported on which operating systems.

Application	StoreOnce plug-in	Catalyst Features	Minimum StoreOnce software	Windows Server x64				RHEL x64			SLES x64			Oracle Linux x64 (UEK, RHK)		HP-UX IA64	Solaris SPARC 64		AIX Power		
				2012 R2	2012	2008 R2	7.x	6.x	12.x	11.x	10.x	7.x	6.x	11.31	11	10	7.1	6.1			
Oracle 10g, 11g, 12c (Stand Alone, RAC, Exadata)	StoreOnce Plug-in for Oracle RMAN 3.0 <sup>2</sup>	CoE	3.11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓	
		CoFC	3.12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>5</sup>	✓ <sup>5</sup>	✓ <sup>4</sup>	✓ <sup>4</sup>	
		FedCat	3.12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>5,7</sup>	✓ <sup>5,7</sup>	✓	✓	
		CC	3.11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓	
Microsoft SQL Server 2008 SP2, 2012, 2014	StoreOnce Plug-in for Microsoft SQL Server 1.0 <sup>3</sup>	CoE	3.11	✓	✓	✓															
		CoFC	3.12	✓	✓	✓															
		FedCat	3.12	✓	✓	✓															
		CC	3.11	✓	✓	✓															
SAP HANA SPS v8, 9	StoreOnce Plug-in for SAP HANA 1.0 <sup>6</sup>	CoE	3.12						✓		✓										
		CoFC	3.13						✓		✓										
		FedCat	3.12						✓		✓										
		CC	3.12						✓ <sup>1</sup>		✓ <sup>1</sup>										

Key:

- ✓ Supported Solution
- ✓<sup>x</sup> Supported Solution - in conjunction with note X
- CoE Catalyst backup over Ethernet
- CoFC Catalyst backup over Fibre Channel
- FedCat Federated Catalyst over Ethernet and Fibre Channel
- CC Catalyst Copy over Ethernet

Notes:

1. Copy is executed using an external utility that is included with the plug-in download package.
2. Available from [hpe.com/storage/StoreOnce/OracleRMAN](http://hpe.com/storage/StoreOnce/OracleRMAN)
3. Available from [hpe.com/storage/StoreOnce/SQLServer](http://hpe.com/storage/StoreOnce/SQLServer)
4. Prior to StoreOnce 3.14, CoFC on AIX is by request only, contact [BURA.Solutions@hpe.com](mailto:BURA.Solutions@hpe.com) if planning to connect to StoreOnce appliance over FC from AIX to StoreOnce running versions lower than 3.14.
5. SPARC T1 and T2 systems are only supported in high bandwidth mode.
6. Available from [hpe.com/storage/StoreOnce/SAP](http://hpe.com/storage/StoreOnce/SAP).
7. SPARC T1 and T2 systems do not support Federated Catalyst

# Hewlett Packard Enterprise - StoreOnce Backup Application Support - Autonomic Restart<sup>1</sup>

This table shows backup software that supports the StoreOnce Autonomic Restart feature.

Application	Minimum StoreOnce software	Windows Server x64			RHEL x64			SLES x64			Oracle Linux x64 (UEK, RHK)			HP-UX IA64	Solaris SPARC 64		AIX Power		
		2012 R2	2012	2008 R2	7.x	6.x	5.x	12.x	11.x	10.x	7.x	6.x	5.x	11.31	11	10	7.1	6.1	
HPE Data Protector 9.x	3.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
HPE Data Protector 8.x	3.6	✓	✓	✓		✓	✓			✓	✓			✓					
HPE Data Protector 7.x	3.6	✓	✓	✓		✓	✓			✓	✓								
Bridgehead Software Healthcare Data Management 14a	3.9	✓	✓	✓															
Bridgehead Software Healthcare Data Management 13a	3.9	✓	✓	✓															
IBM Spectrum Protect (TSM) <sup>3</sup>	3.12	✓		✓	✓	✓			✓	✓					✓	✓	✓	✓	
Veeam Backup & Replication v9	n/a																		
Veritas NetBackup 7.7 <sup>1</sup>	n/a																		
Veritas NetBackup 7.6 <sup>1</sup>	3.9	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓ <sup>2</sup>	✓ <sup>2</sup>	✓	✓	
Veritas NetBackup 7.5 <sup>1</sup>	3.9	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓ <sup>2</sup>	✓ <sup>2</sup>	✓	✓	
Netbackup Appliance <sup>1</sup> 52xx/53xx	3.12								✓	✓	✓								
Veritas Backup Exec 15	n/a																		
Veritas Backup Exec 2014	n/a																		
Veritas Backup Exec 2012	n/a																		
Oracle 10g, 11g, 12c (Stand Alone, RAC, Exadata)	3.11	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓ <sup>2</sup>	✓ <sup>2</sup>	✓	✓	
Microsoft SQL Server 2008 SP2, 2012, 2014	3.11	✓	✓	✓															
SAP HANA SPS v8, 9	3.12					✓				✓									
SAP on Oracle 11g, 12c (Stand Alone, RAC on File System) <sup>10</sup>	3.13.1	✓	✓	✓	✓	✓				✓			✓	✓				✓	✓

Notes:

1. Contact [BURA.Solutions@hpe.com](mailto:BURA.Solutions@hpe.com) before deploying a solution that uses Autonomic Restart for continued operations in event of node outage. Multi-node appliances only.
2. SPARC T1 and T2 systems are only supported in high bandwidth mode.
3. IBM Tape VTL emulation only; TSM v6.3.4 required for all operating systems except RHEL which supports all versions through Spectrum Protect version 7.1.4. Spectrum Protect version 7.1.5 is supported with autonomic restart on AIX.

# Hewlett Packard Enterprise - StoreOnce Native Operating System Backup Support

This table shows support between various operating systems and native backup utilities.

Operating System	Windows Backup	TAR <sup>2</sup>	CPIO <sup>2</sup>	DD <sup>2</sup>	Fbackup / Frestore <sup>1</sup>	ufsdump / ufsrestore <sup>2</sup>	Native Save/Restores <sup>3</sup>
Windows Server 2012 R2 (x64)							
Windows Server 2012 (x64)							
Windows Server 2008 R2 (x64)							
Windows Server 2008 (x64)							
Windows Server 2008 (x86)							
RHEL 7.x (x64)		✓	✓	✓			
RHEL 6.x (x64)		✓	✓	✓			
RHEL 6.x (x86)		✓	✓	✓			
SLES 12 (x64)		✓	✓	✓			
SLES 11 (x64)		✓	✓	✓			
SLES 11 (x86)		✓	✓	✓			
HP-UX 11iv3 (11.31) (Integrity)		✓	✓	✓	✓		
Solaris 11 (x64)		✓	✓	✓		✓	
Solaris 11 (x86)		✓	✓	✓		✓	
Solaris 11 (SPARC)		✓	✓	✓		✓	
Solaris 10 (SPARC)		✓	✓	✓		✓	
AIX 7.1 (Power)		✓	✓	✓			
AIX 6.1 (Power)		✓	✓	✓			
IBM i V7R2M0 (Power)							✓
IBM i V7R1M0 (Power)							✓
IBM i V6R1M1 (Power)							✓
HP NonStop							

Key:

- ✓ Supported Solution
- ✓\* Supported Solution - in conjunction with note X

Notes:

1. Support NFS
2. Supports VTL (FC & iSCSI) and NAS (NFS)
3. D-Mode IPL operations for Native System Recovery from VTL supported for both Standalone and Replicating StoreOnce appliances.



# Hewlett Packard Enterprise - Recovery Manager Central

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This section includes the following:

- RMC supported versions
- RMC supported operations
- RMC connectivity protocol support
- RMC Browser Support
- RMC Licensing
- RMC Plug-in support
- RMC Backup ISV support

# Hewlett Packard Enterprise - Recovery Manager Central (RMC) Page 1 of 3

HPE Recovery Manager Central (RMC)	Version 2.0.2 & 2.0.0	Version 1.2.1, 1.2 & 1.1	Version 1.0
<b>VMware ESXi Host</b>	6.0 U1 <sup>1</sup> , 6.0, 5.5 U2-U3 & 5.1 U2	6.0 <sup>1</sup> , 5.5 U2-U3 & 5.1 U2	5.5 U2-U3 & 5.1 U2
<b>HP 3PAR StoreServ<sup>11</sup></b>	20x00, 10x00, 84xx, 8200, 74xx, 7200, F-Class & T-Class	20x00, 10x00, 84xx, 8200, 74xx, 7200, F-Class & T-Class	10x00, 74xx, 7200, T-Class and F-Class
<b>HP 3PAR StoreServ Firmware</b>	3.2.2 [MU2, MU1], 3.2.1 [MU3, MU2, MU1], 3.1.3 MUX, 3.1.2 MU5	3.2.2 MU1 <sup>2</sup> , 3.2.2 <sup>2</sup> , 3.2.1 MU3 <sup>2</sup> , 3.2.1 MU1/MU2, 3.1.3 MUX, 3.1.2 MU5	3.2.1 MU1/MU2, 3.1.3 Mux, 3.1.2 MU5
<b>HP 3PAR Remote Copy<sup>12</sup></b>	Yes <sup>8</sup>	Yes <sup>8</sup>	No
<b>3PAR Peer Persistence</b>	Yes <sup>13</sup>	Yes	No
<b>All HPE StoreOnce Physical appliances &amp; VSA (Virtual Storage Appliance)</b>	3.14.1, 3.14.0, 3.13.3, 3.13.1, 3.13.0, 3.12.0 or later and 3.11.2 or later	3.13.1 <sup>10</sup> , 3.13.0 <sup>10</sup> , 3.12.0 or later and 3.11.2 or later	3.12.0 or later and 3.11.2 or later

Supported RMC Operations <sup>3</sup>	Snapshots	Express Protect <sup>4, 5, 6</sup>	Element Recovery Technology (ERT) <sup>9</sup>
<b>HP 3PAR OS 3.2.2 MU1</b>	Yes	Yes	Yes
<b>HP 3PAR OS 3.2.1 MU1, MU2, MU3</b>	Yes	Yes <sup>7</sup>	Yes
<b>HP 3PAR OS 3.1.3 MUX</b>	Yes	No	No
<b>HP 3PAR OS 3.1.2 MU5</b>	Yes	No	No

## HPE RMC to HP 3PAR StoreServ Connectivity Protocol

Connectivity Protocol	Support Type	Notes
<b>Fibre Channel (FC)</b>	VMDirectPath HBA only	FC is not supported with ESXi 5.1 Host for Express Protect feature for ProLiant Servers. ProLiant servers with ESXi 5.5 require VMware patch VMware-ESXi550-201501001.
<b>iSCSI</b>	1GbE or 10GbE (10GbE Recommended)	CHAP is not supported.

## HPE RMC to HPE StoreOnce Appliance Connectivity Protocol

Connectivity Protocol	Support Type	Notes
<b>Catalyst Over Ethernet (CoE)</b>	1GbE or 10GbE (10GbE Recommended)	Catalyst Copy operation is supported only through CoE and not through CoFC.
<b>Catalyst Over Fibre Channel (Uses VMDirectPath FC HBA only)</b>	FC HBAs 4, 8, or 16Gb ( 8/16Gb Recommended)	Recommended 8/16Gb. HP ProLiant Servers with ESXi 5.5 requires VMware patch. VMware-ESXi550-201501001.

## VMDirectPath FC HBAs supported on RMC appliance for Express Protect

Speed	HP Q-Series (Qlogic) FC HBAs	HP E-Series (Emulex) FC HBAs
<b>16GBps</b>	Yes	Yes
<b>8GBps</b>	Yes	Yes
<b>4GBps</b>	Yes	No

### Notes:

- vVOL feature is supported with RMC 1.2 or later
- RMC must be upgraded from 1.0 to 1.1 or later, if 3PAR Firmware is upgraded from 3.2.1 MU1/MU2 to 3.2.1 MU3 or later.
- For FC connectivity, RMC supports only one path between a given HPE 3PAR StoreServ and HPE RMC appliance.
- With HPE 3PAR StoreServ Remote Copy configuration, only local Express Protect backup is supported.
- Full and Incremental (Synthetic Full) backup features are supported.
- Multi-streaming feature is supported for Full backup and Incremental backup
- Incremental backup is supported with 3.2.1 MU3 or later.
- Supports Synchronous, Asynchronous Periodic, and Synchronous Long Distance (SLD), 1:1 Remote Copy Configuration. RMC 2.0.0 or later is required for True Asynchronous Remote Copy support.
- ERT feature is supported with Express Protect using RMC 1.2.0 or later
- RMC 1.2.1 or later require a RMC supported version of HPE StoreOnce 3.13.1 or later.
- RMC can protect any 3PAR application data with crash-consistent snapshots and Express Protect backups. Application-consistency is ensured only for a limited subset of supported applications and is licensed separately. Users however can write their own custom scripts using the RMC REST API SDK to make their snapshots application-consistent for their specific applications.
- In RMC Remote Copy configuration first 8 characters of Remote Copy group volume names should be unique within a group.
- Peer Persistence is not supported by RMC SQL Server plugin (RMC-S).

# Hewlett Packard Enterprise - Recovery Manager Central (RMC) Page 2 of 3

## Data Protection for HPE 3PAR StoreServ File Persona Support<sup>2</sup>

RMC Version	Version
RMC 2.0.2 & 2.0.0	HPE 3PAR File Persona Software Suite enables user-driven file recovery by using point-in-time File Store snapshots, which are different from block-level Virtual Copy snapshots at volume level. RMC supports block-level Virtual Copy snapshots. See whitepaper <a href="#">HPE 3PAR File Persona with HPE RMC</a> for more details.

## Browser versions supported by RMC (For information on the supported browsers for using the vSphere Web Client, see VMware documentation center.)

Browser	Version
Google Chrome	36 and above
Internet Explorer <sup>1</sup>	11, 10 and 9
Mozilla Firefox	Mozilla Firefox 31 and above
Mozilla Firefox	ESR 24 and above

## Licenses

Functionality	License Type
StoreOnce Catalyst	It is mandatory to have catalyst licenses to be installed on StoreOnce units before performing Express Protect backup operations
RMC REST APIs	It is mandatory to have any one of the following licenses: * Application specific license (for example, RMV license). * RMC base license.
RMC-V support	* RMV License (Application specific license). * RMC base license is not required.
RMC-S support	* RMySQL License
RMC VSS Provider	* No License required as software is packaged with RMC-S

## 3PAR StoreServ License

HP 3PAR StoreServ License	Required (Mandatory/Optional)	Notes
Virtual Copy License	Mandatory	Mandatory for Snapshot and Express Protect features.
Virtual Lock License	Optional	Mandatory if the snapshot policy "retention time" needs to be used.
Thin Provisioning License	Optional	
Thin Persistence License	Optional (Recommended)	This license is recommended to ensure space is not allocated for zeroes written during restore.
Thin Copy Reclamation License	Optional (Recommended)	This license is recommended to reclaim space when snapshots are deleted from HP 3PAR StoreServ system.
Remote Copy License	Optional (Recommended)	This license is mandatory for remote copy snapshot operation.

## Support matrix for RMC Configurations (vCPU and vRAM)

Recovery Manager Central (RMC) Configurations	16 vCPU/ 64 GB vRAM	8 vCPU/ 32 GB vRAM	4 vCPU/ 16 GB vRAM	2 vCPU/ 8GB vRAM (Default)
Max 3PAR StorServ Storage arrays	16	8	4	2
Max 3PAR Vols	64k	32k	16k	8k
Max StoreOnce systems	16	8	4	2
Max StoreOnce Catalyst Stores	192	96	48	24
No of Snapshots per minute without backup	160	160	160	96
No of Snapshots per minute with backup	80	80	80	48
Max Recovery Sets Backed Up In Parallel	32	16	8	4
Max Volumes Per Recovery Set	8	8	8	8
Max Volume Size	16 TB	16 TB	16 TB	16 TB
Max Streams Per Volume	16	16	16	16
Max synthetic full speed (TB/hour)	80	40	20	10
Max restore speed (TB/hour)	5	5	4	2
Max Streams	256	128	64	32

### Notes:

- Internet Explorer is not supported for upgrading from RMC 1.0 to later versions.
- Refer to the white paper "[Data protection for HPE 3PAR File Persona with HPE Recovery Manager Central](#)" for the detailed procedure for snapshot creation, Express Protect backup and data recovery on HPE 3PAR File Persona file shares.

# Hewlett Packard Enterprise - Recovery Manager Central (RMC) Page 3 of 3

## RMC plug-in for VMware (RMC-V) Specific Support Matrix

Product/feature supported	Recovery Manager Central for VMware (RMC) 2.0.2 & 2.0.0	Recovery Manager Central for VMWare (RMC) 1.2.1, 1.2 and 1.1	Recovery Manager Central for VMWare (RMC) 1.0
<b>vCenter Client</b>	VMware vSphere Web client	VMware vSphere Web client	VMware vSphere Web client
<b>vCenter Server Appliance (vCSA)</b>	vCenter Server 6.0 U1 and 5.5 U2-U3	vCenter Server 6.0 and 5.5 U2-U3	vCenter Server 5.5 U2-U3
<b>vCenter Server on Windows host</b>	vCenter Server 6.0 U1, 5.5 U2-U3 and 5.1 U2	vCenter Server 6.0, 5.5 U2-U3 and 5.1 U2	vCenter Server 5.5 U2-U3, 5.1 U2
<b>VMware vSphere Editions</b>	Standard, Enterprise, Enterprise Plus 6 and 5	Standard, Enterprise, Enterprise Plus 6 and 5	Standard, Enterprise, Enterprise Plus 5
<b>RMC-V Migration <sup>1</sup></b>	Not Supported. HPE 3PAR Recovery Manager for VMware needs to be migrated to RMC versions 1.1.0 or 1.2.1 and upgraded to RMC 2.0.0	HP 3PAR Recovery Manager for VMware 2.5 or later	HP 3PAR Recovery Manager for VMware 2.5 or later
<b>HPE OneView for VMware vCenter</b>	7.8.2, 7.8.1, 7.8.0.126	7.8.0.126, 7.7.1 and 7.7 <sup>3</sup>	7.5.2
<b>Number of Recovery manager Central(RMC) per VMware vCenter Server <sup>2</sup></b>	8	8	8

## RMC plug-in for MS SQL Server (RMC-S) Specific Support Matrix

Product/feature supported	Versions
Microsoft Windows Server	Windows 2012 R2 ( Std & DC Edition ), Windows 2012 (Std & DC Edition), & Windows 2008 R2 (Std, Ent & DC Edition)
Hypervisor	VMware ESXi 6.0 U1, ESXi 5.5 U3, ESXi 5.1 U3
Virtual Fibre Channel Support	Windows Server 2012 and 2012R2 with the Hyper-V role installed.
Microsoft SQL Server	2014 SP1, 2012 SP2, 2008 R2 SP4 & 2008 SP3
HP 3PAR VSS Hardware Provider	Co-existence with HP 3PAR VSS Hardware provider supported.
HPE RMC VSS Provider	2.0.2
Microsoft SQL Server ( Chinese/Japanese )	Japanese, Chinese version of SQL 2008 R2 SP3, 2012 SP2 and SQL 2014 SP1(X64)
Microsoft Windows Server( Chinese/Japanese )	Japanese, Chinese Datacenter Edition of Windows 2012 R2, Windows 2012, Windows 2008 R2 x64 and Japanese Windows 2012 R2 Standard Edition.
File System	NTFS, GPT and local basic disk types
Multipath on RMC-S Interface Server	Microsoft Native MPIO, Microsoft Native iSCSI Initiator
Cluster	Windows Server Failover Clustering (WSFC)
RMC-S Migration	Recovery Manager Software (RMS) version 4.6 or later to RMC-S
Support for more than one RMC	No
<b>RMC-S Backup ISV support</b>	
HPE Data protector	9.03, 8.13 and 7.03
Veritas Backup Exec	2010 R3
Veritas NetBackup	7.7.1, 7.6.0.3, 7.5

## Interface Server Resource Requirement (Minimum)

Operating System version	CPU ( GHz)	RAM ( GB )	Disk Space ( GB)
Microsoft Windows Server 2012 R2 SP1 (X64), 2012 R2 & 2012	2	4	50
Microsoft Windows Server 2008 R2 SP1 (X64), 2008 R2 & 2008	2	4	50

### RMC-S Notes:

- RMC-S has support for only Windows X64 bit Operating System.
- Mixed mode authentication of Microsoft SQL Server is not supported.
- Support for Virtual Copy on network mapped volume is not supported.
- Cluster Shared Volumes (CSVs) are not supported in MS SQL Server AlwaysOn Availability Group (AAG).
- HPE 3PAR Recovery Manager for Exchange (RME) Backup Server and RMC-Scan coexist in a single server.
- RMC-S coexistence with HPE 3PAR Cluster Extension (CLX) Software is supported.
- RMC-S supports only snapshot operation when VMware RDM (Raw Device Mapping) LUNs are used for RMC-S Interface server.
- HPE RMC-S does not support Remote Copy with Peer Persistence.

### Notes:

1. RMC-V: Migration does not support multi-RMC configuration. It is advised to first configure single RMC instance and migrate the data and then add other RMC instances
2. Multi RMC is not supported for 3PAR Remote Copy Solution
3. HP OV4VC version 7.7 is supported only with RMC version 1.1. HP OV4VC version 7.8 and 7.7.1 are supported only with RMC versions 1.2 and 1.2.1.

# Hewlett Packard Enterprise - StoreOnce - OS, HBA, Switch Support

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This section includes the following:

- StoreOnce Operating System Support
- StoreOnce FC and FCoE HBA Support
- StoreOnce Switch Support

IMPORTANT: This section applies to StoreOnce only. FC VTL and NAS is supported unless otherwise noted.

# Hewlett Packard Enterprise - StoreOnce - HP-UX (Integrity)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers.

See the [HP-UX Support matrix](#) for server & operating systems support details.

## HP-UX (Integrity) Direct Attached & SAN Support

### Operating Systems

### Version

HP-UX 11i v3 (11.31)	HWE & QPK bundles, March 2015
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### Servers

### Supported

HP Integrity Superdome 2 and rx Series (i2 / i4)	✓
HP BladeSystem c-Class Integrity Servers (i2 / i4)	✓

Adapter	Description	Interface	Firmware	11iv3 Driver
CN1100E (AT111A) <sup>1</sup>	10GbE CNA	PCI-e	4.9.416.12	B.11.31.1505
NC553m (613431-B21) <sup>1</sup>	10GbE HP BladeSystem CNA		4.9.416.12	B.11.31.1505
NC553i <sup>1</sup>	10GbE HP BladeSystem CNA		4.9.416.12	B.11.31.1505
SN1000Q (B9F23A & B9F24A)	16Gb FC HBA	PCI-e	6.07.02	B.11.31.1506
81Q (AH400A) & 82Q (AH401A)	8Gb FC HBAs	PCI-e	5.06.06	B.11.31.1506
81E (AH402A) & 82E (AH403A)	8Gb FC HBAs	PCI-e	2.02x2	B.11.31.1503
AT094A (FC)	8Gb FC HBAs	PCI-e	2.02x2	B.11.31.1503
AT094A (FCoE)	8Gb FC HBAs	PCI-e	4.9.416.12	B.11.31.1503
QMH2562 (451871-B21)	8Gb HP BladeSystem c-Class FC HBA		5.06.06	B.11.31.1506
LPe1205 (456972-B21)	8Gb HP BladeSystem c-Class FC HBA		2.02x2	B.11.31.1503
AD299A & AD355A	4Gb FC HBA	PCI-e	2.82x4	B.11.31.1503
AD300A	4Gb FC HBA	PCI-e	5.03.15	B.11.31.1503
AD221A, AD222A & AD393A	4Gb FC HBA Combo Card	PCI-e	2.82x4	B.11.31.1503
AD193A & AD194A	4Gb FC HBA Combo Card	PCI-X 2.0	5.03.15	B.11.31.1503
AB379A, AB379B, AB378A & AB378B	4Gb FC HBA	PCI-X 2.0	5.03.15	B.11.31.1503
QMH2462 (403619-B21)	4Gb HP BladeSystem c-Class FC HBA	PCI-e	5.03.15	B.11.31.1503
LPe1105 (403621-B21)	4Gb HP BladeSystem c-Class FC HBA	PCI-e	2.82x4	B.11.31.1503

#### Notes:

1. Not supported with Library and Tape Tools.

# Hewlett Packard Enterprise - StoreOnce - Windows (Page 1 of 2)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers. See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Windows <sup>3</sup> Direct Attached & SAN Support

Operating Systems	Version
Windows Server 2012 R2 & 2012 x64 (Windows Storage Server 2012 / 2012 R2) <sup>1</sup>	✓
Windows Server 2008 R2 x64 (Windows Storage Server 2008 R2) <sup>2</sup>	sp1
Windows Server 2008 (x86/x64) <sup>4</sup>	sp2

Servers	Supported
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓
HP StoreEasy Storage <sup>1</sup>	✓
HP E5000 G2 Messaging Systems <sup>2</sup>	✓
Third Party	✓

Adapter	Description	Interface	Firmware	FC StorPort Driver	NIC Driver	iSCSI StorPort Driver
630FLB (700065-B21) <sup>3</sup> & 630M (700076-B21) <sup>3</sup>	20GbE HP BladeSystem Converged Network Adapter	PCI-e	7.13.3	7.13.4.0	7.13.4.0	7.13.2.0
650FLB (700763-B21) (PCI-e) & 650M (700767-B21)	20GbE HP BladeSystem Converged Network Adapter	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
CN1000E (AW520A)	10GbE HP Converged Network Adapter	PCI-e				iSCSI support only
CN1000Q (BS668A) <sup>5</sup> & 526FLR (629138-B21) <sup>5</sup>	10GbE HP Converged Network Adapter	PCI-e	4.20.1	9.1.13.0	5.3.30.1001	2.1.6.10
CN1200E (E7Y06A)	10GbE HP Converged Network Adapter	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
556FLR (727060-B21) <sup>3</sup>	10GbE HP Converged Network Adapter	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
CN1100E (BK835A)	10GbE HP Converged Network Adapter	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
554FLR (629142-B21) <sup>5</sup>	10GbE HP Converged Network Adapter	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
CN1100R (QW990A)	10GbE HP Converged Network Adapter	PCI-e	7.13.3	7.13.4.0	7.13.4.0	7.13.2.0
534FLR (700751-B21) <sup>3</sup>	10GbE HP Converged Network Adapter	PCI-e	7.13.3	7.13.4.0	7.13.4.0	7.13.2.0
NC551m (580151-B21) & NC551i	10GbE HP BladeSystem Converged Network Adapters	PCI-e				iSCSI support only
534FLB (700741-B21), 534M (700748-B21) & 536FLB (766490-B21)	10GbE HP BladeSystem Converged Network Adapters	PCI-e	7.13.3	7.13.4.0	7.13.4.0	7.13.2.0
NC553m (613431-B21) <sup>5</sup> , NC553i <sup>5</sup> , 554M (647590-B21) <sup>5</sup> & 554FLB (647586-B21) <sup>5</sup>	10GbE HP BladeSystem Converged Network Adapters	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
SN1100Q (P9D93A & P9D94A) <sup>5</sup>	16Gb HP FC Host Bus Adapter	PCI-e	8.03.05		9.1.17.22	
SN1000Q (QW971A & QW972A) <sup>5</sup>	16Gb HP FC Host Bus Adapter	PCI-e	8.02.00		9.1.17.22	
SN1100E (C8R38A & C8R39A) <sup>5</sup>	16Gb HP FC Host Bus Adapter	PCI-e	10.7.110.31		10.7.110.20	
SN1000E (QR558A/QR559A) <sup>5</sup>	16Gb HP FC Host Bus Adapter	PCI-e	10.7.110.31		10.7.110.20	
LPe1605 (718203-B21) <sup>5</sup>	16Gb HP BladeSystem c-Class FC Host Bus Adapter	PCI-e	10.7.110.31		10.7.110.20	
QMH2672 (710608-B21) <sup>5</sup>	16Gb HP BladeSystem c-Class FC Host Bus Adapter	PCI-e	8.02.00		9.1.17.22	

### Notes:

1. Supports HP StoreEasy: 5530, 3830, 3830 Storage Blade, 1830, 1630, 1530, 1430 and 3Par StoreServ File Controller Storage; HP StoreEasy: 3840, 3840 Storage Blade, 1840, 1640, 1540, 1440 and 3Par StoreServ File Controller v2 Storage; HP StoreEasy 1850, 1650 & 1450.
2. Supports Messaging Systems E5300, E5500, E5700; HP StoreEasy: 5530, 3830, 3830 Storage Blade, 1830, 1630, 1530, 1430; HP StoreEasy: 3840, 3840 Storage Blade, 1840, 1640, 1540, 1440 and HP Network Storage Systems X5520 G2, X3800sb G2 1, X3800 G2, X3400 G2, X3000 G2, X1800 G2.
3. Supported block sizes up to 256K only.
4. Catalyst over Fibre Channel not supported on x86.
5. Not supported with StoreOnce G2 products.
6. There is a potential for network interruption when using Qlogic StorPort driver 9.1.11.16, 9.1.11.20 or 9.1.11.24 during the reboot or FW update of StoreOnce or StoreEver products. It is recommended that the StoreOnce and StoreEver product be disabled or disconnected from the network during reboot or FW update.

# Hewlett Packard Enterprise - StoreOnce - Windows (Page 2 of 2)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers. See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Windows Direct Attached & SAN Support

Operating Systems	Version
Windows Server 2012 R2 & 2012 x64 (Windows Storage Server 2012 / 2012 R2) <sup>1</sup>	✓
Windows Server 2008 R2 x64 (Windows Storage Server 2008 R2) <sup>2</sup>	sp1
Windows Server 2008 (x86/x64) <sup>5</sup>	sp2
Servers	Supported
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓
HP StoreEasy Storage <sup>1</sup>	✓
HP E5000 G2 Messaging Systems <sup>2</sup>	✓
Third Party	✓

Adapter	Description	Interface	Firmware 2012 R2	Firmware 2012	Firmware 2008 & 2008 R2	FC StorPort Driver 2012 R2	FC StorPort Driver 2012	FC StorPort Driver 2008 & 2008 R2
81Q (AK344A) & 82Q (AJ764A) & 84Q (P9D91A)	8Gb HP FC HBAs	PCI-e	8.02.00	8.02.00	8.02.00	9.1.17.22	9.1.17.22	9.1.17.22
QLE2560 <sup>3</sup> & QLE2562 <sup>3</sup> & QLE2564 <sup>3</sup>	8Gb Qlogic FC HBAs	PCI-e	8.02.00	8.02.00	8.02.00	9.1.17.22	9.1.17.22	9.1.17.22
81E (AJ762A/B) & 82E (AJ763A/B) & 84E (E7Y63A)	8Gb HP FC HBAs	PCI-e	2.03x6	2.03x6	2.03x6	10.7.110.20	10.7.110.20	10.7.110.20
LPe12000 <sup>3</sup> & LPe12002 <sup>3</sup> & LPe12004 <sup>3</sup>	8Gb Emulex FC HBAs	PCI-e	2.03x6	2.03x6	2.03x6	10.7.110.20	10.7.110.20	10.7.110.20
81B (AP769A/B) <sup>4</sup> & 82B (AP770A/B) <sup>4</sup>	8Gb HP FC HBAs	PCI-e	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0
815 <sup>3,4</sup> & 825 <sup>3,4</sup>	8Gb Brocade FC HBAs	PCI-e	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0
QMH2572 (651281-B21) & QMH2562 (451871-B21)	8Gb HP BladeSystem c-Class FC HBAs	PCI-e	8.02.00	8.02.00	8.02.00	9.1.17.22	9.1.17.22	9.1.17.22
LPe1205A (659818-B21) & LPe1205 (456972-B21)	8Gb HP BladeSystem c-Class FC HBAs	PCI-e	2.03x6	2.03x6	2.03x6	10.7.110.20	10.7.110.20	10.7.110.20
804 (590647-B21) <sup>4</sup>	8Gb HP BladeSystem c-Class FC HBAs	PCI-e	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0
FC2142SR (A8002A/B) & FC2242SR (A8003A/B)	4Gb HP FC HBAs	PCI-e	2.82x4	2.82x4	2.82x4	10.7.110.20	10.7.110.20	10.7.110.20
LPe1150 <sup>3</sup> & LPe11002 <sup>3</sup>	4Gb Emulex FC HBAs	PCI-e	2.82x4	2.82x4	2.82x4	10.7.110.20	10.7.110.20	10.7.110.20
FC1142SR (AE311A) & FC1242SR (AE312A)	4Gb HP FC HBAs	PCI-e	8.01.02	8.01.02	8.01.02	9.1.17.22	9.1.17.22	9.1.17.22
QLE2460 <sup>3</sup> & QLE2462 <sup>3</sup>	4Gb Qlogic FC HBAs	PCI-e	8.01.02	8.01.02	8.01.02	9.1.17.22	9.1.17.22	9.1.17.22
41B (AP767A/B) <sup>4</sup> & 42B (AP768A/B) <sup>4</sup>	4Gb HP FC HBAs	PCI-e	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1
415 <sup>3,4</sup> & 425 <sup>3,4</sup>	4Gb Brocade FC HBAs	PCI-e	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1
FC2143 (AD167A) & FC2243 (AD168A)	4Gb HP FC HBAs	PCI-X 2.0	2.82x4	2.82x4	2.82x4	10.7.110.20	10.7.110.20	10.7.110.20
LP1150 <sup>3</sup> & LP11002 <sup>3</sup>	4Gb Emulex FC HBAs	PCI-X 2.0	2.82x4	2.82x4	2.82x4	10.7.110.20	10.7.110.20	10.7.110.20
FC1143 (AB429A) & FC1243 (AE369A)	4Gb HP FC HBAs	PCI-X 2.0	8.01.02	8.01.02	8.01.02	9.1.17.22	9.1.17.22	9.1.17.22
QLA2460 <sup>3</sup> & QLA2462 <sup>3</sup>	4Gb QLogic FC HBAs	PCI-X 2.0	8.01.02	8.01.02	8.01.02	9.1.17.22	9.1.17.22	9.1.17.22
LPe1105 (403621-B21)	4Gb HP BladeSystem c-Class FC HBAs	PCI-e	2.82x4	2.82x4	2.82x4	10.7.110.20	10.7.110.20	10.7.110.20
QMH2462 (403619-B21)	4Gb HP BladeSystem c-Class FC HBAs	PCI-e	8.01.02	8.01.02	8.01.02	9.1.17.22	9.1.17.22	9.1.17.22

### Notes:

- Supports HP StoreEasy: 5530, 3830, 3830 Storage Blade, 1830, 1630, 1530, 1430 and 3Par StoreServ File Controller Storage; HP StoreEasy: 3840, 3840 Storage Blade, 1840, 1640, 1540, 1440 and 3Par StoreServ File Controller v2 Storage; HP StoreEasy 1850, 1650 & 1450.
- Supports Messaging Systems E5300, E5500, E5700; HP StoreEasy: 5530, 3830, 3830 Storage Blade, 1830, 1630, 1530, 1430; HP StoreEasy: 3840, 3840 Storage Blade, 1840, 1640, 1540, 1440 and HP Network Storage Systems X5520 G2, X3800sb G2 1, X3800 G2, X3400 G2, X3000 G2, X1800 G2 .
- Third Party adapters require HP drivers and firmware.
- Loop mode is now available on the 81B, 82B, 42B, 41B adapters as of v 3.1.2.0, but has not been verified with StoreOnce VTL.
- Catalyst over Fibre Channel not supported on x86.



# Hewlett Packard Enterprise - StoreOnce - Linux (Converged Network Adapters)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers.

See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Linux Direct Attached & SAN Support

Operating Systems	Version					
RHEL 7 [AS/ES] (x64) <sup>1</sup>	7.2 <sup>5</sup>					
RHEL 6 [AS/ES] (x86/x64) <sup>1</sup>	6.7					
SLES 12 (x64)	12.1					
SLES 11 (x86/x64)	11.4					
Servers	Supported					
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓					
Third Party	✓					
Converged Network Adapters	Description	Interface	FW	FC driver	iSCSI Driver	NIC Driver
630FLB (700065-B21) <sup>2,4</sup> & 630M (700076-B21) <sup>2,4</sup>	20GbE HP BladeSystem CNAs	PCI-e	7.13.3	7.13.04-1	2.11.4.0-2 RHEL 6: 10.7.110.20-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.20-1	7.13.04.1 RHEL 6: 10.7.110.29-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.29-1
650FLB (700763-B21) <sup>4</sup> & 650M (700767-B21) <sup>4</sup>	20GbE HP BladeSystem CNAs	PCI-e	10.7.110.34	10.7.110.34	SLES 12: 10.7.110.34-1	ELS 12: 10.7.110.34-1
CN1000E (AW520A)	10 GbE HP CNA	PCI-e			iSCSI support only	
CN1000Q (BS668A) <sup>4</sup> & 526FLR (629138-B21) <sup>4</sup>	10 GbE HP CNAs		4.20.1 <sup>3</sup>	RHEL 6: 8.07.00.34.06.0-k1 RHEL 7: 8.07.00.34.07.0-k1 SLES 11: 8.07.00.34.11.3-k SLES 12: 8.07.00.29.34.0-k	5.04.01.12.00.00-2	RHEL 6: 5.3.62.1-5 RHEL 7: 5.3.62.1-2 SLES 11: 5.3.62.1-5 SLES 12: 5.3.62.1-2(B)
CN1200E (E7Y06A) <sup>4</sup> & 556FLR (FlexibleLOM, 727060-B21) <sup>4</sup>	10 GbE HP CNAs		10.7.110.34	10.7.110.34	RHEL 6: 10.7.110.20-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.20-1 SLES 12: 10.7.110.34-1	RHEL 6: 10.7.110.29-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.29-1 ELS 12: 10.7.110.34-1
CN1100E (BK835A) <sup>4</sup> & 554FLR (629142-B21) <sup>4</sup>	10 GbE HP CNAs		10.7.110.34	10.7.110.34	RHEL 6: 10.7.110.20-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.20-1 SLES 12: 10.7.110.34-1	RHEL 6: 10.7.110.29-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.29-1 ELS 12: 10.7.110.34-1
CN1100R (QW990A) <sup>2</sup> & 534FLR (700751-B21) <sup>2</sup>	10 GbE HP CNAs		7.13.3	7.13.04-1	2.11.4.0-2	7.13.04.1
NC551m (580151-B21) <sup>4</sup> & NC551i <sup>4</sup>	10 GbE HP BladeSystem CNAs	PCI-e			iSCSI support only	
NC553m (613431-B21) <sup>4</sup> & NC553i <sup>4</sup> & 554M (647590-B21) <sup>4</sup> & 554FLB <sup>4</sup> & (647586-B21) <sup>4</sup> & 556FLR (727060-B21) <sup>4</sup>	10 GbE HP BladeSystem CNAs	PCI-e	10.7.110.34	10.7.110.34	RHEL 6: 10.7.110.20-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.20-1 SLES 12: 10.7.110.34-1	RHEL 6: 10.7.110.29-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.29-1 ELS 12: 10.7.110.34-1
534FLB (700741-B21) <sup>2,4</sup> & 534M (700748-B21) <sup>2,4</sup> & 536FLB (766490-B21) <sup>2,4</sup>	10 GbE HP BladeSystem CNAs		7.13.3	7.13.04-1	2.11.4.0-2	7.13.04.1

### Notes:

1. RHEL kernel versions include support for Oracle Enterprise Linux (OEL) with Red-Compatible Kernel (RHCK).
2. Supported block sizes up to 256K only.
3. Minimum FW required for FCoE support.
4. StoreOnce Catalyst over Fibre Channel requires system software with 3.13.x or later with SLES 11.3 & SLES 12.
5. SCSI generic (sg) driver may not load automatically on boot. If this happens issuing the modprob sg command will create the sg & st device files.

# Hewlett Packard Enterprise - StoreOnce - Linux (Fibre Channel Adapters)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers.

See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Linux Direct Attached & SAN Support

Operating Systems		Version
RHEL 7 [AS/ES] (x64) <sup>1</sup>		7.2 <sup>4</sup>
RHEL 6 [AS/ES] (x86/x64) <sup>1</sup>		6.7
SLES 12 (x64)		12.1
SLES 11 (x86/x64)		11.4

  

Servers	Supported
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓
HP Integrity Superdome X (BL920s Gen9 Only)	✓
Third Party	✓

  

FC Host Bus Adapters (Part Number)	Description	Interface	Firmware	RHEL 7 Driver	RHEL 6 Driver	SLES 12 Driver	SLES 11 Driver
SN1100Q (P9D93A & P9D94A)	16Gb HP FC HBAs	PCI-e	8.03.05	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k1	8.07.00.34.11.3-k
SN1000Q (QW971A & QW972A)	16Gb HP FC HBAs	PCI-e	8.02.00	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k1	8.07.00.34.11.3-k
SN1000E (QR558A/QR559A)	16Gb HP FC HBAs	PCI-e	10.7.110.31	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
SN1100E (C8R38A & C8R39A)	16Gb HP FC HBAs	PCI-e	10.7.110.31	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
LPe1605 (718203-B21)	16Gb HP BladeSystem c-Class FC HBAs	PCI-e	10.7.110.31	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
QMH2672 (710608-B21)	16Gb HP BladeSystem c-Class FC HBAs	PCI-e	8.02.00	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k1	8.07.00.34.11.3-k
81Q (AK344A) & 82Q (AJ764A) & 84Q (P9D91A)	8Gb HP FC HBAs	PCI-e	8.02.00	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k1	8.07.00.34.11.3-k
QLE2560 <sup>3</sup> & QLE2562 <sup>3</sup> & QLE2564 <sup>3</sup>	8Gb QLogic FC HBAs	PCI-e	8.02.00	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k1	8.07.00.34.11.3-k
81E (AJ762A/B) & 82E (AJ763A/B) & 84E (E7Y63A)	8Gb HP FC HBAs	PCI-e	2.03x6	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
LPe12000 <sup>3</sup> & LPe12002 <sup>3</sup> & LPe12004 <sup>3</sup>	8Gb Emulex FC HBAs	PCI-e	2.03x6	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
81B (AP769A/B) <sup>2</sup> & 82B (AP770A/B) <sup>2</sup>	8Gb HP FC HBAs	PCI-e	3.2.5.0 (SLES 11.3: 3.2.1.0)	RHEL 7.0: 3.2.5.0	3.2.5.0	3.2.5.0	SLES 11.3: 3.2.1.0
815 <sup>2,3</sup> & 825 <sup>2,3</sup>	8Gb Brocade FC HBAs	PCI-e	3.2.5.0 (SLES 11.3: 3.2.1.0)	RHEL 7.0: 3.2.5.0	3.2.5.0	3.2.5.0	SLES 11.3: 3.2.1.0
QMH2572 (651281-B21) & QMH2562 (451871-B21)	8Gb HP BladeSystem c-Class FC HBAs	PCI-e	8.02.00	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k	8.07.00.34.11.3-k
LPe1205A (659818-B21)	8Gb HP BladeSystem c-Class FC HBA	PCI-e	2.03x6	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
LPe1205 (456972-B21)	8Gb HP BladeSystem c-Class FC HBA	PCI-e	2.03x6	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
804 (590647-B21) <sup>2</sup>	8Gb HP BladeSystem c-Class FC HBA	PCI-e	3.2.5.0 (SLES 11.3: 3.2.1.0)	RHEL 7.0: 3.2.5.0	3.2.5.0	3.2.5.0	SLES 11.3: 3.2.1.0

### Notes:

1. RHEL kernel versions include support for Oracle Enterprise Linux (OEL) with Red-Compatible Kernel (RHCK).
2. Loop mode is now available on the 81B, 82B, 42B, 41B adapters as of v 3.1.2.0, but has not been verified with StoreOnce VTL.
3. Third Party adapters require HPE drivers and firmware.
4. SCSI generic (sg) driver may not load automatically on boot. If this happens issuing the modprob sg command will create the sg & st device files.

# Hewlett Packard Enterprise - StoreOnce - Linux (Fibre Channel Network Adapters)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers.

See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Linux Direct Attached & SAN Support

Operating Systems	Version
RHEL 7 [AS/ES] (x64) <sup>1</sup>	7.2 <sup>2</sup>
RHEL 6 [AS/ES] (x86/x64) <sup>1</sup>	6.7
SLES 12 (x64)	12.1
SLES 11 (x86/x64)	11.4

Servers	Supported
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓
Third Party	✓

FC Host Bus Adapters (Part Number)	Description	Interface	Firmware	RHEL 7 Driver	RHEL 6 Driver	SLES 12 Driver	SLES 11 Driver
FC1142SR (AE311A) & FC1242SR (AE312A)	4Gb HP FC HBAs	PCI-e	8.01.02		8.07.00.34.06.0-k1		8.07.00.34.11.3-k
QLE2460 <sup>3</sup> & QLE2462 <sup>3</sup>	4Gb QLogic FC HBAs	PCI-e	8.01.02		8.07.00.34.06.0-k1		8.07.00.34.11.3-k
FC2142SR (A8002A) & FC2242SR (A8003A)	4Gb HP FC HBAs	PCI-e	2.82x4		10.7.110.34		10.7.110.34
LPe1150 <sup>3</sup> & LPe11002 <sup>3</sup>	4Gb Emulex FC HBAs	PCI-e	2.82x4		10.7.110.34		10.7.110.34
41B (AP767A/B) <sup>4</sup> & 42B (AP768A/B) <sup>4</sup>	4Gb HP FC HBAs	PCI-e	3.2.1.0		3.2.1.0		3.2.1.0
415 <sup>3,4</sup> & 425 <sup>3,4</sup>	4Gb Brocade FC HBAs	PCI-e	3.2.1.0		3.2.1.0		3.2.1.0
FC1143 (AB429A) & FC1243 (AE369A)	4Gb HP FC HBAs	PCI-X 2.0	8.01.02		8.07.00.34.06.0-k1		8.07.00.34.11.3-k
QLA2460 <sup>3</sup> & QLA2462 <sup>3</sup>	4Gb QLogic FC HBAs	PCI-X 2.0	8.01.02		8.07.00.34.06.0-k1		8.07.00.34.11.3-k
FC2143 (AD167A) & FC2243 (AD168A)	4Gb HP FC HBAs	PCI-X 2.0	2.82x4		10.7.110.34		10.7.110.34
LP1150 <sup>3</sup> & LP11002 <sup>3</sup>	4Gb Emulex FC HBAs	PCI-X 2.0	2.82x4		10.7.110.34		10.7.110.34
LPe1105 (403621-B21)	4Gb HP BladeSystem c-Class FC HBA	PCI-e	2.82x4		10.5.152.1		10.5.158.0
QMH2462 (403619-B21)	4Gb HP BladeSystem c-Class FC HBA	PCI-e	8.01.02		8.07.00.34.06.0-k1		8.07.00.34.11.3-k

### Notes:

1. RHEL kernel versions include support for Oracle Enterprise Linux (OEL) with Red-Compatible Kernel (RHCK).
2. SCSI generic (sg) driver may not load automatically on boot. If this happens issuing the modprob sg command will create the sg & st device files.
3. Third Party adapters require HPE drivers and firmware.
4. Loop mode is now available on the 81B, 82B, 42B, 41B adapters as of v 3.1.2.0, but has not been verified with StoreOnce VTL.

# Hewlett Packard Enterprise - StoreOnce - Solaris

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details.  
See the [HPE Servers Support & Certification Matrices](#) website for server / operating systems support details.

## Solaris Direct Attached & SAN Support

### Operating Systems

	Version
Solaris 11 (x64)	Update 2
Solaris 11 SPARC	Update 2
Solaris 10 (x86/x64) <sup>4</sup>	Update 11
Solaris 10 SPARC	Update 11

### Servers

	Supported
Oracle SPARC	✓
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓

Adapter Name (Part number)	Description	Interface	Firmware	Driver
CN1000E (AW520A)	10GbE HP Converged Network Adapters <sup>2,9</sup>	PCI-e	iSCSI support only	
CN1100E (BK835A)	10GbE HP Converged Network Adapters <sup>2,6</sup>	PCI-e	iSCSI support only	
NC551m (580151-B21) & NC551i	10GbE HP BladeSystem Converged Network Adapters <sup>2,6</sup>	PCI-e	iSCSI support only	
NC553m (613431-B21) / NC553i / 554FLR (629142-B21) / 554M (647590-B21) / 554FLB (647586-B21)	10GbE HP BladeSystem Converged Network Adapters <sup>2,6</sup>	PCI-e	iSCSI support only	
SG-XPCIE1FC-EM8-Z / SG-XPCIE2FC-EM8-Z & Emulex LPe12000 / LPe12002 & 81E (AJ762A & AJ762B) / 82E (AJ763A & AJ763B)	8Gb Fibre Channel Host Bus Adapters <sup>2</sup>	PCI-e	1.1.60.1	2.90.15.0
SG-XPCIE1FC-QF8-Z / SG-XPCIE2FC-QF8-Z & QLogic QLE2560 / QLE2562 & 81Q (AK344A) / 82Q (AJ764A)	8Gb Fibre Channel Host Bus Adapters <sup>2</sup>	PCI-e	6.06.03	20140211-5.00
SG-XPCIE1FC-EM4 / SG-XPCIE2FC-EM4 & Emulex LPe11000 / LPe11002 & FC2142SR (A8002A) & FC2242SR (A8003A) <sup>5</sup>	4Gb Fibre Channel Host Bus Adapters <sup>2,5</sup>	PCI-e		Native
NC551m (580151-B21) & NC551i	4Gb Fibre Channel Host Bus Adapters <sup>2</sup>	PCI-e		Native
SG-XPCI1FC-EM4-Z / SG-XPCI2FC-EM4-Z & Emulex LP11000 / LP11002 & FC2143 (AD167A) & FC2243 (AD168A)	4Gb Fibre Channel Host Bus Adapters <sup>2,5</sup>	PCI-X 2.0		Native
SG-XPCI1FC-QF4 / SG-XPCI2FC-QF4 & QLogic QLA2460 / QLA2462 & FC1143 (AB429A) & FC1243 (AE369A)	4Gb Fibre Channel Host Bus Adapters <sup>2</sup>	PCI-X 2.0		Native
SG-XPCIE2FCGBE-E-Z	4Gb Fibre Channel Host Bus Adapters <sup>1,2</sup>	PCI-e		Native
LPe1105 (403621-B21)	4Gb HP BladeSystem c-Class Fibre Channel HBA <sup>2,3</sup>	PCI-e		Native
QMH2462 (403619-B21)	4Gb HP BladeSystem c-Class Fibre Channel HBA <sup>2,3</sup>	PCI-e		Native

#### Notes:

1. Supported with Solaris 10 on Oracle Sun Blade platform only.
2. HP branded HBAs supported on ProLiant only.
3. Supported with Solaris 10 x86/x64 only.
4. Supported with Solaris 10 x64 only. (AMD64 and Intel EM64T)
5. Supported with Solaris 10.x only.
6. StoreOnce Catalyst over Fibre Channel not supported.

# Hewlett Packard Enterprise - StoreOnce - AIX, IBM i, PowerVM Support

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details.  
Consult IBM's [System Storage Interoperation Center](#) to verify adapter support for specific servers.

## AIX (Power) Direct Attached & SAN Support

Operating Systems	Version
AIX <sup>1</sup>	V6.1.9, V7.1.3 and higher (Minimum Atape Driver: 12.8.9.0)
IBM i <sup>2, 5, 6</sup>	V6R1M1, V7R1M0, V7R2M0
PowerVM	V2.2.3.2 and higher

Servers	Supported
IBM Power 6, 7, 8 Servers	✓

Adapter	Description	Interface	Supported Operating Systems	AIX Microcode (FW)
IBM EN0H <sup>4</sup> & EN0J <sup>4</sup>	10GbE IBM CNAs	PCI-e2	AIX	00010000020025201913
IBM 5708 <sup>4</sup>	10GbE IBM CNA	PCI-e2	AIX	020117
IBM EN0A & EN0B	16Gb IBM Single & Dual Port HBAs	PCI-e2	PowerVM, AIX, IBM i	00010000020025201905
IBM EN0Y	8Gb IBM Quad Port HBA	PCI-e2	PowerVM, AIX, IBM i	0320080200
IBM 5729, 5273 & 5735	8Gb IBM Single, Dual & Quad Port HBAs	PCI-e2	PowerVM, AIX, IBM i	203305
IBM 5773 & 5774	4Gb IBM Single & Dual Port HBAs	PCI-e	PowerVM, AIX, IBM i	271315
IBM 1905 & 5758	4Gb IBM HBAs	PCI-X 2.0	PowerVM, AIX, IBM i	271304
IBM 5759	4Gb IBM HBA	PCI-X 2.0	PowerVM, AIX, IBM i	271310

### Notes:

1. DataProtector: Robot control is not supported for Physical or Virtual HP Tape Devices, or StoreOnce IBM Tape VTL devices.
2. Only IOPLESS or SMART HBAs are supported
3. Refer to IBM's [System Storage Interoperation Center](#) to verify adapter support for specific servers.
4. StoreOnce Catalyst over Fibre Channel not supported.
5. All latest PTFs applied for IBM LTO-5 support
6. Supported with Fibre Channel Only

# Hewlett Packard Enterprise - StoreOnce - Storage Networking

## StoreFabric SAN Switches <sup>1, 3, 10</sup>

B-series <sup>4</sup>	Firmware Streams
HP SN8000B SAN Director Switch, SN6500B, SN6000B & SN3000B Fibre Channel Switch	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1
HP StoreFabric SN4000B	7.4.1c, 7.3.2
HP Encryption SAN Switch and FS8-18 FC Blade	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1
HP DC SAN Backbone Director, HP DC04 SAN Director	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
HP SAN Director 4/256	6.4.3h, 6.3.2d
HP 8/8, 8/24, 8/40, 8/80 SAN Switches	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
Brocade 8Gb SAN Switch for HP BladeSystem c-Class (8/12c and 8/24c)	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
Brocade 16Gb SAN Switch for HP BladeSystem c-Class	7.4.1c, 7.3.2, 7.2.1c1
Brocade 8Gb embedded SAN Switch for EVA4400	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
C-series	Firmware Streams
HP SN8500C Director, HP C-Series Family (MDS 9710) <sup>8</sup>	6.2(15)
HP SN8000C Directors, HP C-series Family (MDS 9506/ MDS 9509/ MDS 9513)	6.2(15), 5.2(8g), 4.2(9)
HP StoreFabric SN6010C 12-port/48-port 16Gb Fibre Channel Switch (MDS9148S)	6.2(15)
HP SN6000C 8Gb Fibre Channel Switch (MDS 9148)	6.2(15), 5.2(8g)
HP C-series Nexus 50x0 Converged Network Switch	5.2(1)N1(9)
Cisco Nexus 5548UP / 5596UP Converged Network Switch	7.3(0)N1(1), 6.0(2)N2(7), 5.2(1)N1(9)
Cisco MDS 9124, 9124e, 9134	5.2(8g), 4.2(9)
Cisco MDS 9222i, 9506, 9509, 9513	6.2(15), 5.2(8g), 4.2(9)
Cisco MDS 8Gb Fabric Switch for HP BladeSystem c-Class	6.2(15), 5.2(8g)
H-series <sup>9</sup>	Firmware
HP SN6000 Stackable Fibre Channel Switch <sup>6</sup>	8.0.14.19.00
HP 8/20q Fibre Channel Switch <sup>6</sup>	8.0.14.19.00
Multi-Protocol Routers, Gateways, and Virtual Connect <sup>1</sup> (All Series)	Firmware Streams
HP StoreFabric SN6500C 16Gb FC/FCIP/FCoE Multi-service Switch <sup>8, 9</sup>	6.2(15)
HP FlexFabric 5930 Switch Series	Version 7.1.045 Release: R2422P01
HP FlexFabric 5900CP Switch	Version 7.1.045 Release: R2422P01
HP Virtual Connect FlexFabric 20/40 F8 Module for c-class Blade System <sup>9, 11</sup>	4.45
HP Virtual Connect FlexFabric 10Gb/24-Port Module for c-Class BladeSystem <sup>11</sup>	4.45
HP Virtual Connect FlexFabric 10Gb/24 Enterprise Edition for Class Systems <sup>11</sup>	4.45
HP 2408 FCoE Converged Network Switch	7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
HP 1606 Extension SAN Switch <sup>2, 9</sup> and DC SAN Director Switch Multiprotocol Ext. Blade <sup>2, 9</sup>	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
HP 16Gb 24-port Virtual Connect FC Module for c-Class BladeSystem <sup>11</sup>	4.45
HP 8Gb 24-Port Virtual Connect FC Module (VC-FC) <sup>11</sup>	4.45
HP 4Gb/8Gb 20 Port Virtual Connect FC Module (VC-FC) <sup>11</sup>	4.45
HP Multi-Protocol Router Blade <sup>5, 7, 9</sup>	6.4.3h, 6.3.2d
Brocade VDX6740	7.0.0a, 6.02a, 5.0.2b, 5.0.1d

### Notes:

1. Refer to HPE SAN Design Reference Guide for more configuration details
2. Tape Pipelining supported
3. Recommended minimum versions for various supported code streams.
4. Access Gateway (AG) mode supported. See SPOCK for detailed support information.
5. Tape Pipelining not supported.
6. Platform support is restricted. Please reference the switches' QuickSpec on '[hpe.com/info/qs](http://hpe.com/info/qs)' for supported operating systems and host bus adapters.
7. Supported for FC-IP SAN-to-SAN interconnect only.
8. StoreOnce requires version 3.11.1 or later system software
9. StoreOnce Catalyst over Fibre Channel not supported.
10. HPE StoreOnce Systems (including Catalyst targets) support both switched fabric (recommended) or direct attach private loop topologies on single-node StoreOnce appliances only. Switched Fabric only on multi-node.
11. For Tape support on Virtual Connect switches, an external switch is required.

# Hewlett Packard Enterprise - StoreOnce - Virtual Machine Support

VM Data Protection Partners	HPE Data Protector	Arcserve Backup	Commvault Simpana	EMC NetWorker	IBM Spectrum Protect (TSM)	Veritas Backup Exec	Veritas NetBackup
For detailed support see Partner support websites	<a href="#">Virtualization Support Matrix</a>	<a href="#">Compatibility Matrix</a>	<a href="#">VMware Compatibility Hyper-V Compatibility</a>	<a href="#">Software Compatibility Guide</a>	<a href="#">Support for Virtual Machines</a>	<a href="#">Software Compatibility</a>	<a href="#">Virtual Environments</a>

## Virtual Machine connectivity to Disk (StoreOnce Catalyst/VTL/NAS) backup targets

VM Product	StoreOnce VTL	StoreOnce iSCSI VTL	StoreOnce Catalyst over Ethernet (CoE)	StoreOnce Catalyst over Fibre Channel (CoFC)	StoreOnce NAS	Support Notes
Citrix XenServer Host	No	No	No	No	No	No support statement for VTL tape devices at this time.
Citrix XenServer Guest VM	No	Yes	Yes	No	Yes	For iSCSI VTL tape devices the iSCSI software initiator must run in the VM operating system. StoreOnce SAN shares must be accessed directly in the VM operating system, not attached through the hypervisor.
HPVM Host	Yes	Yes	Yes	No	Yes	VTL tape drive/media changer must not be attached to a guest VM while being used by the host.
HPVM Guest VM	Yes	Yes	Yes	No	Yes	VTL tape drive/media changer must only be attached to a single guest VM at a time.
Hyper-V Host	Yes	Yes	Yes	No	Yes	
Hyper-V Guest VM	No	Yes	Yes	No	Yes	For iSCSI VTL tape devices and iSCSI VTL media changer devices, the iSCSI software initiator must run in the VM OS. StoreOnce NAS shares must be accessed directly in the VM OS, not attached through the hypervisor.
VMware ESXi Host	No <sup>1</sup>	No <sup>1</sup>	No	No	No	HPE does not test or validate direct attached SCSI VTL tape devices on VMware ESX/ESXi hosts and does not provide support for VTL tape drives and VTL tape libraries in such configurations. <a href="#">For ESX 4.1 Server tape support see ESX 4.1 Fibre Channel SAN Configuration Guide.</a> <a href="#">For ESX 5.0 Server tape support see the ESXi 5.0 vSphere Storage Guide.</a> <a href="#">For ESX 5.1 Server tape support see the ESXi 5.1 vSphere Storage Guide.</a> <a href="#">For ESX 5.5 Server tape support see the ESXi 5.5 vSphere Storage Guide</a> <a href="#">For ESX 6.0 Server tape support see the ESXi 6.0 vSphere Storage Guide</a>
VMware Guest VM	No	Yes	Yes	No <sup>2</sup>	Yes	For iSCSI VTL tape devices and iSCSI VTL media changer devices, the iSCSI software initiator must run in the VM OS. StoreOnce NAS shares must be accessed directly in the VM OS, not attached through the hypervisor. HPE does not test or validate direct attached SCSI VTL tape devices on VMware guest VMs and does not provide support for VTL tape drives and VTL tape libraries in such configurations.

Notes:

1. SAN tape devices (FC and iSCSI) are not supported directly by VMware ESXi host. vStorage API for Data Protection use a backup server and virtual machine software snapshots to allow FC and iSCSI backups.
2. Yes, when using HPE Recovery Manager Central (RMC) only.

# Hewlett Packard Enterprise - StoreEver Tape

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This section includes the following:

- StoreEver Standalone Tape Drives
- StoreEver Tape Library Systems
- StoreEver OS, HBA, Switch Support
- StoreEver Virtual Machine Support



# Hewlett Packard Enterprise - StoreEver Standalone Tape Drives

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This section includes the following:

- StoreEver Standalone Tape Drive Firmware & Windows drivers versions
- StoreEver Standalone Tape - DAS Partner Support
- StoreEver Standalone Tape - Native App Tape Support
- StoreEver Standalone Tape - DAS Appliance Support
- StoreEver Standalone Server Tape Support
- StoreEver Standalone Tape Cables
- StoreEver Standalone Tape Rack-mount Kits Support

# Hewlett Packard Enterprise - StoreEver Standalone Tape Drive firmware and drivers

## Supported Ultrium LTO Tape Drives <sup>4</sup>

Ultrium LTO Tape Drives <sup>1</sup>	Description	Firmware <sup>2</sup>
LTO-7 Ultrium 15000	(LTO-7 HH SAS)	G341
LTO-6 Ultrium 6650	(LTO-6 FH SAS)	O5DD
LTO-6 Ultrium 6250	(LTO-6 HH SAS)	35BD
LTO-5 Ultrium 3280	(LTO-5 FH SAS)	X6ED
LTO-5 Ultrium 3000	(LTO-5 HH SAS)	Z6ED
LTO-4 Ultrium 1840	(LTO-4 FH SAS)	A63D
LTO-4 Ultrium 1760	(LTO-4 HH SAS)	U64D
LTO-3 Ultrium 920	(LTO-3 HH SAS)	Q51D / C26D <sup>2</sup>

HP Ultrium LTO Tape Blades <sup>1</sup>	Description	Firmware <sup>2</sup>
LTO-5 Ultrium SB3000c	(LTO-5 HH SAS)	Z64D
LTO-4 Ultrium SB1760c	(LTO-4 HH SAS)	U64D

## Microsoft Windows Drivers for Tape Drives

Operating System	Server Platform	Driver version <sup>3</sup>
2012 R2	x64	1.0.9.1
2012	x64	1.0.9.1
2008 R2	x64	1.0.9.1
2008	x64	1.0.7.2
2008	x86	1.0.7.2

### Notes

1. LTO Media type and compatibility details can be found under "[Product Highlights](#)".
2. Refer to [Library and Tape Tools](#) or [HPE Drivers & Downloads](#) to download correct FW and driver versions for tape drives.
3. LTO-7 Supported with 1.0.9.1 or later
4. Support applies to HP & HPE branded drives.

# Hewlett Packard Enterprise - StoreEver Standalone Tape Drives - Software Partner Support (1 of 2)

IMPORTANT: Consult the software vendor's compatibility lists to confirm software versions and specific device support.

Hyperlinks provided on [ISV Compatibility Links](#) page.

## Software Partner Support for SAS Connectivity

	Latest Tested Version	HPE LTO-7 Ultrium 15000 (Minimum ISV Version)	HP LTO-6 Ultrium 6650	HP LTO-6 Ultrium 6250	HP LTO-5 Ultrium 3280	HP LTO-5 Ultrium 3000	HP LTO-5 Ultrium SB3000c Tape Blade
		LTO-7 HH SAS	LTO-6 FH SAS	LTO-6 HH SAS	LTO-5 FH SAS	LTO-5 HH SAS	LTO-5 HH SAS
<b>HPE Data Protector</b>	9.x	✓ ( 8.15 & 9.05 )	✓	✓	✓	✓	✓
<b>HPE VM Explorer</b>	6.1						
<b>Arcserve Backup</b>	v17	✓ (v17)	✓	✓	✓	✓	✓
<b>Acronis Advanced Backup</b>	11.x		✓	✓	✓	✓	✓
<b>Archiware P5</b>	5.x		✓	✓	✓	✓	✓
<b>ASG Time Navigator</b>	4.x	✓ (v4.4 SP2)	✓	✓	✓	✓	✓
<b>Barracuda Yosemite Server Backup</b>	10.x	✓ (10.5)	✓	✓	✓	✓	✓
<b>BridgeHead HDM Suite</b>	15a	✓ (15A)	✓	✓	✓	✓	✓
<b>Catalytic DPX (SyncSort DPX)</b>	4.x		✓	✓	✓	✓	✓
<b>Commvault Simpana</b>	11.x	✓ (10.11)	✓	✓	✓	✓	✓
<b>Dell NetVault</b>	11.x.x	✓ (11.0)	✓	✓	✓	✓	✓
<b>EMC NetWorker</b>	9.0	✓ (9.0.0.2 & 8.2.2.3)	✓	✓	✓	✓	✓
<b>ETI-NET</b>							
<b>Front Porch Digital DIVArchive</b>	7.x		✓	✓	✓	✓	
<b>IBM Spectrum Protect (TSM)</b>	7.1.x	✓ (7.1.3)	✓	✓	✓	✓	✓
<b>Interica IDS, PARS</b>					✓	✓	
<b>MDA Archive Management System</b>							
<b>Microsoft System Center DPM</b>	2012 & R2	✓	✓	✓	✓	✓	
<b>Oracle Secure Backup</b>	10.x		✓	✓	✓	✓	✓
<b>QStar Archive Manager</b>	6.x	✓ (6.12)	✓	✓	✓	✓	✓
<b>Quantum StorNext</b>	4.7.x						
<b>Retrospect</b>	11.x Win, 13.x OS X	✓ (Win. 10.5, Mac 12.5)	✓	✓	✓	✓	✓
<b>Seven10 StorFirst</b>	4.8.x		✓	✓	✓	✓	✓
<b>SGL StorHouse (FileTek)</b>			✓	✓	✓	✓	✓
<b>SGL FlashNet</b>	6.6.x	✓ (6.4.x)	✓	✓	✓	✓	✓
<b>SoleraTec Phoenix</b>	v6.5.3	✓ (v6.5.3)	✓	✓	✓	✓	✓
<b>StorageDNA DNA Evolution</b>			✓	✓	✓	✓	
<b>TOLIS BRU Server</b>	2.0.x	✓ (2.0.3)	✓	✓	✓	✓	✓
<b>TOLIS BRU Producer's Edition</b>	3.1.x	✓ (3.1.16)	✓	✓	✓	✓	✓
<b>Veeam Backup &amp; Replication</b>	v9	✓ (v9)	✓	✓	✓	✓	✓
<b>Veritas Backup Exec</b>	15	✓ (v15 FP1)	✓	✓	✓	✓	✓
<b>Veritas NetBackup</b>	7.7.x	✓ (v7.5)	✓	✓	✓	✓	✓
<b>XenData Archive Series</b>			✓	✓	✓	✓	✓
<b>Yoyotta YoyottaID</b>	2.2	✓	✓	✓	✓	✓	✓

Key:  
 ✓ Supported  
 ✓x Supported in conjunction with note x

Notes:  
 1. Not supported with ATTO Multipath Driver

# Hewlett Packard Enterprise - StoreEver Standalone Tape Drives - Software Partner Support (2 of 2)

IMPORTANT: Consult the software vendor's compatibility lists to confirm software versions and specific device support.

Hyperlinks provided on [ISV Compatibility Links](#) page.

## Software Partner Support for SAS Connectivity

	Latest Tested Version	HP LTO-4 Ultrium 1840	HP LTO-4 Ultrium 1760	HP LTO-3 Ultrium 920	HP LTO-4 Ultrium SB1760c Tape Blade
		LTO-4 FH SAS	LTO-4 HH SAS	LTO-3 HH SAS	LTO-4 HH SAS
HPE Data Protector	9.x	✓	✓	✓	✓
HPE VM Explorer	6.1			✓	
Arcserve Backup	v17	✓	✓	✓	✓
Acronis Advanced Backup	11.x				
Archiware P5	5.x	✓	✓	✓	✓
ASG Time Navigator	4.x	✓	✓	✓	✓
Barracuda Yosemite Server Backup	10.x	✓	✓	✓	✓
BridgeHead HDM Suite	15a	✓	✓	✓	✓
Catalogic DPX (SyncSort DPX)	4.x	✓	✓	✓	✓
Commvault Simpana	11.x	✓	✓	✓	✓
Dell NetVault	11.x.x	✓	✓	✓	✓
EMC NetWorker	9.0	✓	✓	✓	✓
ETI-NET		✓	✓		
Front Porch Digital DIVArchive	7.x	✓	✓	✓	
IBM Spectrum Protect (TSM)	7.1.x	✓	✓	✓	✓
Interica IDS, PARS		✓	✓	✓	
MDA Archive Management System					
Microsoft System Center DPM	2012 & R2	✓	✓	✓	
Oracle Secure Backup	10.x	✓	✓	✓	✓
QStar Archive Manager	6.x	✓	✓	✓	✓
Quantum StorNext	4.7.x	✓	✓		
Retrospect	11.x Win, 13.x OS X	✓	✓	✓	✓
Seven10 StorFirst	4.8.x	✓	✓	✓	✓
SGL StorHouse (FileTek)		✓	✓	✓	✓
SGL FlashNet	6.6.x	✓	✓	✓	✓
SoleraTec Phoenix	v6.5.3				
StorageDNA DNA Evolution					
TOLIS BRU Server	2.0.x	✓	✓	✓	✓
TOLIS Producer's Edition	3.1.x	✓	✓	✓	✓
Veeam Backup & Replication	v9	✓	✓	✓	✓
Veritas Backup Exec	15	✓	✓	✓	✓
Veritas NetBackup	7.7.x	✓	✓	✓	✓
XenData Archive Series		✓	✓		✓
Yoyotta YoyottaID <sup>16</sup>	2.2				

Key:  
 ✓ Supported  
 ✓x Supported in conjunction with note x

Notes:  
 1. Not supported with ATTO Multipath Driver

# Hewlett Packard Enterprise - StoreEver Tape - Native Backup Support

Operating System / Native Backup Utility (Note: HP StoreEver Tape only)

	Windows Backup	TAR	CPIO	DD
Windows Server 2012 R2 (x64)	N/A			
Windows Server 2012 (x64)	N/A			
Windows Server 2008 R2 (x64)	✓			
Windows Server 2008 (x64)	✓			
Windows Server 2008 (x86)	✓			
RHEL 7.x (x64)		✓	✓	✓
RHEL 6.x (x64)		✓	✓	✓
RHEL 6.x (x86)		✓	✓	✓
SLES 12 (x64)		✓	✓	✓
SLES 11 (x64)		✓	✓	✓
SLES 11 (x86)		✓	✓	✓
HP-UX 11iv3 (11.31) (Integrity)		✓	✓	✓
Solaris 11 (x64)		✓	✓	✓
Solaris 11 (x86)		✓	✓	✓
Solaris 11 (SPARC)		✓	✓	✓
Solaris 10 (SPARC)		✓	✓	✓
AIX 7.1 (Power) <sup>1</sup>		✓	✓	✓
AIX 6.1 (Power) <sup>1</sup>		✓	✓	✓
<b>HP NonStop</b>				

Key:  
 ✓ Supported

Notes:  
 1. Atape Driver version 12.10.7.0 is the minimum level required for HPE Ultrium LTO-7 support on IBM AIX. This version supports Single-Path tape library operations only.

# Hewlett Packard Enterprise - StoreEver Standalone Tape Drives - Storage Appliance Partner Support

IMPORTANT: Consult the Appliance vendor's compatibility lists to confirm versions and specific device support.  
Hyperlinks provided on [ISV Compatibility Links](#) page.

## Storage Appliance Partner Support for SAS Connectivity

		HPE LTO-7 Ultrium 15000	HP LTO-6 Ultrium 6650	HP LTO-6 Ultrium 6250	HP LTO-5 Ultrium 3280	HP LTO-5 Ultrium 3000	HP LTO-4 Ultrium 1840	HP LTO-4 Ultrium 1760	HP LTO-3 Ultrium 920	HP LTO-5 Ultrium SB3000c Tape Blade	HP LTO-4 Ultrium SB1760c Tape Blade
Latest Tested Version		LTO-7 HH SAS	LTO-6 FH SAS	LTO-6 HH SAS	LTO-5 FH SAS	LTO-5 HH SAS	LTO-4 FH SAS	LTO-4 HH SAS	LTO-3 HH SAS	LTO-5 HH SAS	LTO-4 HH SAS
HP NonStop Servers					✓ <sup>1</sup>	✓ <sup>1</sup>					
Cache-A ProCache Appl.			✓	✓	✓	✓					
Cache-A PowerCache Appl.			✓	✓	✓	✓					
Crossroads ReadVerify Appl.							✓	✓			
Crossroads SPHiNX											
Crossroads StrongBox											
Crossroads Virtual TapeServer							✓	✓			
FalconStor VTL											
Intradyn ComplianceVault											
NetApp Data ONTAP (NDMP)	7.2.x 7.3.x				✓	✓	✓	✓	✓		
NetApp Data ONTAP (NDMP)	8.x		✓	✓	✓	✓	✓	✓	✓		
NetApp NearStore VTL Series							✓	✓			

Key:  
✓ Supported

Notes:  
1. Requires connectivity of tape drive to HP Virtual TapeServer for NonStop Systems.

# Hewlett Packard Enterprise - StoreEver Standalone Tape Support - ProLiant DL Servers (Page 1 of 5)

IMPORTANT: Consult the individual Server QuickSpecs for supported Storage Controller (HBAs).

IMPORTANT: To find the supported HBA firmware and drivers see the [Operating Systems pages](#) in this Matrix.

## HP ProLiant DL Servers / Standalone Tape drives <sup>1</sup>

Server QuickSpec	HPE LTO-7 Ultrium 15000	HP LTO-6 Ultrium 6650	HP LTO-6 Ultrium 6250	HP LTO-5 Ultrium 3280	HP LTO-5 Ultrium 3000	HP LTO-4 Ultrium 1840	HP LTO-4 Ultrium 1760	HP LTO-3 Ultrium 920
	LTO-7 HH SAS	LTO-6 FH SAS	LTO-6 HH SAS	LTO-5 FH SAS	LTO-5 HH SAS	LTO-4 FH SAS	LTO-4 HH SAS	LTO-3 HH SAS
DL980 G7 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL585 G7 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL580 Gen9 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL580 Gen8 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL580 G7 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL560 Gen9 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL560 Gen8 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL385p Gen8 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL385 G7 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL380 Gen9 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL80 Gen9 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL380p Gen8 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL380e Gen8 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL380 G7 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL360 Gen9 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL360p Gen8 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL360e Gen8 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL360 G7 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL20 Gen9 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL320e Gen8 v2 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL320e Gen8 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL180 Gen9 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL165 G7 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL160 Gen9 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL60 Gen9 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL160 Gen8 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL120 Gen9 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
DL120 G7 <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E

Key:

✓E Supported Externally

✓I/E Supported both Internally and Externally

Notes:

1. HP LTO Media type and compatibility details can be found under "[Product Highlights](#)".

# Hewlett Packard Enterprise - StoreEver Standalone Tape Support - ProLiant ML Servers (Page 2 of 5)

IMPORTANT: Consult the individual Server QuickSpecs for supported Storage Controller (HBAs).

IMPORTANT: To find the supported HBA firmware and drivers see the [Operating Systems pages](#) in this Matrix.

## HP ProLiant ML Servers / Standalone Tape drives <sup>1</sup>

Server QuickSpec	HPE LTO-7 Ultrium 15000	HP LTO-6 Ultrium 6650	HP LTO-6 Ultrium 6250	HP LTO-5 Ultrium 3280	HP LTO-5 Ultrium 3000	HP LTO-4 Ultrium 1840	HP LTO-4 Ultrium 1760	HP LTO-3 Ultrium 920
	LTO-7 HH SAS	LTO-6 FH SAS	LTO-6 HH SAS	LTO-5 FH SAS	LTO-5 HH SAS	LTO-4 FH SAS	LTO-4 HH SAS	LTO-3 HH SAS
<b>ML350 Gen9</b> <sup>2,3</sup> <a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>ML350p Gen8</b> <a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>ML350e Gen8 v2</b> <a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>ML350e Gen8</b> <a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>ML150 Gen9</b> <sup>3,5</sup> <a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>ML30 Gen9</b> <sup>6</sup> <a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>ML310e Gen8 v2</b> <sup>4</sup> <a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>ML310e Gen8</b> <sup>4</sup> <a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>ML110 Gen9</b> <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<b>ML110 G7</b> <a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>ML10 Gen9</b> <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<b>ML10 v2</b> <sup>4</sup> <a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>MicroServer Gen8</b> <a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E

Key:

✓E Supported Externally

✓I/E Supported both Internally and Externally

Notes:

1. HP LTO Media type and compatibility details can be found under "Product Highlights".
2. Optional Media Cage Kits are required to install HP StoreEver Tape drives inside of the ML350 Gen9 Servers (726545-B21 for SFF, 726561-B21 for LFF servers).
3. Internal tape only supported on HP H240 Smart Host Bus Adapter.
4. Full height tape drives only supported internally with DVD drive removed.
5. Supported on servers with Hot-plug configs only.
6. HPE ML30 Gen9 server requires a power adapter for internal tape drive support - Cable Kit (851615-B21).



# Hewlett Packard Enterprise - StoreEver Standalone Tape Support - ProLiant BL Servers (Page 3 of 5)

IMPORTANT: Consult the individual Server QuickSpecs for supported Storage Controller (HBAs).

IMPORTANT: To find the supported HBA firmware and drivers see the [Operating Systems pages](#) in this Matrix.

## HP ProLiant BL Servers / Standalone Tape drives <sup>1</sup>

HP Integrity Blade Servers	Server QuickSpec	HPE LTO-7 Ultrium 15000		HP LTO-6 Ultrium 6650		HP LTO-6 Ultrium 6250		HP LTO-5 Ultrium 3280		HP LTO-5 Ultrium 3000		HP LTO-4 Ultrium 1840		HP LTO-4 Ultrium 1760		HP LTO-3 Ultrium 920		HP LTO-5 Ultrium SB3000c Tape Blade	HP LTO-4 Ultrium SB1760c Tape Blade	
		LTO-7 HH SAS	LTO-6 FH SAS	LTO-6 HH SAS	LTO-5 FH SAS	LTO-5 HH SAS	LTO-4 FH SAS	LTO-4 HH SAS	LTO-3 HH SAS	LTO-5 HH SAS	LTO-4 HH SAS									
BL920s Gen9	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	
BL890c i4	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	
BL890c i2	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	
BL870c i4	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	
BL870c i2	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	
BL860c i4	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	
BL860c i2	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	
<b>HP ProLiant Blade Servers</b>																				
BL460c (Gen9)	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
BL685c G7	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E
BL660c Gen9	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
BL660c Gen8	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E
BL680c G7	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E
BL620c G7	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E
BL490c G7	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E
BL465c Gen8	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E
BL465c G7	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E
BL460c Gen8	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E
BL460c G7	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E
BL420c Gen8	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E
StoreEasy 3850 Blade	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
StoreEasy 3840 Blade	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓I/E	✓I/E	✓I/E

Key:  
 ✓E Supported Externally  
 ✓I/E Supported both Internally and Externally

Notes:  
 1. HP LTO Media type and compatibility details can be found under "Product Highlights".

# Hewlett Packard Enterprise - StoreEver Standalone Tape Support - Other Servers (Page 4 of 5)

IMPORTANT: Consult the individual Server QuickSpecs for supported Storage Controller (HBAs).

IMPORTANT: To find the supported HBA firmware and drivers see the [Operating Systems pages](#) in this Matrix.

## Other Servers / Standalone Tape drives <sup>1</sup>

Server QuickSpec	HPE LTO-7 Ultrium 15000	HP LTO-6 Ultrium 6650	HP LTO-6 Ultrium 6250	HP LTO-5 Ultrium 3280	HP LTO-5 Ultrium 3000	HP LTO-4 Ultrium 1840	HP LTO-4 Ultrium 1760	HP LTO-3 Ultrium 920
	LTO-7 HH SAS	LTO-6 FH SAS	LTO-6 HH SAS	LTO-5 FH SAS	LTO-5 HH SAS	LTO-4 FH SAS	LTO-4 HH SAS	LTO-3 HH SAS
<a href="#">3PAR StoreServ File Controller V2 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">Superdome 2 (Integrity) QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">Superdome sx2000 (Integrity) QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">StoreEasy 5530 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">StoreEasy 3840 Gateway QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">StoreEasy 1850 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">StoreEasy 1830 &amp; 1840 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">StoreEasy 1650 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">StoreEasy 1630 &amp; 1640 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">StoreEasy 1550 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">StoreEasy 1530 &amp; 1540 QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<a href="#">StoreEasy 1450 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">StoreEasy 1430 &amp; 1440 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">Integrity rx6600 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">Integrity rx3600 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">Integrity rx2800 i4 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">Integrity rx2800 i2 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<a href="#">Integrity rx2660 QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E

Key:

✓E Supported Externally

✓I/E Supported both Internally and Externally

Notes:

1. HP LTO Media type and compatibility details can be found under "Product Highlights" .

# Hewlett Packard Enterprise - StoreEver Standalone Tape Support - Workstations (Page 5 of 5)

IMPORTANT: Consult the individual Workstation QuickSpecs for supported Storage Controller (HBAs).

IMPORTANT: To find the supported HBA firmware and drivers see the [Operating Systems pages](#) in this Matrix.

## HP Workstations / Standalone Tape drives <sup>1</sup>

	Server QuickSpec	HPE LTO-7	HP LTO-6	HP LTO-6	HP LTO-5	HP LTO-5	HP LTO-4	HP LTO-4	HP LTO-3
		Ultrium 15000	Ultrium 6650	Ultrium 6250	Ultrium 3280	Ultrium 3000	Ultrium 1840	Ultrium 1760	Ultrium 920
		LTO-7 HH SAS	LTO-6 FH SAS	LTO-6 HH SAS	LTO-5 FH SAS	LTO-5 HH SAS	LTO-4 FH SAS	LTO-4 HH SAS	LTO-3 HH SAS
<b>z840</b> <sup>2</sup>	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<b>z820</b> <sup>2</sup>	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<b>z800</b> <sup>2</sup>	<a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>z640</b>	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<b>z620</b>	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<b>z600</b>	<a href="#">QuickSpec</a>	✓E	✓E	✓E	✓E	✓E	✓E	✓E	✓E
<b>z440</b>	<a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>z420</b>	<a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>z400</b>	<a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E
<b>z230</b>	<a href="#">QuickSpec</a>								
<b>z230 SFF</b>	<a href="#">QuickSpec</a>								
<b>z220</b>	<a href="#">QuickSpec</a>	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E	✓I/E

Key:

✓E Supported Externally

✓I/E Supported both Internally and Externally

Notes:

1. HP LTO Media type and compatibility details can be found under "Product Highlights".

2. Requires HP XW Workstation Int-Ext SAS Back Panel Connector Kit (EM164AA)

# Hewlett Packard Enterprise - StoreEver Standalone Tape Controllers and SAS Cables

Important: See "[HPE StoreEver MSL SAS Tape Library Controllers and SAS Cables page](#)" for additional cables.

## Server Controllers

Controller/HBA	Tape Drives	Internal Drive Cables	External Drive Cable	1U & 3U Rack-Mount Kit
Smart HBA H241, Smart Array P441, P841	ALL LTO SAS Tape drives	--	716191-B21	716193-B21
Smart HBA H240, H240ar, Smart Array P440ar, P430, P830, HP HBA H220	LTO-7, LTO-6 & LTO-5	AP747A <sup>2</sup>	--	--
Smart HBA H240, H240ar, Smart Array P440ar, P430, P830, HP HBA H220	LTO-4 & LTO-3	AP746A <sup>2</sup>	--	--
Smart Array P431	ALL LTO SAS Tape drives	--	716191-B21	716193-B21
Smart Array P421HP Host Bus Adapter H221	ALL LTO SAS Tape drives	--	AE470A	AE465A
Smart Array P222, P822, P212 <sup>4</sup> , P812HP Host Bus Adapter H222	LTO-7, LTO-6 & LTO-5	AP747A <sup>2</sup>	AE470A	AE465A
Smart Array P222, P822, P212 <sup>4</sup> , P812HP Host Bus Adapter H222	LTO-4 & LTO-3	AP746A <sup>2</sup>	AE470A	AE465A
Smart Array P410	LTO-7, LTO-6 & LTO-5	AP747A <sup>2</sup>	--	--
Smart Array P410	LTO-4 & LTO-3	AP746A <sup>2</sup>	--	--
Smart Array P411, P812	ALL LTO SAS Tape drives	--	AE470A	AE465A
HP 8 Internal Port SAS HBA with RAID	ALL LTO SAS Tape drives	--	--	--
LSI 3041E 4-Port SAS 3Gb RAID Card	ALL LTO SAS Tape drives	--	AE470A <sup>1</sup>	--

## Workstation Only Controllers

Controller/HBA	Tape Drives	Internal Drive Cables	External Drive Cable	1U & 3U Rack-Mount Kit
LSI 2308 Controller (Integrated)	ALL LTO SAS Tape drives	--	EM164AA <sup>3</sup> + AE470A	EM164AA + AE470A <sup>2</sup>
LSI 9270-8i SAS 6Gb ROC RAID	LTO-7, LTO-6 & LTO-5	AP747A <sup>2</sup>	--	--
LSI 9270-8i SAS 6Gb ROC RAID	LTO-4 & LTO-3	AP746A <sup>2</sup>	--	--
LSI 9217-4i4e SAS 6Gb	LTO-7, LTO-6 & LTO-5	AP747A <sup>2</sup>	EM164AA <sup>3</sup> + AE470A	EM164AA + AE470A
LSI 9217-4i4e SAS 6Gb	LTO-4 & LTO-3	AP746A <sup>2</sup>	EM164AA <sup>3</sup> + AE470A	EM164AA + AE470A
LSI 1068e 3Gb SAS Controller (Integrated)	ALL LTO SAS Tape drives	--	EM164AA <sup>3</sup> + AE470A	EM164AA + AE470A
LSI MegaRAID 9260-8i SAS 6Gb	LTO-7, LTO-6 & LTO-5	AP747A <sup>2</sup>	--	--
LSI MegaRAID 9260-8i SAS 6Gb	LTO-4 & LTO-3	AP746A <sup>2</sup>	--	--
LSI 9212-i SAS 6Gb	LTO-7, LTO-6 & LTO-5	--	EM164AA <sup>3</sup> + AE470A	EM164AA + AE470A
LSI 9212-i SAS 6Gb	LTO-4 & LTO-3	--	EM164AA <sup>3</sup> + AE470A	EM164AA + AE470A

## Recommended Controllers

Recommended Controllers for these Servers	Tape Drives	External Connect	Internal Connect
ProLiant DL(160,180,360,380)	LTO-7, LTO-6, LTO-5, LTO-4 & LTO-3	H241	--
ProLiant ML350 Servers Gen9	LTO-7, LTO-6, LTO-5, LTO-4 & LTO-3	H241	H240
ProLiant DL + ML Servers Gen8	LTO-7, LTO-6, LTO-5, LTO-4 & LTO-3	H222	H222
ProLiant DL + ML Servers G7	LTO-7, LTO-6, LTO-5, LTO-4 & LTO-3	P212 <sup>4</sup>	P212 <sup>4</sup>

### Notes

1. Requires HP XW Workstation Int-Ext SAS Back Panel Connector Kit (EM164AA)
2. Cable is provided with the tape drive.
3. This is an internal cable connects the internal SAS channel to the bulkhead. This in turn connects to a AE470A external cable.
4. For block sizes larger than 64KB order cached version of P212 card ( Part # 462834-B21). Zero memory version of P212 not recommended for tape.

# Hewlett Packard Enterprise - StoreEver Standalone Tape Controllers and SAS Cables

Important: See "[HPE StoreEver MSL SAS Tape Library Controllers and SAS Cables page](#)" for additional cables.

## SAS Cable Included with drives <sup>1</sup>

Tape Drive Form Factor	Tape Technology	Cable included W/Drive	Description
LTO SAS External Tape	LTO-7, LTO-6, LTO-5, LTO-4, LTO-3	Cable included W/Drive	MINI SAS HD TO MINI SAS, EXTERNAL, 4-LANE <sup>2</sup>
LTO SAS Internal Tape	LTO-7 & LTO-6	Cable included W/Drive	Int 8482 w/power to 2 x Int Mini SAS 8087, 0.89M <sup>2</sup>
LTO SAS Internal Tape	LTO-5	Cable included W/Drive	Int 8482 w/power to 2 x Int Mini SAS 8087, 0.89M <sup>2</sup>
LTO SAS Internal Tape	LTO-4, LTO-3	AP746A	716191-B21

## SAS Cable Part Numbers, Descriptions and Uses

Cable Part Number	Description	Use cases
716191-B21	HP 2.0m External Mini SAS High Density to Mini SAS Cable	Use this cable to connect HP StoreEver SAS external tape devices to HP SAS controllers with external Mini-SAS HD (SFF8644) connectors.
716193-B21	HP 4.0m External Mini SAS High Density to Mini SAS Cable	Use this cable to connect HP StoreEver SAS external tape devices to HP SAS controllers with external Mini-SAS HD (SFF8644) connectors.
AE490A	SAS cable, Int. Drive SFF8482, split to 2 x Internal SFF8484, 1m	Use this cable to connect HP StoreEver Ultrium 448, 920, 1760 and 1840 SAS internal tape drives to legacy HP SAS controllers with 4i (SFF8484) connectors.
AE491A	SAS cable, Int. Drive SFF8482, split to 2 x Internal SFF8484, with power, 1m	Use this cable to connect HP StoreEver DAT160 and LTO-5 SAS internal tape drives to legacy HP SAS controllers with 4i (SFF8484) connectors.
AE466A	2M External Infiniband (SFF8470) to Mini-SAS (SFF8088) 1x SAS Cable	Use this cable to connect HP StoreEver SAS external tape devices to SAS controllers with Infiniband (SFF8470) connectors.
AE468A	4M External Infiniband (SFF8470) to Mini-SAS (SFF8088) 1x SAS Cable	Use this cable to connect HP StoreEver SAS external tape devices to SAS controllers with Infiniband (SFF8470) connectors.
AH587A	2M External Infiniband (SFF8470) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable	Use this cable to connect HP StoreEver MSL SAS Tape Libraries to SAS controllers with Infiniband (SFF8470) connectors.
AP746A	HP StoreEver Mini-SAS Cable for LTO Internal Tape Drive	Use this cable to connect HP StoreEver LTO Ultrium internal tape drives to Mini-SAS (SFF8087) ports.
AE470A	2M External Mini-SAS (SFF8088) to Mini-SAS (SFF8088) 1x SAS Cable	Use this cable to connect HP StoreEver SAS external tape devices to HP SAS controllers with external Mini-SAS (SFF8088) connectors.
AE465A	4M External Mini-SAS (SFF8088) to Mini-SAS (SFF8088) 1x SAS Cable	Use this cable to connect HP StoreEver SAS external tape devices to HP SAS controllers with external Mini-SAS (SFF8088) connectors.
AE464A	4M External Mini-SAS (SFF8088) to SAS 4i (SFF8484) 3x/1x Split SAS Cable	This split cable connects internally to SAS Hard Drive Cage (3x) and externally to the tape device (1x) with other connector attaching to HP SAS controllers with SAS 4i (SFF8484) connectors. The 1x cable occupies additional PCI slot on the server.
AG452A	4M External Mini-SAS (SFF8088) to Internal Mini-SAS (SFF8087) 3x/1x Split SAS Cable	This split cable connects internally to SAS Hard Drive Cage (3x) and externally to the tape device (1x) with other connector attaching to the Smart Array P400i controller inside a DL360 G5 or DL365 G5 server. The 1x cable occupies additional PCI slot on the server.

### Notes:

- For additional information about SAS cable kits, please see the product QuickSpecs for the applicable tape drive at: [hpe.com/info/qs](http://hpe.com/info/qs).
- Use of this cable in a HP ProLiant Gen9 server requires that all (x4) SAS ports be dedicated to the tape drive and cannot be used to connect to the hard drive backplane.

# Hewlett Packard Enterprise - StoreEver Standalone Tape Rack-mount Kits Support

IMPORTANT: Consult the individual Tape Drive QuickSpecs ([hpe.com/info/qs](http://hpe.com/info/qs)) for additional details

## Rack-mount Kits / Standalone Tape drives <sup>1</sup>

HP Ultrium Drives		3U SAS Rack-mount Kit AG576A or AG576B	1U SAS Rack-mount Kit AE459A or AE459B
HP LTO-7 Ultrium 15000	(LTO-7 HH SAS)		✓
HP LTO-6 Ultrium 6650	(LTO-6 FH SAS)	✓	
HP LTO-6 Ultrium 6250	(LTO-6 HH SAS)	✓	✓
HP LTO-5 Ultrium 3280	(LTO-5 FH SAS)	✓	
HP LTO-5 Ultrium 3000	(LTO-5 HH SAS)	✓	✓
HP LTO-4 Ultrium 1840	(LTO-4 FH SAS)	✓	
HP LTO-4 Ultrium 1760	(LTO-4 HH SAS)	✓	✓
HP LTO-3 Ultrium 920	(LTO-3 HH SAS)	✓	✓

### Key

✓ Supported

### Notes:

1. HPE LTO Media type and compatibility details can be found under "Product Highlights" .

# Hewlett Packard Enterprise - StoreEver Tape Library Systems

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This section includes the following:

- Tape Library Firmware
- Tape Library Backup and Archive Application Support
- Tape Library Features
- Tape Library Cables

# Hewlett Packard Enterprise - StoreEver Tape Libraries, Autoloaders, Tape Drive firmware & drivers

## Enterprise Libraries <sup>1,5</sup>

Tape Libraries	Description	Firmware <sup>2</sup>
ESL G3 Tape Library	(MCB Ver. 2)	735H.GS04600
	(MCB Ver. 1) <sup>4</sup>	656H.GS10801
LTO-7 Ultrium 15750	(LTO-7 FH FC)	G340
LTO-6 Ultrium 6650	(LTO-6 FH FC)	J5IW
LTO-5 Ultrium 3280	(LTO-5 FH FC)	I6PW
LTO-4 Ultrium 1840	(LTO-4 FH FC)	H6HW

## Microsoft Windows Drivers for Tape Libraries and Tape Drives

	2012 R2 x64	2012 x64	2008 R2 x64	2008 x64	2008 x86
HPE LTO Tape Driver <sup>3</sup>	1.0.9.1	1.0.9.1	1.0.9.1	1.0.7.2	1.0.7.2
ESL G3 Tape Library	7.5.8.2	7.5.8.1	7.5.7.1	7.5.7.1	7.5.7.1
MSL6480 Tape Library	3.0.0.3	3.0.0.0	3.0.0.0	3.0.0.0	3.0.0.0
MSL8096, 8048, 4048, 2024	3.0.0.3	3.0.0.0	3.0.0.0	3.0.0.0	3.0.0.0
1/8 G2 Tape Autoloader	3.0.0.3	3.0.0.0	3.0.0.0	3.0.0.0	3.0.0.0

### Notes

1. LTO Media type and compatibility details can be found under "[Product Highlights](#)".
2. Refer to [HPE Drivers & Downloads](#) to download correct FW and driver versions for tape drives.
3. LTO-7 supported with 1.0.9.1 or later
4. LTO-7 not supported with MCB Ver. 1
5. Support applies to HP & HPE branded drives

## Mid-Range Libraries & Autoloaders <sup>1,5</sup>

Tape Libraries	Description	Firmware <sup>2</sup>
MSL6480	(FC or SAS Drives only)	4.91
MSL8096 / 8048	(MSL G3 Series)	1150
MSL4048	(MSL G3 Series)	8.90
MSL2024	(MSL G3 Series)	6.40
1/8 G2 Autoloader (HH Drives only)	(MSL G3 Series)	4.50
LTO-7 Ultrium 15000	(LTO-7 HH FC)	G341
LTO-7 Ultrium 15000	(LTO-7 HH SAS)	G341
LTO-6 Ultrium 6250	(LTO-6 HH FC)	25GW
LTO-6 Ultrium 6250	(LTO-6 HH SAS)	35JW
LTO-5 Ultrium 3280	(LTO-5 FH FC)	I6PW
LTO-5 Ultrium 3000	(LTO-5 HH FC)	Y6NW
LTO-5 Ultrium 3000	(LTO-5 HH SAS)	Z6KW
LTO-4 Ultrium 1840	(LTO-4 FH FC)	H6FW
LTO-4 Ultrium 1760	(LTO-4 HH SAS)	U62W



# Hewlett Packard Enterprise - StoreEver Tape Libraries & Autoloaders - Software Partner Support

IMPORTANT: Consult the Software vendor's compatibility lists to confirm software versions and specific device support.  
Hyperlinks provided on [ISV Compatibility Links](#) page.

## Software Partner Support for SAN Connectivity

	Latest Tested Version	HP ESL G3 Tape Library	HPE LTO-7 Ultrium 15750 (Minimum ISV Version)	HP LTO-6 Ultrium 6650	HP LTO-5 Ultrium 3280	HP LTO-4 Ultrium 1840
			FH FC	FH FC	FH FC	FH FC
HPE Data Protector	9.x	✓	✓ (8.15 & 9.05)	✓	✓	✓
Arcserve Backup	17.x	✓	✓ (v17)	✓	✓	✓
Acronis Advanced Backup	11.x	✓		✓	✓	✓
Archiware P5	5.x	✓		✓	✓	✓
ASG Time Navigator	4.x	✓	✓ (v4.4 SP2)	✓	✓	✓
Barracuda Yosemite Backup	10.x	✓	✓ (10.5)	✓	✓	✓
BridgeHead HDM Suite	15a	✓	✓ (15A)	✓	✓	✓
Catalogic DPX (SyncSort DPX)	4.x	✓		✓	✓	✓
Commvault Simpana	11.x	✓	✓ (10.11)	✓	✓	✓
Dell NetVault	11.x.x	✓	✓ (11.0)	✓	✓	✓
EMC NetWorker	9.0	✓	✓ (9.0.0.2 & 8.2.2.3)	✓	✓	✓
ETI-NET						
Front Porch Digital DIVArchive	7.x	✓		✓	✓	✓
IBM Spectrum Protect (TSM)	7.1.x	✓	✓ (7.1.3)	✓	✓	✓
Interica IDS, PARS		✓			✓	✓
MDA Archive Management System		✓			✓	
Microsoft System Center DPM	2012 & R2	✓	✓	✓	✓	✓
Oracle Secure Backup	10.x	✓		✓	✓	✓
QStar Archive Manager	6.x	✓	✓ (6.12)	✓	✓	✓
Quantum StorNext	4.7.x	✓		✓	✓	✓
Retrospect	11.x Win, 13.x OS X					
Seven10 StorFirst	4.8.x	✓			✓	✓
SGL StorHouse (FileTek)		✓		✓	✓	✓
SGL FlashNet	6.6.x	✓	✓ (6.4.x)	✓	✓	✓
SoleraTec Phoenix	v6	✓	✓ (v6.5.3)	✓	✓	
StorageDNA DNA Evolution		✓		✓	✓	
TOLIS BRU Server	2.0.x	✓	✓ (2.0.3)	✓	✓	✓
TOLIS BRU Producer's Edition	3.1.x	✓	✓ (3.1.16)	✓	✓	✓
Veeam Backup & Replication	v9	✓	✓ (v9)	✓	✓	
Veritas Backup Exec	15	✓	✓ (v15 FP1)	✓	✓	✓
Veritas NetBackup	7.7.x	✓	✓ (v7.5)	✓	✓	✓
XenData Archive Series		✓		✓	✓	✓
Yoyotta YoyottaID <sup>1</sup>	2.2					

Key:  
 ✓ Supported  
 ✓<sup>1</sup> Supported in conjunction with note x

Notes  
 1. Not supported with ATTO Multipath Driver

# Hewlett Packard Enterprise - StoreEver Tape Libraries & Autoloaders - Software Partner Support (2 of 2)

IMPORTANT: Consult the Software vendor's compatibility lists to confirm software versions and specific device support.

Hyperlinks provided on [ISV Compatibility Links](#) page.

## Software Partner Support for DAS and SAN Connectivity

	Latest Tested Version	MSL6480 Scalable Tape Library	MSL8096 MSL4048 MSL2024 1/8 G2 AL	HPE LTO-7 Ultrium 15000 HH FC & HH SAS	HP LTO-6 Ultrium 6250 HH FC	HP LTO-6 Ultrium 6250 HH SAS	HP LTO-5 Ultrium 3280 FH FC	HP LTO-5 Ultrium 3000 HH FC	HP LTO-5 Ultrium 3000 HH SAS	HP LTO-4 Ultrium 1840 FH FC	HP LTO-4 Ultrium 1760 HH SAS
HPE Data Protector	9.x	✓	✓	✓ (8.15 & 9.05)	✓	✓	✓	✓	✓	✓	✓
Arcserve Backup	17.x	✓ <sup>1</sup>	✓ <sup>1</sup>	✓ (v17)	✓	✓	✓	✓	✓	✓	✓
Acronis Advanced Backup	11.x	✓	✓		✓	✓	✓	✓	✓		
Archiware P5	5.x	✓	✓		✓	✓	✓	✓	✓	✓	✓
ASG Time Navigator	4.x	✓	✓	✓ (v4.4 SP2)	✓	✓	✓	✓	✓	✓	✓
Barracuda Yosemite Backup	10.x	✓	✓	✓ (10.5)	✓	✓	✓	✓	✓	✓	✓
BridgeHead HDM Suite	15a	✓	✓	✓ (15A)	✓	✓	✓	✓	✓	✓	✓
Catalogic DPX (SyncSort DPX)	4.x	✓	✓		✓	✓	✓	✓	✓	✓	✓
Commvault Simpana	11.x	✓	✓	✓ (10.11)	✓	✓	✓	✓	✓	✓	✓
Dell NetVault	11.x.x	✓	✓	✓ (11.0)	✓	✓	✓	✓	✓	✓	✓
EMC NetWorker	9.0	✓	✓	✓ (9.0.0.2 & 8.2.2.3)	✓	✓	✓	✓	✓	✓	✓
ETI-NET			✓							✓	✓
Front Porch Digital DIVArchive	7.x	✓	✓		✓	✓	✓	✓	✓	✓	✓
IBM Spectrum Protect (TSM)	7.1.x	✓	✓	✓ (7.1.3)	✓	✓	✓	✓	✓	✓	✓
Interica IDS, PARS			✓				✓	✓	✓	✓	✓
MDA Archive Management System											
Microsoft System Center DPM	2012 & R2	✓	✓		✓	✓	✓	✓	✓	✓	✓
Oracle Secure Backup	10.x	✓	✓		✓	✓	✓	✓	✓	✓	✓
QStar Archive Manager	6.x	✓	✓	✓ (6.12)	✓	✓	✓	✓	✓	✓	✓
Quantum StorNext	4.7.x	✓	✓		✓		✓	✓		✓	
Retrospect	11.x Win, 13.x OS X	✓	✓	✓ (Win. 10.5, Mac 12.5)	✓	✓	✓	✓	✓	✓	✓
Seven10 StorFirst	4.8.x		✓				✓	✓	✓	✓	✓
SGL StorHouse (FileTek)		✓	✓		✓	✓	✓	✓	✓	✓	✓
SGL FlashNet	6.6.x	✓	✓	✓ (6.4.x)	✓	✓	✓	✓	✓	✓	✓
SoleraTec Phoenix	v6	✓	✓	✓ (v6.5.3)	✓	✓	✓	✓	✓		
StorageDNA DNA Evolution		✓	✓		✓	✓	✓	✓	✓		
TOLIS BRU Server	2.0.x	✓	✓	✓ (2.0.3)	✓	✓	✓	✓	✓	✓	✓
TOLIS BRU Producer's Edition	3.1.x	✓	✓	✓ (3.1.16)	✓	✓	✓	✓	✓	✓	✓
Veeam Backup & Replication	v9	✓	✓	✓ (v9)	✓	✓	✓	✓	✓		
Veritas Backup Exec	15	✓	✓	✓ (v15 FP1)	✓	✓	✓	✓	✓	✓	✓
Veritas NetBackup	7.7.x	✓	✓	✓ (v7.5)	✓	✓	✓	✓	✓	✓	✓
XenData Archive Series		✓	✓		✓	✓	✓	✓	✓	✓	✓
Yoyotta YoyottalD <sup>2</sup>	2.2	✓	✓	✓	✓	✓	✓	✓	✓		

Key:  
 ✓ Supported  
 ✓<sup>2</sup> Supported in conjunction with note x

Notes  
 1. HP ProLiant Agentless Management Service causes MSL libraries to never become ready when running Arcserve Backup software. Disable the service in Windows then reboot to fix.  
 2. Not supported with ATTO Multipath Driver

# Hewlett Packard Enterprise - StoreEver Tape Libraries & Autoloaders - Appliance Partner Support

IMPORTANT: Consult the Appliance vendor's compatibility lists to confirm versions and specific device support.  
 Hyperlinks provided on [ISV Compatibility Links](#) page.

## Storage Appliance Partner Support for DAS and SAN Connectivity

	HP ESL	HPE LTO-7	HP LTO-6	HP LTO-5	HP LTO-4	MSL6480 Scalable Library	MSL8096 MSL4048 1/8 G2 AL	HPE LTO-7 Ultrium 15000 HH FC	HPE LTO-7 Ultrium 15000 HH SAS	HP LTO-6 Ultrium 6250 HH FC	HP LTO-6 Ultrium 6250 HH SAS	HP LTO-5 Ultrium 3280 FH FC	HP LTO-5 Ultrium 3000 HH FC	HP LTO-5 Ultrium 3000 HH SAS	HP LTO-4 Ultrium 1840 FH FC	HP LTO-4 Ultrium 1760 HH SAS
<b>HP NonStop Servers</b>																
Cache-A ProCache Appl.								✓			✓			✓		✓
Cache-A PowerCache Appl.								✓			✓			✓		✓
Crossroads ReadVerify Appl.	✓			✓			✓					✓	✓		✓	
Crossroads SPHiNX							✓								✓	
Crossroads StrongBox	✓			✓			✓					✓	✓			
<b>Crossroads Virtual TapeServer</b>																
<b>FalconStor VTL</b>																
<b>Intradyn ComplianceVault</b>																
NetApp Data ONTAP (NDMP) 8.x	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓
NetApp Data ONTAP (NDMP) 7.2.x 7.3.x	✓		✓ <sup>1</sup>	✓	✓	✓	✓			✓ <sup>1</sup>	✓ <sup>1</sup>	✓	✓	✓	✓	✓
NetApp NearStore VTL Series							✓								✓	

Key:  
 ✓ Supported

Notes:  
 1. v7.3.7 or later required for LTO-6.

# Hewlett Packard Enterprise - StoreEver Archive Manager

For tape library, drive, HBA, and SAN switch compatibility, see the StoreEver MSL and ESL pages of this BURA Compatibility Matrix.

For more information on product benefits, configurations, and ordering, see [hpe.com/storage/archivemanager](http://hpe.com/storage/archivemanager).

For manuals, downloads, and support information, see [hpe.com/support/archivemanager](http://hpe.com/support/archivemanager).

	HPE StoreEver Archive Manager	HPE StoreEver Archive Migrator	HPE StoreEver Archive Replicator	HPE StoreEver Technology Migration Tool
<b>Software Version for Windows</b>	6.13.5718	8.4.0.120		
<b>Software Version for Linux</b>	6.13.5718	8.4.0.120		
<b>Tape Libraries Supported</b>	MSL2024, MSL4048, MSL6480, and ESL G3	MSL2024, MSL4048, MSL6480, and ESL G3	MSL2024, MSL4048, MSL6480, and ESL G3	MSL2024, MSL4048, MSL6480, and ESL G3
<b>Tape Technology Support</b>	LTO-5, LTO-6, LTO-7	LTO-5, LTO-6, LTO-7	LTO-5, LTO-6, LTO-7	LTO-5, LTO-6, LTO-7
<b>Software Licensing</b>	Licensed by data capacity; scalable .	Licensed by data transferred; scalable. Requires Archive Manager	Licensed by data capacity; scalable. Requires Archive Manager	One-time enablement , not by capacity. Requires Archive Manager
<b>Server Requirements</b>	Minimum: 2-core, 2.0 GHz CPU, 1GB RAM, 2GB of free disk space for installation Recommended: 6-core, 1.6 GHz CPU, 8 GB RAM, 2 GB of free disk space for installation 10/100 Base-T network card (static IP address recommended). Fibre Channel or SAS HBAs to connect to selected tape library and drives. Virtual servers are not supported for tape connect	See Archive Manager. Requires Archive Manager; may be installed on same server	See Archive Manager. Requires Archive Manager; enabled through Archive Manager.	See Archive Manager. Requires Archive Manager; enabled through Archive Manager.
<b>Disk buffer requirements per integral volume<sup>1</sup>, in server or external</b>	Minimum: 100GB HDD. Recommended: 400GB SDD mirrored pair <sup>2</sup>	Not applicable	See Archive Manager	See Archive Manager
<b>Operating Systems: server/engine</b>	Windows Server 2008 (SP2, R2 SP1, 64-bit), Windows Server 2012 (R2, 64-bit), Red Hat Enterprise Linux (64-bit) 6.5, 6.6, 6.7 Red Hat Enterprise Linux (64-bit) 7.0, 7.1, 7.2	See Archive Manager	See Archive Manager	See Archive Manager
<b>Maximum integral volumes<sup>1</sup> per Archive Manager installation</b>	10	Not applicable	10	Not applicable
<b>Operating Systems: Archive Migrator client agents</b>	Not applicable	Only local file systems with a Migrator agent running on them are supported: Windows Server 2008 (SP2, R2 SP1, 64-bit), Windows Server 2012 (R2, 64-bit), Red Hat Enterprise Linux (64-bit) 6.5, 6.6, 6.7, 7.0, 7.1, 7.2. Heterogeneous client/server OS is recommended.	Not applicable	Not applicable
<b>Remote File System protocols supported</b>	SMB (CIFS), NFS-3 & NFS-4	Not applicable	Not applicable	Not applicable
<b>Operating System File Systems supported</b>	Windows: NTFS Linux: EXT3, EXT4, XFS	Windows: NTFS Linux: EXT3, EXT4, XFS	Windows: NTFS Linux: EXT3, EXT4, XFS	Windows: NTFS Linux: EXT3, EXT4, XFS
<b>Tape format</b>	LTFS, (standard, R/W), TDO (proprietary, R/W or WORM)	LTFS, (standard, R/W), TDO (proprietary, R/W or WORM)	LTFS, (standard, R/W), TDO (proprietary, R/W or WORM)	LTFS, (standard, R/W), TDO (proprietary, R/W or WORM)

Notes:

1. An integral volume is a construct of the combination of disk space and tape drives that is created within the Archive Manager host for sharing externally as a standard network volume for client access.
2. 350GB for buffer and 50GB for meta data

# Hewlett Packard Enterprise - StoreEver Archiving Solution Partners

IMPORTANT: Consult the Appliance vendor's compatibility lists to confirm versions and specific device support.  
Hyperlinks provided on [ISV Compatibility Links](#) page.

## Software Partners

Application	Feature	Support for Linear Tape File System (LTFS)
<b>HPE StoreOpen Automation &amp; Standalone</b>	Free utility for basic LTFS connectivity to HPE tape libraries and tape drives	✓
<b>HPE StoreEver Archiver Manager</b>	Tape archive by virtualizing one or more StoreEver LTO Tape Libraries	✓
<b>ASG - Time Navigator</b>	Advanced protection and archival solution	
<b>Commvault Simpana Archive</b>	Archive, retrieve, and backup relational and file-based information	
<b>SGI StorHouse (FileTek)</b>	Archive, retrieve, and backup relational and file-based information	✓
<b>Front Porch Digital DIVArchive</b>	Content Storage Management system for digital media	
<b>Interica IDS &amp; PARS</b>	Archiving solutions to preserve the value and integrity of information	
<b>MDA Archive Management System</b>	Surveillance, Intelligence, Communication, and Advanced Technology solutions	
<b>QStar Archive Manager</b>	Provides data archive functionality and auto migration	✓
<b>Quantum StorNext</b>	High Performance Workflow and Intelligent Archiving	✓
<b>Seven10 StorFirst Altus &amp; EAS</b>	Enterprise file system archiving and disaster recovery software	
<b>SGL FlashNet</b>	Content storage and archive management	✓
<b>StorageDNA DNA Evolution</b>	Designed for Nearline and Archival of media assets.	✓
<b>TOLIS BRU</b>	Artists/producers can now easily drag-and-drop to create session archives	✓
<b>XenData Archive Series</b>	Powerful, scalable digital archives	✓
<b>Yoyotta YoyottaID</b>	Archive assets to LTFS	✓

## Hardware Partners

Product	Feature	Support for Linear Tape File System (LTFS)
<b>Intradyn ComplianceVault</b>	Email Archiving & Retrieval Appliance	
<b>Cache-A PowerCache Appliance</b>	Long Term management of media data in and out of archives	✓
<b>Crossroads ReadVerify Appliance</b>	Monitors and verifies readability of data written to tape	
<b>Crossroads StrongBox</b>	File-based and fully portable storage solution for long- term data retention	✓

Key:  
✓ Supported

# Hewlett Packard Enterprise - ESL Advanced StoreEver Library Features

## ESL G3 Tape Library Features

	HPE Data Protector	Arcserve Backup	Acronis Advanced Backup	Archiware P5	Commvault Simpana	Dell NetVault	EMC NetWorker	IBM Spectrum Protect (TSM)	Quantum StorNext Software	Veritas Backup Exec	Veritas NetBackup
Dual Robot Support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
High Density Expansion Module (HDEM)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Automated Media Pool (AMP) <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
LTO-5 & LTO-6 Basic Control Path Failover <sup>3</sup>	✓	✓	N/S	✓	✓		✓	N/S		N/S	✓
LTO-5 & LTO-6 Basic Data Path Failover <sup>3</sup>	✓	✓	N/S	✓	✓		✓	N/S		✓	✓
LTO-6 driver-based Adv. Control Path Failover <sup>2</sup>	✓	N/S	N/S	✓ <sup>7</sup>	✓ <sup>5</sup>		✓ <sup>6</sup>	✓ <sup>6</sup>	✓	N/S	✓ <sup>11</sup>
LTO-6 driver-based Adv. Data Path Failover <sup>2</sup>	✓	N/S	N/S	✓ <sup>7</sup>	✓ <sup>5</sup>		✓ <sup>6</sup>	✓ <sup>6</sup>	✓	N/S	✓ <sup>11</sup>
LTO-7 driver-based Control Path Failover <sup>9,10</sup>	✓ <sup>8</sup>				✓ <sup>8</sup>		✓ <sup>8</sup>	✓ <sup>12,13</sup>			✓ <sup>8,11</sup>
LTO-7 driver-based Data Path Failover <sup>9,10</sup>	✓ <sup>8</sup>				✓ <sup>8</sup>		✓ <sup>8</sup>	✓ <sup>12,13</sup>			✓ <sup>8,11</sup>
Expansion Module support	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Library Partitioning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mixed Media	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓

## Advanced Drive Features

Application encryption key management <sup>4</sup>	✓	✓	N/S	N/S	✓	✓	N/S	✓	N/S	✓	✓
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### Key:

✓ Supported

N/S Not Supported issues found

### Notes:

- Supported by using partitions.
- Advanced Path Failover requires x64 OS drivers. Drivers available for Windows 2012 R2 / 2012 / 2008 R2; RHEL 7.1 / 6.7 / 6.6 / 6.5 / 6.4 / 6.3 / 6.2; HP-UX 11.31.  
For more details see: [HP StoreEver Tape Libraries Failover User Guide](#).  
Advanced path failover functions with HP E series and Q series FC HBAs. Advanced path failover is not compatible with HP B series FC HBAs.  
Advanced path failover functions with HP B series, C series, and H series FC switches.
- Failover behavior may vary based on configuration.  
For more details see the: [HP StoreEver Tape Libraries Failover User Guide](#).
- For tape drives with hardware encryption support (LTO-7, LTO-6, LTO-5 & LTO-4). Consult ISV vendor for detailed instruction on how to setup the ISV for Key management.  
For more information see the following technical white paper: [Encryption technology for HP StoreEver LTO Ultrium Tape Drives](#).
- Legacy HP-UX 11.31 devices file must first be removed.
- Not currently supported with HP-UX APF drivers.
- Supported with Linux only.
- Only Supported with Windows 2012, 2012 R2, RHEL 6.5, RHEL 6.6 & RHEL 6.7.
- Support details in the [HPE StoreEver Tape Libraries LTO-7 Path Failover User Guide](#).  
LTO-7 path failover functions with HP E series and Q series FC HBAs. LTO-7 path failover is not compatible with HP B series FC HBAs. LTO-7 path failover functions with HP B series, C series, and H series FC switches.
- HP H series switches with LTO-7 may see excessive CRC errors at 8Gbps speeds, set the port speed to 4Gbps for stable communication.
- Veritas NetBackup LTO-6 APF or LTO-7 PF is not supported with RHEL 7.x.
- IBM AIX requires IBM Atape version 13.0.1.0 or higher for Multi-Path support and IBM Spectrum Protect version 7.1.3 or higher
- Only supported with AIX 7.1 TL3 or later.

# Hewlett Packard Enterprise - MSL Advanced StoreEver Library Features

## MSL Library Features

	HPE Data Protector	Arcserve Backup	Acronis Advanced Backup	Archware P5	Commvault Simpana	Dell NetVault	EMC NetWorker	IBM Spectrum Protect (TSM)	Microsoft System Center DPM	Quantum StorNext Software	Veritas Backup Exec	Veritas NetBackup
<b>Library Extender</b> <sup>1</sup>	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
<b>Library Partitioning</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>LTO-5 &amp; LTO-6 Basic Control Path Failover</b> <sup>3</sup>	✓	✓	N/S	✓	✓		✓	N/S			N/S	✓
<b>LTO-5 &amp; LTO-6 Basic Data Path Failover</b> <sup>3</sup>	✓	✓	N/S	✓	✓		✓	N/S			✓	✓
<b>LTO-6 driver-based Adv. Control Path Failover (MSL6480 Only)</b> <sup>2</sup>	✓	N/S	N/S	✓ <sup>5</sup>	✓ <sup>7</sup>		✓ <sup>6</sup>	✓ <sup>6</sup>		✓		✓ <sup>13</sup>
<b>LTO-6 driver-based Adv. Data Path Failover (MSL6480 Only)</b> <sup>2</sup>	✓	N/S	N/S	✓ <sup>5</sup>	✓ <sup>7</sup>		✓ <sup>6</sup>	✓ <sup>6</sup>		✓		✓ <sup>13</sup>
<b>LTO-7 driver-based Control Path Failover (MSL6480 Only)</b> <sup>8,9</sup>	✓ <sup>10</sup>				✓ <sup>10</sup>		✓ <sup>10</sup>	✓ <sup>11,12</sup>				✓ <sup>10,13</sup>
<b>LTO-7 driver-based Data Path Failover (MSL6480 Only)</b> <sup>8,9</sup>	✓ <sup>10</sup>				✓ <sup>10</sup>		✓ <sup>10</sup>	✓ <sup>11,12</sup>				✓ <sup>10,13</sup>

## Advanced Drive Features

<b>Application encryption key management</b> <sup>4</sup>	✓	✓	N/S	N/S	✓	✓	N/S	✓	N/S	N/S	✓	✓
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### Key:

✓ Supported

N/S Not Supported issues found

### Notes:

1. Only support on the MSL8096 / 8048 / 4048 / 2024 Libraries. The MSL6480 is already scalable with optional modules. The first time you install the Extender you must update the firmware in each Library individually.
2. Advanced Path Failover requires x64 OS drivers. Drivers available for Windows 2012 R2 / 2012 / 2008 R2; RHEL 7.1 / 6.7 / 6.6 / 6.5 / 6.4 / 6.3 / 6.2; HP-UX 11.31. For more details see: [HP StoreEver Tape Libraries Failover User Guide](#).  
Advanced path failover functions with HP E series and Q series FC HBAs. Advanced path failover is not compatible with HP B series FC HBAs.  
Advanced path failover functions with HP B series, C series, and H series FC switches.
3. Failover behavior may vary based on configuration. For more details see the: [HP StoreEver Tape Libraries Failover User Guide](#).
4. For tape drives with hardware encryption support (LTO-7, LTO6, LTO5 & LTO4). Consult ISV vendor for detailed instruction on how to setup the ISV for Key management. For more information see the following technical white paper: [Encryption technology for HP StoreEver LTO Ultrium Tape Drives](#).
5. Supported with Linux only.
6. Not currently supported with HP-UX APF drivers.
7. Legacy HP-UX 11.31 devices file must first be removed.
8. Support details in the [HPE StoreEver Tape Libraries LTO-7 Path Failover User Guide](#).  
LTO-7 path failover functions with HP E series and Q series FC HBAs. LTO-7 path failover is not compatible with HP B series FC HBAs. LTO-7 path failover functions with HP B series, C series, and H series FC switches.
9. HP H series switches with LTO-7 may see excessive CRC errors at 8Gbps speeds, set the port speed to 4Gbps for stable communication.
10. Only Supported with Windows 2012, 2012 R2, RHEL 6.5, RHEL 6.6 & RHEL 6.7.
11. IBM AIX requires IBM Atape version 13.0.1.0 or higher for Multi-Path support and IBM Spectrum Protect version 7.1.3 or higher.
12. Only supported with AIX 7.1 TL3 or later.
13. Veritas NetBackup LTO-6 APF or LTO-7 PF is not supported with RHEL 7.x.

# Hewlett Packard Enterprise - Command View Tape Library (CVTL) and Encryption Appliances

	ESL G3	MSL6480	MSL8096 / 8048 / 4048 / 2024 & 1/8G2 Autoloader
Command View Tape Library (CVTL) <sup>2</sup>	5.0.00	5.0.00 <sup>4</sup>	5.0.00
Library firmware	Use latest FW listed on " <a href="#">Tape Library Firmware</a> " Page in this PDF		
HP StoreEver Data Verification API Support	QStar Archive Manager v6.1.3.5600 or later <sup>5</sup> QStar Archive Manager v6.1.3..5600 or later <sup>5</sup>		
Adobe Flash Player (minimum version)	10.3 or later	10.3 or later	10.3 or later
JAVA Run Time (minimum version)	1.6		
HP Enterprise Secure Key Manager 4.0 (eSKM and KMIP standard)	6.0.0 or later	6.0.0 or later	6.0.0 or later <sup>3</sup>
HP Enterprise Secure Key Manager 3.0	5.0.0 or later	5.0.0 or later	
HP Enterprise Secure Key Manager 2.1	4.8.9 or later	4.8.9 or later	
HP Secure Key Manager 1.1	4.8.1	4.8.1	
SafeNet KeySecure models k150 or k460 <sup>1</sup> (KMIP standard)	6.0.2 or later	6.0.2 or later	6.0.2 or later
Prime Factors - EncryptRIGHT (KMIP standard) <sup>6</sup>	6.0.2 or later	4.10.06 or later	4.10.06 or later

Notes:

1. Refer to the [KeySecure Interoperability website](#) for additional information.
2. Data Verification feature requires at a minimum version 3.8.00.
3. KMIP only
4. MSL6480 Firmware 4.60 or later required for support of CVTL 3.9.00 or later.
5. CVTL 3.9.00 or later is required for QStar Support for ESL G3. CVTL 3.9.01 or later is required for MSL6480.
6. For more details visit: [www.primfactors.com/secure-data-encryptright](http://www.primfactors.com/secure-data-encryptright)



# Hewlett Packard Enterprise - StoreEver MSL SAS Tape Library Controllers and SAS Cables

Important: See [HPE StoreEver Standalone Tape SAS Cables page](#) for additional cables.

## Server Controllers

Controller/HBA	Tape Drives	Tape Library SAS Cable	Description
<b>Smart Host Bus Adapter H241 Smart Array P441, P841</b>	ALL LTO SAS Tape drives	K2R09A - 805150-001 K2R10A - 805151-001	2M External Mini-SAS HD (SFF8644) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable 4M External Mini-SAS HD (SFF8644) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable
<b>Smart Array P431</b>	ALL LTO SAS Tape drives	K2R09A - 805150-001 K2R10A - 805151-001	2M External Mini-SAS HD (SFF8644) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable 4M External Mini-SAS HD (SFF8644) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable
<b>Smart Array P421 HP Host Bus Adapter H221</b>	ALL LTO SAS Tape drives	AN975A AN976A	2M External Mini-SAS (SFF8088) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable 4M External Mini-SAS (SFF8088) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable
<b>Smart Array P222, P822, P212<sup>1</sup>, P812 HP Host Bus Adapter H222</b>	LTO-7, LTO-6 & LTO-5	AN975A AN976A	2M External Mini-SAS (SFF8088) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable 4M External Mini-SAS (SFF8088) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable
<b>Smart Array P222, P822, P212<sup>1</sup>, P812 HP Host Bus Adapter H222</b>	LTO-4	AN975A AN976A	2M External Mini-SAS (SFF8088) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable 4M External Mini-SAS (SFF8088) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable
<b>Smart Array P411, P812</b>	ALL LTO SAS Tape drives	AN975A AN976A	2M External Mini-SAS (SFF8088) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable 4M External Mini-SAS (SFF8088) 1x to Mini-SAS (SFF8088) 4x fanout SAS Cable

## Recommended Controllers

Controller/HBA	Tape Drives	Recommended HP Controllers
<b>ProLiant DL(160,180,360,380)</b>	LTO-7, LTO-6, LTO-5, LTO-4	H241
<b>ProLiant ML350 Servers Gen9</b>	LTO-7, LTO-6, LTO-5, LTO-4	H241
<b>ProLiant DL + ML Servers Gen8</b>	LTO-7, LTO-6, LTO-5, LTO-4	H222
<b>ProLiant DL + ML Servers G7</b>	LTO-7, LTO-6, LTO-5, LTO-4	P212 <sup>1</sup>

### Notes

- For block sizes larger than 64KB order cached version of P212 card ( Part # 462834-B21). Zero memory version of P212 not recommended for tape.

# **Hewlett Packard Enterprise - StoreEver - OS, HBA, Switch Support**

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This section includes the following:

- StoreEver Operating System Support
- StoreEver FC, FCoE and SAS HBA Support
- StoreEver Switch Support

IMPORTANT: This section applies to StoreEver only. All Tape Libraries/Drives are supported, unless otherwise noted.

# Hewlett Packard Enterprise - StoreEver - HP-UX (Integrity)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers.

See the [HP-UX Support matrix](#) for server & operating systems support details.

## HP-UX (Integrity)<sup>1,4</sup> Direct Attached & SAN Support

### Operating Systems

### Version

HP-UX 11i v3 (11.31)<sup>3</sup>

HWE & QPK bundles, March 2015

### Servers

### Supported

HP Integrity Superdome 2 and rx Series (i2 / i4)

✓

HP BladeSystem c-Class Integrity Servers (i2 / i4)

✓

Adapter	Description	Interface	Firmware	11iv3 Driver
CN1100E (AT111A) <sup>2</sup>	10GbE CNA	PCI-e	4.9.416.12	B.11.31.1505
NC553m (613431-B21) <sup>2</sup>	10GbE HP BladeSystem CNA		4.9.416.12	B.11.31.1505
NC553i <sup>2</sup>	10GbE HP BladeSystem CNA		4.9.416.12	B.11.31.1505
SN1000Q (B9F23A & B9F24A) <sup>5</sup>	16Gb FC HBA	PCI-e	6.07.02	B.11.31.1506
81Q (AH400A) & 82Q (AH401A)	8Gb FC HBAs	PCI-e	5.06.06	B.11.31.1506
81E (AH402A) & 82E (AH403A)	8Gb FC HBAs	PCI-e	2.02x2	B.11.31.1503
AT094A (FC)	8Gb FC HBAs	PCI-e	2.02x2	B.11.31.1503
AT094A (FCoE)	8Gb FC HBAs	PCI-e	4.9.416.12	B.11.31.1503
QMH2562 (451871-B21)	8Gb HP BladeSystem c-Class FC HBA		5.06.06	B.11.31.1506
LPe1205 (456972-B21)	8Gb HP BladeSystem c-Class FC HBA		2.02x2	B.11.31.1503
AD299A & AD355A	4Gb FC HBA	PCI-e	2.82x4	B.11.31.1503
AD300A	4Gb FC HBA	PCI-e	5.03.15	B.11.31.1503
AD221A, AD222A & AD393A	4Gb FC HBA Combo Card	PCI-e	2.82x4	B.11.31.1503
AD193A & AD194A	4Gb FC HBA Combo Card	PCI-X 2.0	5.03.15	B.11.31.1503
AB379A, AB379B, AB378A & AB378B	4Gb FC HBA	PCI-X 2.0	5.03.15	B.11.31.1503
QMH2462 (403619-B21)	4Gb HP BladeSystem c-Class FC HBA	PCI-e	5.03.15	B.11.31.1503
LPe1105 (403621-B21)	4Gb HP BladeSystem c-Class FC HBA	PCI-e	2.82x4	B.11.31.1503
P711m	6Gb 8-Channel SAS HBA	PCI-e		
P812 (AM312A) & P411 (AM311A)	6Gb 8-Channel SAS HBA	PCI-e		
P700m	3Gb 8-Channel SAS HBA	PCI-e		

#### Notes:

1. StoreEver SAS tape devices support Ignite Boot from Tape.
2. Not supported with Library and Tape Tools.
3. LTO-7 support is enabled by patch PHKL\_44253 delivered via the 1603 OE update for HP-UX 11.31.
4. Advanced path failover functions with HP E series and Q series FC HBAs. Advanced path failover is not compatible with HP B series FC HBAs or Converged Network Adapters.
5. Not supported in non-fabric mode with HP LTO drives when Speed=Auto. A fixed speed must be selected.

# Hewlett Packard Enterprise - StoreEver - Windows (Page 1 of 2)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers. See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Windows <sup>4</sup> Direct Attached & SAN Support

### Operating Systems

	Version
Windows Server 2012 R2 & 2012 x64 (Windows Storage Server 2012 / 2012 R2) <sup>1</sup>	✓
Windows Server 2008 R2 x64 (Windows Storage Server 2008 R2) <sup>2</sup>	sp1
Windows Server 2008 (x86/x64) <sup>3</sup>	sp2

### Servers

	Supported
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓
HP StoreEasy Storage <sup>1</sup>	✓
HP E5000 G2 Messaging Systems <sup>2</sup>	✓
Third Party	✓

Adapter	Description	Interface	Firmware	FC StorPort Driver	NIC Driver	iSCSI StorPort Driver
630FLB (700065-B21) <sup>5</sup> & 630M (700076-B21) <sup>5</sup>	20GbE HP BladeSystem Converged Network Adapter	PCI-e	7.13.3	7.13.4.0	7.13.4.0	7.13.2.0
650FLB (700763-B21) (PCI-e) & 650M (700767-B21)	20GbE HP BladeSystem Converged Network Adapter	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
CN1000E (AW520A)	10GbE HP Converged Network Adapter	PCI-e			iSCSI support only	
CN1000Q (BS668A) <sup>6</sup> & 526FLR (629138-B21) <sup>6</sup>	10GbE HP Converged Network Adapter	PCI-e	4.20.1	9.1.13.0	5.3.30.1001	2.1.6.10
CN1200E (E7Y06A)	10GbE HP Converged Network Adapter	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
556FLR (727060-B21) <sup>5</sup>	10GbE HP Converged Network Adapter	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
CN1100E (BK835A)	10GbE HP Converged Network Adapter	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
554FLR (629142-B21)	10GbE HP Converged Network Adapter	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
CN1100R (QW990A)	10GbE HP Converged Network Adapter	PCI-e	7.13.3	7.13.4.0	7.13.4.0	7.13.2.0
534FLR (700751-B21) <sup>5</sup>	10GbE HP Converged Network Adapter	PCI-e	7.13.3	7.13.4.0	7.13.4.0	7.13.2.0
NC551m (580151-B21) & NC551i	10GbE HP BladeSystem Converged Network Adapters	PCI-e			iSCSI support only	
534FLB (700741-B21), 534M (700748-B21) & 536FLB (766490-B21)	10GbE HP BladeSystem Converged Network Adapters	PCI-e	7.13.3	7.13.4.0	7.13.4.0	7.13.2.0
NC553m (613431-B21), NC553i <sup>7</sup> 554M (647590-B21) & 554FLB (647586-B21)	10GbE HP BladeSystem Converged Network Adapters	PCI-e	10.7.110.34	10.7.110.20	10.7.110.16	10.7.110.6
SN1100Q (P9D93A & P9D94A)	16Gb HP FC Host Bus Adapter	PCI-e	8.03.05	9.1.17.22		
SN1000Q (QW971A & QW972A)	16Gb HP FC Host Bus Adapter	PCI-e	8.02.00	9.1.17.22		
SN1000E (QR558A/QR559A)	16Gb HP FC Host Bus Adapter	PCI-e	10.7.110.31	10.7.110.20		
SN1100E (C8R38A & C8R39A)	16Gb HP FC Host Bus Adapter	PCI-e	10.7.110.31	10.7.110.20		
LPe1605 (718203-B21)	16Gb HP BladeSystem c-Class FC Host Bus Adapter	PCI-e	10.7.110.31	10.7.110.20		
QM2672 (710608-B21)	16Gb HP BladeSystem c-Class FC Host Bus Adapter	PCI-e	8.02.00	9.1.17.22		

#### Notes:

- Supports HP StoreEasy: 5530, 3830, 3830 Storage Blade, 1830, 1630, 1530, 1430 and 3Par StoreServ File Controller Storage; HP StoreEasy: 3840, 3840 Storage Blade, 1840, 1640, 1540, 1440 and 3Par StoreServ File Controller v2 Storage; HP StoreEasy 1850, 1650 & 1450.
- Supports Messaging Systems E5300, E5500, E5700; HP StoreEasy: 5530, 3830, 3830 Storage Blade, 1830, 1630, 1530, 1430; HP StoreEasy: 3840, 3840 Storage Blade, 1840, 1640, 1540, 1440 and HP Network Storage Systems X5520 G2, X3800sb G2 1, X3800 G2, X3400 G2, X3000 G2, X1800 G2.
- LTO-7 not supported on Windows Server 2008
- LTO-6 Advanced path failover & LTO-7 path failover functions with HP E series and Q series FC HBAs. LTO-6 Advanced path failover & LTO-7 path failover is not compatible with Windows Server 2008 x86 or HP B series FC HBAs.
- Supported block sizes up to 256K only.
- There is a potential for network interruption when using Qlogic StorPort driver 9.1.11.16, 9.1.11.20 or 9.1.11.24 during the reboot or FW update of StoreOnce or StoreEver products. It is recommended that the StoreOnce and StoreEver product be disabled or disconnected from the network during reboot or FW update.

# Hewlett Packard Enterprise - StoreEver - Windows (Page 2 of 2)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers. See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Windows <sup>5</sup> Direct Attached & SAN Support

Operating Systems	Version
Windows Server 2012 R2 & 2012 x64 (Windows Storage Server 2012 / 2012 R2) <sup>1</sup>	✓
Windows Server 2008 R2 x64 (Windows Storage Server 2008 R2) <sup>2</sup>	sp1
Windows Server 2008 (x86/x64) <sup>6</sup>	sp2
Servers	Supported
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓
HP StoreEasy Storage <sup>1</sup>	✓
HP E5000 G2 Messaging Systems <sup>2</sup>	✓
Third Party	✓

Adapter	Description	Interface	Firmware 2012 R2	Firmware 2012	Firmware 2008 & 2008 R2	FC StorPort Driver 2012 R2	FC StorPort Driver 2012	FC StorPort Driver 2008 & 2008 R2
81Q (AK344A) & 82Q (AJ764A) & 84Q (P9D91A)	8Gb HP FC HBAs	PCI-e	8.02.00	8.02.00	8.02.00	9.1.17.22	9.1.17.22	9.1.17.22
QLE2560 <sup>3</sup> & QLE2562 <sup>3</sup> & QLE2564 <sup>3</sup>	8Gb Qlogic FC HBAs	PCI-e	8.02.00	8.02.00	8.02.00	9.1.17.22	9.1.17.22	9.1.17.22
81E (AJ762A/B) & 82E (AJ763A/B) & 84E (E7Y63A)	8Gb HP FC HBAs	PCI-e	2.03x6	2.03x6	2.03x6	10.7.110.20	10.7.110.20	10.7.110.20
LPe12000 <sup>3</sup> & LPe12002 <sup>3</sup> & LPe12004 <sup>3</sup>	8Gb Emulex FC HBAs	PCI-e	2.03x6	2.03x6	2.03x6	10.7.110.20	10.7.110.20	10.7.110.20
81B (AP769A/B) <sup>4</sup> & 82B (AP770A/B) <sup>4</sup>	8Gb HP FC HBAs	PCI-e	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0
815 <sup>3,4</sup> & 825 <sup>3,4</sup>	8Gb Brocade FC HBAs	PCI-e	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0
QMH2572 (651281-B21) & QMH2562 (451871-B21)	8Gb HP BladeSystem c-Class FC HBAs	PCI-e	8.02.00	8.02.00	8.02.00	9.1.17.22	9.1.17.22	9.1.17.22
LPe1205A (659818-B21) & LPe1205 (456972-B21)	8Gb HP BladeSystem c-Class FC HBAs	PCI-e	2.03x6	2.03x6	2.03x6	10.7.110.20	10.7.110.20	10.7.110.20
804 (590647-B21) <sup>4</sup>	8Gb HP BladeSystem c-Class FC HBAs	PCI-e	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0	3.2.5.0
FC2142SR (A8002A/B) & FC2242SR (A8003A/B)	4Gb HP FC HBAs	PCI-e	2.82x4	2.82x4	2.82x4	10.7.110.20	10.7.110.20	10.7.110.20
LPe1150 <sup>3</sup> & LPe11002 <sup>3</sup>	4Gb Emulex FC HBAs	PCI-e	2.82x4	2.82x4	2.82x4	10.7.110.20	10.7.110.20	10.7.110.20
FC1142SR (AE311A) & FC1242SR (AE312A)	4Gb HP FC HBAs	PCI-e	8.01.02	8.01.02	8.01.02	9.1.17.22	9.1.17.22	9.1.17.22
QLE2460 <sup>3</sup> & QLE2462 <sup>3</sup>	4Gb Qlogic FC HBAs	PCI-e	8.01.02	8.01.02	8.01.02	9.1.17.22	9.1.17.22	9.1.17.22
41B (AP767A/B) <sup>4</sup> & 42B (AP768A/B) <sup>4</sup>	4Gb HP FC HBAs	PCI-e	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1
415 <sup>3,4</sup> & 425 <sup>3,4</sup>	4Gb Brocade FC HBAs	PCI-e	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1	3.2.3.1
FC2143 (AD167A) & FC2243 (AD168A)	4Gb HP FC HBAs	PCI-X 2.0	2.82x4	2.82x4	2.82x4	10.7.110.20	10.7.110.20	10.7.110.20
LP1150 <sup>3</sup> & LP11002 <sup>3</sup>	4Gb Emulex FC HBAs	PCI-X 2.0	2.82x4	2.82x4	2.82x4	10.7.110.20	10.7.110.20	10.7.110.20
FC1143 (AB429A) & FC1243 (AE369A)	4Gb HP FC HBAs	PCI-X 2.0	8.01.02	8.01.02	8.01.02	9.1.17.22	9.1.17.22	9.1.17.22
QLA2460 <sup>3</sup> & QLA2462 <sup>3</sup>	4Gb QLogic FC HBAs	PCI-X 2.0	8.01.02	8.01.02	8.01.02	9.1.17.22	9.1.17.22	9.1.17.22
LPe1105 (403621-B21)	4Gb HP BladeSystem c-Class FC HBAs	PCI-e	2.82x4	2.82x4	2.82x4	10.7.110.20	10.7.110.20	10.7.110.20
QMH2462 (403619-B21)	4Gb HP BladeSystem c-Class FC HBAs	PCI-e	8.01.02	8.01.02	8.01.02	9.1.17.22	9.1.17.22	9.1.17.22

### Notes:

- Supports HP StoreEasy: 5530, 3830, 3830 Storage Blade, 1830, 1630, 1530, 1430 and 3Par StoreServ File Controller Storage; HP StoreEasy: 3840, 3840 Storage Blade, 1840, 1640, 1540, 1440 and 3Par StoreServ File Controller v2 Storage; HP StoreEasy 1850, 1650 & 1450.
- Supports Messaging Systems E5300, E5500, E5700; HP StoreEasy: 5530, 3830, 3830 Storage Blade, 1830, 1630, 1530, 1430; HP StoreEasy: 3840, 3840 Storage Blade, 1840, 1640, 1540, 1440 and HP Network Storage Systems X5520 G2, X5800sb G2 1, X3800 G2, X3400 G2, X3000 G2, X1800 G2.
- Third Party adapters require HP drivers and firmware.
- Loop mode is now available on the 81B, 82B, 42B, 41B adapters as of v 3.1.2.0, but has not been verified with StoreOnce VTL and StoreEver.
- LTO-6 Advanced path failover & LTO-7 path failover functions with HP E series and Q series FC HBAs. LTO-6 Advanced path failover & LTO-7 path failover is not compatible with Windows Server 2008 x86 or HP B series FC HBAs.
- LTO-7 not supported on Windows Server 2008

# Hewlett Packard Enterprise - StoreEver - Windows (SAS)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers. See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Windows SAS Support

Operating Systems	Version
Windows Server 2012 R2 & 2012 x64 (Windows Storage Server 2012 / 2012 R2) <sup>1</sup>	✓
Windows Server 2008 R2 x64 (Windows Storage Server 2008 R2) <sup>2</sup>	sp1
Windows Server 2008 (x86/x64) <sup>7</sup>	sp2

Servers	Supported
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓
HP StoreEasy Storage <sup>1</sup>	✓
HP E5000 G2 Messaging Systems <sup>2</sup>	✓
Third Party (Only Supported with Third Party Adapters)	✓

Adapter	Description	Interface	Firmware	Driver 2012 R2	Driver 2012	2008 & 2008 R2 x64	Driver 2008 x86
P841, P441, P440ar <sup>3</sup> , H241, H240 <sup>3</sup> , H240ar <sup>3</sup>	12Gb HP SAS Smart Array Controllers	PCI-e	3.56 (B)	63.12.0.64	63.12.0.64	6.12.0.64	
P830 <sup>3</sup> , P430 <sup>3</sup> & P431	12Gb HP SAS Smart Array Controllers	PCI-e	3.02	63.12.0.64	63.12.0.64	6.12.0.64	6.4.0.32
P822, P222 <sup>9</sup> , P420 <sup>5</sup> & P421	6Gb HP SAS Smart Array Controllers	PCI-e	7.02	63.12.0.64	63.12.0.64	6.12.0.64	6.4.0.32
H220 <sup>3</sup> , H221 & H222	6Gb HP HBA	PCI-e	15.10.09.00	2.68.64.0	2.68.64.0	2.68.64.0	2.68.64.0
P812, P212 <sup>8,9,10</sup> , P410 <sup>5</sup> & P411	6Gb HP SAS Smart Array Controllers	PCI-e	6.64 (B)	62.28.0.64 C	62.28.0.64 C	62.28.0.64 C	6.28.0.32
P741m (BL Generation 9 servers only)	6Gb HP BladeSystem c-Class SAS Smart Array Controller	PCI-e	3.56 (B)	63.12.0.64	63.12.0.64	63.12.0.64	
P731m (BL Generation 8 servers only)	6Gb HP BladeSystem c-Class SAS Smart Array Controller	PCI-e	3.02	63.12.0.64	63.12.0.64	63.12.0.64	6.4.0.32
P721m (BL Generation 8 servers only)	6Gb HP BladeSystem c-Class SAS Smart Array Controller	PCI-e	7.02	63.12.0.64	63.12.0.64	63.12.0.64	6.4.0.32
P711m & P712m	6Gb HP BladeSystem c-Class SAS Smart Array Controller	PCI-e	6.64 (B)	62.28.0.64 C	62.28.0.64 C	62.28.0.64 C	6.28.0.32

## Adapters Supported on 3rd Party Servers

Third Party Adapters <sup>6</sup>	Description	Interface	Firmware	Driver 2012 R2	Driver 2012	Driver 2008 & 2008 R2 x64	Driver 2008 & 2008 R2 x86
Avago LSI 9217-4i4e (equivalent OEM HBA running chipset LSI SAS2308)	6Gb HBA	PCI-e	20.00.04.00	2.00.76.00	2.00.76.00	2.00.76.00	2.00.76.00

### Notes:

- Supports HP StoreEasy: 5530, 3830, 3830 Storage Blade, 1830, 1630, 1530, 1430 and 3PAR StoreServ File Controller Storage; HP StoreEasy: 3840, 3840 Storage Blade, 1840, 1640, 1540, 1440 and 3PAR StoreServ File Controller v2 Storage; HP StoreEasy 1850, 1650 & 1450.
- Supports Messaging Systems E5300, E5500, E5700; HP StoreEasy: 5530, 3830, 3830 Storage Blade, 1830, 1630, 1530, 1430; HP StoreEasy: 3840, 3840 Storage Blade, 1840, 1640, 1540, 1440 and HP Network Storage Systems X5520 G2, X3800sb G2 1, X3800 G2, X3400 G2, X3000 G2, X1800 G2
- Only supported with internal tape drives.
- Supported on Windows 2012, there are no plans to support Windows 2012 R2.
- SAS Expander card 468406-B21 is required to connect external tape.
- See server manufacture's compatibility documentation to confirm support.
- LTO-7 not supported on Windows Server 2008
- For block sizes larger than 64KB order cached version of P212 card ( Part # 462834-B21). Zero memory version of P212 not recommended for tape.
- StoreOpen Standalone & StoreOpen Automation are not supported with P212/Zero Memory Smart Array Controller. P212/256 (Part # 462834-B21) is supported.
- StoreOpen Standalone does not support P222 and P212 Smart Array Controllers on x86 Windows Operating system

# Hewlett Packard Enterprise - StoreEver - Windows (SAS for Workstations)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers. See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Windows SAS Support for Workstations

### Operating Systems <sup>1</sup>

	Version
Windows 10	
Windows 8.1	✓
Windows 8	✓
Windows 7 (x64) Pro	✓

### Workstations

	Supported
HP Z Workstations	✓

HP Inc. Adapters	Workstations Supported On	Integrated	Firmware	Windows 8.1 Driver	Windows 8 Driver	Windows 7 (x64) Pro
LSI 2308 Controller (Integrated)	Z840, Z820	✓	P18110 A	2.00.69.05 A	2.00.69.05 A	2.00.69.05 L
LSI 9270-8i (EOX21AA)	Z840, Z820, Z640, Z620, Z440, Z420		3.340.25	6.702.08.00 A	6.702.08.00 A	6.702.08.00 F
LSI 9217-4i4e (EOX20AA)	Z640, Z440, Z620, Z420		18.00.00.00 A	2.00.69.05 A	2.00.69.05 A	2.00.69.05 A
LSI 1068e (Integrated)	Z800	✓	1.25.03.00	1.25.03.00	In Box	In Box
LSI MegaRAID 9260-8i (WE465AA)	Z800, Z600, Z400		2038 Rev A		5.2.135.64 Rev A	5.2.135.64 Rev A
LSI 9212-4i (XP310AA)	Z600, Z400		14.00.01.00 Rev. A	2.00.58.02 Rev. A	2.00.58.02 Rev. A	2.00.58.01 Rev. B

#### Notes:

1. Listed Operating Systems Supported on HP Workstations only

# Hewlett Packard Enterprise - StoreEver - Linux (Converged Network Adapters)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers.

See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Linux <sup>2</sup> Direct Attached & SAN Support

Operating Systems	Version					
RHEL 7 [AS/ES] (x64) <sup>1</sup>	7.2 <sup>4</sup>					
RHEL 6 [AS/ES] (x86/x64) <sup>1</sup>	6.7					
SLES 12 (x64)	12.1					
SLES 11 (x86/x64)	11.4					
Servers	Supported					
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓					
Third Party	✓					
Converged Network Adapters	Description	Interface	FW	FC driver	iSCSI Driver	NIC Driver
630FLB (700065-B21) <sup>5</sup> & 630M (700076-B21) <sup>5</sup>	20GbE HP BladeSystem CNAs	PCI-e	7.13.3	7.13.04-1	2.11.4.0-2 RHEL 6: 10.7.110.20-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.20-1	7.13.04.1 RHEL 6: 10.7.110.29-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.29-1
650FLB (700763-B21) & 650M (700767-B21)	20GbE HP BladeSystem CNAs	PCI-e	10.7.110.34	10.7.110.34	SLES 12: 10.7.110.34-1	ELS 12: 10.7.110.34-1
CN1000E (AW520A)	10 GbE HP CNA	PCI-e			iSCSI support only RHEL 6: 8.07.00.34.06.0-k1 RHEL 7: 8.07.00.34.07.0-k1 SLES 11: 8.07.00.34.11.3-k	RHEL 6: 5.3.62.1-5 RHEL 7: 5.3.62.1-2 SLES 11: 5.3.62.1-5
CN1000Q (BS668A) & 526FLR (629138-B21)	10 GbE HP CNAs		4.20.1 <sup>3</sup>		SLES 12: 8.07.00.29.34.0-k 5.04.01.12.00.00-2	SLES 12: 5.3.62.1-2(B)
CN1200E (E7Y06A) & 556FLR (FlexibleLOM, 727060-B21)	10 GbE HP CNAs		10.7.110.34	10.7.110.34	RHEL 6: 10.7.110.20-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.20-1 SLES 12: 10.7.110.34-1	RHEL 6: 10.7.110.29-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.29-1 ELS 12: 10.7.110.34-1
CN1100E (BK835A) & 554FLR (629142-B21)	10 GbE HP CNAs		10.7.110.34	10.7.110.34	RHEL 6: 10.7.110.20-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.20-1 SLES 12: 10.7.110.34-1	RHEL 6: 10.7.110.29-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.29-1 ELS 12: 10.7.110.34-1
CN1100R (QW990A) <sup>5</sup> & 534FLR (700751-B21) <sup>5</sup>	10 GbE HP CNAs		7.13.3	7.13.04-1	2.11.4.0-2	7.13.04.1
NC551m (580151-B21) & NC551i	10 GbE HP BladeSystem CNAs	PCI-e			iSCSI support only RHEL 6: 10.7.110.20-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.20-1	RHEL 6: 10.7.110.29-1 RHEL 7: 10.7.110.34-1 SLES 11: 10.7.110.29-1
NC553m (613431-B21) & NC553i & 554M (647590-B21) & 554FLB & (647586-B21) & 556FLR (727060-B21)	10 GbE HP BladeSystem CNAs	PCI-e	10.7.110.34	10.7.110.34	SLES 12: 10.7.110.34-1	ELS 12: 10.7.110.34-1
534FLB (700741-B21) <sup>5</sup> & 534M (700748-B21) <sup>5</sup> & 536FLB (766490-B21) <sup>5</sup>	10 GbE HP BladeSystem CNAs		7.13.3	7.13.04-1	2.11.4.0-2	7.13.04.1

### Notes:

1. RHEL kernel versions include support for Oracle Enterprise Linux (OEL) with Red-Compatible Kernel (RHCK).
2. Advanced path failover functions with HP E series and Q series FC HBAs on supported versions of RHEL. Advanced path failover is not compatible with SLES or HP B series FC HBAs.
3. Minimum FW required for FCoE support.
4. SCSI generic (sg) driver may not load automatically on boot. If this happens issuing the modprob sg command will create the sg & st device files.
5. Supported block sizes up to 256K only.



# Hewlett Packard Enterprise - StoreEver - Linux (Fibre Channel Adapters)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers.

See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Linux <sup>2</sup> Direct Attached & SAN Support

Operating Systems	Version
RHEL 7 [AS/ES] (x64) <sup>1</sup>	7.2 <sup>5</sup>
RHEL 6 [AS/ES] (x86/x64) <sup>1</sup>	6.7
SLES 12 (x64)	12.1
SLES 11 (x86/x64)	11.4

Servers	Supported
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓
HP Integrity Superdome X (BL920s Gen9 Only)	✓
Third Party	✓

FC Host Bus Adapters (Part Number)	Description	Interface	Firmware	RHEL 7 Driver	RHEL 6 Driver	SLES 12 Driver	SLES 11 Driver
SN1100Q (P9D93A & P9D94A) <sup>6</sup>	16Gb HP FC HBAs	PCI-e	8.03.05	8.07.00.34.06.0-k1	8.07.00.34.07.0-k1	8.07.00.34.11.3-k	8.07.00.34.12.0-k1
SN1000Q (QW971A & QW972A) <sup>6</sup>	16Gb HP FC HBAs	PCI-e	8.02.00	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k1	8.07.00.34.11.3-k
SN1100E (C8R38A & C8R39A)	16Gb HP FC HBAs	PCI-e	10.7.110.31	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
SN1000E (QR558A/QR559A)	16Gb HP FC HBAs	PCI-e	10.7.110.31	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
LPe1605 (718203-B21)	16Gb HP BladeSystem c-Class FC HBAs	PCI-e	10.7.110.31	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
QMH2672 (710608-B21)	16Gb HP BladeSystem c-Class FC HBAs	PCI-e	8.02.00	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k1	8.07.00.34.11.3-k
81Q (AK344A) & 82Q (AJ764A) & 84Q (P9D91A)	8Gb HP FC HBAs	PCI-e	8.02.00	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k1	8.07.00.34.11.3-k
QLE2560 <sup>3</sup> & QLE2562 <sup>3</sup> & QLE2564 <sup>3</sup>	8Gb QLogic FC HBAs	PCI-e	8.02.00	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k1	8.07.00.34.11.3-k
81E (AJ762A/B) & 82E (AJ763A/B) & 84E (E7Y63A)	8Gb HP FC HBAs	PCI-e	2.03x6	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
LPe12000 <sup>3</sup> & LPe12002 <sup>3</sup> & LPe12004 <sup>3</sup>	8Gb Emulex FC HBAs	PCI-e	2.03x6	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
81B (AP769A & AP769B) & 82B (AP770A & AP770B)	8Gb HP FC HBAs	PCI-e	3.2.5.0 (SLES 11.3: 3.2.1.0)	RHEL 7.0: 3.2.5.0	3.2.5.0	3.2.5.0	SLES 11.3: 3.2.1.0
815 <sup>3</sup> & 825 <sup>3</sup>	8Gb Brocade FC HBAs	PCI-e	3.2.5.0 (SLES 11.3: 3.2.1.0)	RHEL 7.0: 3.2.5.0	3.2.5.0	3.2.5.0	SLES 11.3: 3.2.1.0
QMH2572 (651281-B21) & QMH2562 (451871-B21)	8Gb HP BladeSystem c-Class FC HBAs	PCI-e	8.02.00	8.07.00.34.07.0-k1	8.07.00.34.06.0-k1	8.07.00.34.12.0-k	8.07.00.34.11.3-k
LPe1205A (659818-B21)	8Gb HP BladeSystem c-Class FC HBA	PCI-e	2.03x6	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
LPe1205 (456972-B21)	8Gb HP BladeSystem c-Class FC HBA	PCI-e	2.03x6	10.7.110.34	10.7.110.34	10.7.110.34	10.7.110.34
804 (590647-B21)	8Gb HP BladeSystem c-Class FC HBA	PCI-e	3.2.5.0 (SLES 11.3: 3.2.1.0)	RHEL 7.0: 3.2.5.0	3.2.5.0	3.2.5.0	SLES 11.3: 3.2.1.0

### Notes:

1. RHEL kernel versions include support for Oracle Enterprise Linux (OEL) with Red-Compatible Kernel (RHCK).
2. Advanced path failover functions with HP E-series and Q-series FC HBAs on supported versions of RHEL. Advanced path failover is not compatible with SLES or HP B-series FC HBAs.
3. Third Party adapters require HPE drivers and firmware.
4. Loop mode is now available on the 81B, 82B, 42B, 41B adapters as of v 3.1.2.0, but has not been verified with StoreOnce VTL and StoreEver.
5. SCSI generic (sg) driver may not load automatically on boot. If this happens issuing the modprob sg command will create the sg & st device files.
6. Not supported in non-fabric mode with HP LTO drives when Speed=Auto. A fixed speed must be selected.

# Hewlett Packard Enterprise - StoreEver - Linux (Fibre Channel Network Adapters)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers.

See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Linux <sup>5</sup> Direct Attached & SAN Support

Operating Systems	Version
RHEL 7 [AS/ES] (x64) <sup>1</sup>	7.2 <sup>2</sup>
RHEL 6 [AS/ES] (x86/x64) <sup>1</sup>	6.7
SLES 12 (x64)	12.1
SLES 11 (x86/x64)	11.4

Servers	Supported
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓
Third Party	✓

FC Host Bus Adapters (Part Number)	Description	Interface	Firmware	RHEL 7 Driver	RHEL 6 Driver	SLES 12 Driver	SLES 11 Driver
FC1142SR (AE311A) & FC1242SR (AE312A)	4Gb HP FC HBAs	PCI-e	8.01.02		8.07.00.34.06.0-k1		8.07.00.34.11.3-k
QLE2460 <sup>3</sup> & QLE2462 <sup>3</sup>	4Gb QLogic FC HBAs	PCI-e	8.01.02		8.07.00.34.06.0-k1		8.07.00.34.11.3-k
FC2142SR (A8002A) & FC2242SR (A8003A)	4Gb HP FC HBAs	PCI-e	2.82x4		10.7.110.34		10.7.110.34
LPe1150 <sup>3</sup> & LPe11002 <sup>3</sup>	4Gb Emulex FC HBAs	PCI-e	2.82x4		10.7.110.34		10.7.110.34
41B (AP767A/B) <sup>4</sup> & 42B (AP768A/B) <sup>4</sup>	4Gb HP FC HBAs	PCI-e	3.2.1.0		3.2.1.0		3.2.1.0
415 <sup>3,4</sup> & 425 <sup>3,4</sup>	4Gb Brocade FC HBAs	PCI-e	3.2.1.0		3.2.1.0		3.2.1.0
FC1143 (AB429A) & FC1243 (AE369A)	4Gb HP FC HBAs	PCI-X 2.0	8.01.02		8.07.00.34.06.0-k1		8.07.00.34.11.3-k
QLA2460 <sup>3</sup> & QLA2462 <sup>3</sup>	4Gb QLogic FC HBAs	PCI-X 2.0	8.01.02		8.07.00.34.06.0-k1		8.07.00.34.11.3-k
FC2143 (AD167A) & FC2243 (AD168A)	4Gb HP FC HBAs	PCI-X 2.0	2.82x4		10.7.110.34		10.7.110.34
LP1150 <sup>3</sup> & LP11002 <sup>3</sup>	4Gb Emulex FC HBAs	PCI-X 2.0	2.82x4		10.7.110.34		10.7.110.34
LPe1105 (403621-B21)	4Gb HP BladeSystem c-Class FC HBA	PCI-e	2.82x4		10.5.152.1		10.5.158.0
QMH2462 (403619-B21)	4Gb HP BladeSystem c-Class FC HBA	PCI-e	8.01.02		8.07.00.34.06.0-k1		8.07.00.34.11.3-k

### Notes:

1. RHEL kernel versions include support for Oracle Enterprise Linux (OEL) with Red-Compatible Kernel (RHCK).
2. SCSI generic (sg) driver may not load automatically on boot. If this happens issuing the modprob sg command will create the sg & st device files.
3. Third Party adapters require HPE drivers and firmware.
4. Loop mode is now available on the 81B, 82B, 42B, 41B adapters as of v 3.1.2.0, but has not been verified with StoreOnce VTL and StoreEver.
5. Advanced path failover functions with HP E-series and Q-series FC HBAs on supported versions of RHEL. Advanced path failover is not compatible with SLES or HP B-series FC HBAs.

# Hewlett Packard Enterprise - StoreEver - Linux (SAS Network Adapters)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers.

See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Linux Direct Attached & SAN Support

Operating Systems	Version
RHEL 7 [AS/ES] x64 <sup>1</sup>	7.2 <sup>6</sup>
RHEL 6 [AS/ES] (x86/x64) <sup>1</sup>	6.7
SLES 12 (x64)	12.1
SLES 11 (x86/x64)	11.4

Servers	Supported
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓
Third Party (Only Supported with Third Party Adapters)	✓

SAS Host Bus Adapters	Description	Interface	Firmware	RHEL 7 Driver	RHEL 6 Driver	SLES 12 Driver	SLES 11 Driver
P841, P441, P440ar, H241, H240 & H240ar	12Gb HP SAS Smart Array Controllers	PCI-e	3.56	3.4.14-116	3.4.14-115	3.4.14-117	3.4.14-116
P830, P430 & P431	12Gb HP SAS Smart Array Controllers	PCI-e	3.02	3.4.14-116	3.4.14-115	3.4.14-117	3.4.14-116
P822, P222, P420 <sup>2</sup> & P421	6Gb HP SAS Smart Array Controllers	PCI-e	7.02	3.4.14-116	3.4.14-115	3.4.14-117	3.4.14-116
H220, H221 & H222	6Gb HP Host Bus Adapters	PCI-e	15.10.09.00 (B)	15.10.04.00-8	15.10.04.00-6		15.10.04.00-5
P812, P212 <sup>4,5,9</sup> P410 <sup>2</sup> & P411	6Gb HP SAS Smart Array Controllers	PCI-e	6.64 (B)		3.4.14-115		4.6.28-24 (A) <sup>7</sup>
P741m (for BL Gen9 servers only)	6Gb HP BladeSystem c-Class SAS Smart Array Controller	PCI-e	3.56 (B)	3.4.14-116	3.4.14-115	3.4.14-117	3.4.14-116
P731m (for BL Gen8 servers only)	6Gb HP BladeSystem c-Class SAS Smart Array Controller	PCI-e	3.02	3.4.14-116	3.4.14-115	3.4.14-117	3.4.14-116
P721m (for BL Gen8 servers only)	6Gb HP BladeSystem c-Class SAS Smart Array Controller	PCI-e	7.02	3.4.14-116	3.4.14-115	3.4.14-117	3.4.14-116
P711m & P712m	6Gb HP BladeSystem c-Class SAS Smart Array Controller	PCI-e	6.64 (B)		3.4.14-115		4.6.28-24 (A)

Third Party Host Bus Adapters <sup>3</sup>	Description	Interface	Firmware	RHEL 6 Driver	RHEL 7 Driver	SLES 11 Driver	SLES 12 Driver
Avago LSI 9217-4i4e (Equivalent OEM HBA running chipset LSI SAS2308)	6Gb Host Bus Adapter for Third-Party Servers	PCI-e	20.00.04.00	20.00.00.00-1 <sup>8</sup>	20.00.00.00-1	20.00.00.00-1	

### Notes:

1. RHEL kernel versions include support for Oracle Enterprise Linux (OEL).
2. SAS Expander card 468406-B21 is required to connect external tape.
3. See server manufacture's compatibility documentation to confirm support.
4. For block sizes larger than 64KB order cached version of P212 card ( Part # 462834-B21 ). Zero memory version of P212 not recommended for tape.
5. IBM TSM and EMC NetWorker: P212 Zero Memory HBA supported with v7.6.1.1 or later. For NetWorker 7.5.4, supported with v7.5.4.6 or later.
6. SCSI generic (sg) driver may not load automatically on boot. If this happens issuing the modprob sg command will create the sg & st device files.
7. Supported with SLES 11.3 Driver
8. Only supported up to RHEL 6.5
9. StoreOpen Standalone & StoreOpen Automation are not supported with P212/Zero Memory Smart Array Controller. P212/256 (Part # 462834-B21) is supported.

# Hewlett Packard Enterprise - StoreEver - Linux (SAS for Workstations)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. Consult the individual Server QuickSpec for supported storage controllers. See the [HPE Servers Support & Certification Matrices](#) website for server & operating systems support details.

## Windows SAS Support for Workstations

### Operating Systems <sup>1</sup>

Operating Systems	Version
RHEL 7 [Workstation] (x64)	7.1
RHEL 6 [Workstation] (x86/x64)	6.7
SLED 11 (x86/x64)	11.4
SLED 12 (x64)	12.0

### Workstations

Workstations	Supported
HP Z Workstations	✓

HP Inc. Adapters	Workstations Supported On	Integrated	Firmware	RHEL 7 Driver	RHEL 6 Driver	SLED 12 Driver	SLED 11 Driver
LSI 2308 Controller (Integrated)	Z840, Z820	✓	P18110 A	3.4.4-1-RH1	3.4.4-1-RH4	3.4.10-0	3.4.4-1-RH2
LSI 9270-8i (E0X21AA)	Z840, Z820, Z640, Z620, Z440, Z420		3.340.25	In-box	In-box	In-box	In-box
LSI 9217-4i4e (E0X20AA)	Z640, Z440, Z620, Z420		20.00.04.00	3.4.4-1-RH1	3.4.4-1-RH4	3.4.10-0	3.4.8-1
LSI 1068e (Integrated)	Z800	✓	1.25.03.00	Not Supported	3.4.2-RH5	Not Supported	3.2.0
LSI MegaRAID 9260-8i (WE465AA)	Z800, Z600, Z400		2038 Rev A	Not Supported	In-box <sup>2</sup>	Not Supported	In-box <sup>3</sup>
LSI 9212-4i (XP310AA)	Z600, Z400		14.00.01.00 Rev. A	Not Supported	In-box <sup>2</sup>	Not Supported	In-box <sup>3</sup>

#### Notes:

1. Listed Operating Systems Supported on HP Workstations only
2. Supported to RHEL 6.4 only
3. Supported to SLED 11.3 only

# Hewlett Packard Enterprise - StoreEver - Apple OS X Support

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details.

Operating Systems	Version
OS X <sup>1</sup>	10.7 through 10.11

Servers	Supported
Apple Mac Pro G6	✓ <sup>1</sup>
Apple Mac Pro G5	✓ <sup>1</sup>

Adapter	Description	Interface	Supported Operating Systems	Microcode (FW)
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OS X Adapter support is provided by our partner Attotech.com. Please consult their IOP / Certification website to see what is supported with HPE Tape libraries and drives. <https://www.attotech.com/support/interoperability/><sup>2</sup>

## Notes:

1. OS X support is provided by our partner Attotech.com. Please consult their IOP / Certification website to see what is supported with HPE Tape libraries and drives. <https://www.attotech.com/support/interoperability/>.
2. Not supported with ATTO multipath drivers.

# Hewlett Packard Enterprise - StoreEver - Solaris

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details.  
See the [HPE Servers Support & Certification Matrices](#) website for server / operating systems support details.

## Solaris Direct Attached & SAN Support

### Operating Systems

	Version
Solaris 11 (x64)	Update 2
Solaris 11 SPARC	Update 2
Solaris 10 (x86/x64) <sup>4</sup>	Update 11
Solaris 10 SPARC	Update 11

### Servers

	Supported
Oracle SPARC	✓
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓

Adapter Name (Part number)	Description	Interface	Firmware	Driver
CN1000E (AW520A)	10GbE HP Converged Network Adapters <sup>2,9</sup>	PCI-e	iSCSI support only	
CN1100E (BK835A)	10GbE HP Converged Network Adapters <sup>2</sup>	PCI-e	iSCSI support only	
NC551m (580151-B21) & NC551i	10GbE HP BladeSystem Converged Network Adapters <sup>2</sup>	PCI-e	iSCSI support only	
NC553m (613431-B21) / NC553i / 554FLR (629142-B21) / 554M (647590-B21) / 554FLB (647586-B21)	10GbE HP BladeSystem Converged Network Adapters <sup>2</sup>	PCI-e	iSCSI support only	
SG-XPCIE1FC-EM8-Z / SG-XPCIE2FC-EM8-Z & Emulex LPe12000 / LPe12002 & 81E (AJ762A & AJ762B) / 82E (AJ763A & AJ763B)	8Gb Fibre Channel Host Bus Adapters <sup>2</sup>	PCI-e	1.1.60.1	2.90.15.0
SG-XPCIE1FC-QF8-Z / SG-XPCIE2FC-QF8-Z & QLogic QLE2560 / QLE2562 & 81Q (AK344A) / 82Q (AJ764A)	8Gb Fibre Channel Host Bus Adapters <sup>2</sup>	PCI-e	6.06.03	20140211-5.00
SG-XPCIE1FC-EM4 / SG-XPCIE2FC-EM4 & Emulex LPe11000 / LPe11002 & FC2142SR (A8002A) & FC2242SR (A8003A) <sup>5</sup>	4Gb Fibre Channel Host Bus Adapters <sup>2,5</sup>	PCI-e		Native
NC551m (580151-B21) & NC551i	4Gb Fibre Channel Host Bus Adapters <sup>2</sup>	PCI-e		Native
SG-XPCI1FC-EM4-Z / SG-XPCI2FC-EM4-Z & Emulex LP11000 / LP11002 & FC2143 (AD167A) & FC2243 (AD168A)	4Gb Fibre Channel Host Bus Adapters <sup>2,5</sup>	PCI-X 2.0		Native
SG-XPCI1FC-QF4 / SG-XPCI2FC-QF4 & QLogic QLA2460 / QLA2462 & FC1143 (AB429A) & FC1243 (AE369A)	4Gb Fibre Channel Host Bus Adapters <sup>2</sup>	PCI-X 2.0		Native
SG-XPCIE2FCGBE-E-Z	4Gb Fibre Channel Host Bus Adapters <sup>1,2</sup>	PCI-e		Native
LPe1105 (403621-B21)	4Gb HP BladeSystem c-Class Fibre Channel HBA <sup>2,3</sup>	PCI-e		Native
QMH2462 (403619-B21)	4Gb HP BladeSystem c-Class Fibre Channel HBA <sup>2,3</sup>	PCI-e		Native

#### Notes:

1. Supported with Solaris 10 on Oracle Sun Blade platform only.
2. HP branded HBAs supported on ProLiant only.
3. Supported with Solaris 10 x86/x64 only.
4. Supported with Solaris 10 x64 only. (AMD64 and Intel EM64T)
5. Supported with Solaris 10.x only.

# Hewlett Packard Enterprise - StoreEver - Solaris (SAS)

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details. See the [HPE Servers Support & Certification Matrices](#) website for server / operating systems support details.

## Solaris Direct Attached & SAN Support

### Operating Systems

	Version
Solaris 11 (x64)	Update 2
Solaris 11 SPARC	Update 2
Solaris 10 (x86/x64) <sup>1</sup>	Update 11
Solaris 10 SPARC	Update 11

### Servers

	Supported
Oracle SPARC	✓
HP ProLiant DL, ML & HP ProLiant BladeSystem c-Class	✓

Adapter Name (Part number)	Description	Interface	Supported
P711m	6Gb SAS 8-Channel Host Bus Adapters and Controllers	PCI-e	✓
P712m	6Gb SAS 6-Channel Host Bus Adapters and Controllers	PCI-e	✓
LSI 9212-4i4e	6Gb SAS 8-Channel Host Bus Adapters and Controllers <sup>2,3</sup>	PCI-e	✓
P212 <sup>6</sup> , P410, P411 & P700m	3Gb SAS 8-Channel Host Bus Adapters and Controllers <sup>5</sup>	PCI-e	✓
SG-XPCIE8SAS-E-Z	3Gb SAS 8-Channel Host Bus Adapters and Controllers <sup>4</sup>	PCI-e	✓
SG-XPCI8SAS-E-Z	3Gb SAS 8-Channel Host Bus Adapters and Controllers <sup>4</sup>	PCI-X	✓

#### Notes:

- Supported with Solaris 10 x64 only. (AMD64 and Intel EM64T)
- Supported with Solaris 10.x only.
- SAS supported for Solaris SPARC/x64 with NWR 8.1 or later.
- Support for Oracle servers only.
- Supported with Solaris 10 x64 Update 8 (10/09) or newer with MSL SAS direct attach.
- For block sizes larger than 64KB order cached version of P212 card ( Part # 462834-B21). Zero memory version of P212 not recommended for tape.

# Hewlett Packard Enterprise - StoreEver - AIX, PowerVM Support

IMPORTANT: Consult your ISV/IHV vendor's compatibility guides ([Compatibility Links Page](#)) to confirm product & OS version support details.  
 Consult IBM's [System Storage Interoperation Center](#) to verify adapter support for specific servers.

## AIX (Power) Direct Attached & SAN Support

Operating Systems	Version
AIX <sup>1,2,3,4</sup>	V6.1.9, V7.1.3 and higher (Atape Driver: 12.10.7.0 Minimum Level Required)
PowerVM	V2.2.3.2 and higher

Servers	Supported
IBM Power 6, 7, 8 Servers	✓

Adapter	Description	Interface	Supported Operating Systems	AIX Microcode (FW)
IBM EN0H & EN0J	10GbE IBM CNAs	PCI-e2	AIX	00010000020025201913
IBM 5708	10GbE IBM CNA	PCI-e2	AIX	020117
IBM EN0A & EN0B	16Gb IBM Single & Dual Port HBAs	PCI-e2	PowerVM, AIX	00010000020025201905
IBM EN0Y	8Gb IBM Quad Port HBA	PCI-e2	PowerVM, AIX	0320080200
IBM 5729, 5273 & 5735	8Gb IBM Single, Dual & Quad Port HBA: PCI-e	PCI-e	PowerVM, AIX	203305
IBM 5773 & 5774	4Gb IBM Single & Dual Port HBAs	PCI-e	PowerVM, AIX	271315
IBM 1905 & 5758	4Gb IBM HBAs	PCI-X 2.0	PowerVM, AIX	271304
IBM 5759	4Gb IBM HBA	PCI-X 2.0	PowerVM, AIX	271310

### Notes:

1. DataProtector: Robot control is not supported for Physical or Virtual HP Tape Devices.
2. For HPE Tape Devices preceding Ultrium LTO-7, Robot control must be on a different OS-platform, other than AIX, for all ISVs other than IBM Spectrum Protect.
3. For HPE Ultrium LTO-7 Single-Path Support, IBM Tape Device Driver version 12.10.7.0, or higher is required.
4. For HPE Ultrium LTO-7 Multi-Path Support, IBM Atape version 13.0.1.0, or higher is required in addition to the HPE StoreEver LTO-7 Tape Library Multi-Path Failover License.



# Hewlett Packard Enterprise - StoreEver - OpenVMS Server & Storage Networking Support 1 of 4

IMPORTANT: Support for OpenVMS is independent from the entirety of the HP Data Agile Compatibility Matrix.

## OpenVMS Rackmount Server Adapter Compatibility

8Gb Fibre Channel Host Bus Adapters		rx 2620	rx 2660	rx 3600	rx 4640	rx 6600	rx 7620	rx 7640	rx 8620	rx 8640	Super dome sx1000	Super dome sx2000	rx 2800 i2	rx 2800 i4	OpenVMS V8.4	OpenVMS V8.31h1 <sup>1</sup>
<b>AH400A</b>	HP PCIe 1-port 8Gb FC (QLogic)		✓	✓		✓		✓		✓	✓	✓	✓		VMS84I_UPDATE-V0100	
<b>AH401A</b>	HP PCIe 2-port 8Gb FC (QLogic)		✓	✓		✓		✓		✓	✓	✓	✓		VMS84I_UPDATE-V0100	
4Gb Fibre Channel Host Bus Adapters		rx 2620	rx 2660	rx 3600	rx 4640	rx 6600	rx 7620	rx 7640	rx 8620	rx 8640	Super dome sx1000	Super dome sx2000	rx 2800 i2	rx 2800 i4	OpenVMS V8.4	OpenVMS V8.31h1 <sup>1</sup>
<b>AD300A</b>	HP PCIe 2-port 4Gb FC (Qlogic)		✓	✓		✓		✓		✓	✓	✓	✓		VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AD299A</b>	HP PCIe 1-port 4Gb FC (Emulex)		✓	✓		✓		✓		✓	✓	✓	✓		VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AD355A</b>	HP PCIe 2-port 4Gb FC (Emulex)		✓	✓		✓		✓		✓	✓	✓	✓		VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AB379B</b>	HP PCI-X 2-port 4Gb FC(Qlogic)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AB378B</b>	HP PCI-X 1-port 4Gb FC(Qlogic)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AB379A</b>	HP PCI-X 2-port 4Gb FC(Qlogic)			✓		✓	✓	✓	✓	✓	✓	✓	✓		VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AB378A</b>	HP PCI-X 1-port 4Gb FC(Qlogic)			✓		✓	✓	✓	✓	✓	✓	✓	✓		VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200

Notes:

1. OpenVMS v8.3 and v8.3-1H1 goes out of Standard Support 31-Dec-2015. These versions will be on PriorVersionSupport w/o Sustained Engg (PVS w/o SE) till 31-Dec-2018.

# Hewlett Packard Enterprise - StoreEver - OpenVMS Server & Storage Networking Support 2 of 4

IMPORTANT: Support for OpenVMS is independent from the entirety of the HP Data Agile Compatibility Matrix.

## OpenVMS Rackmount Server Adapter Compatibility

Multi-function Adapters (Storage/LAN)		rx 2620	rx 2660	rx 3600	rx 4640	rx 6600	rx 7620	rx 7640	rx 8620	rx 8640	Super dome sx1000	Super dome sx2000	rx 2800 i2	rx 2800 i4	OpenVMS V8.4	OpenVMS V8.31h1 <sup>1</sup>
<b>AD393A</b>	HP PCIe 2-port 4Gb FC(Emulex) and 2-Port 1000BSX Adapter		✓	✓		✓		✓		✓	✓	✓	✓		VMS84I_UPDATE-V0100	
<b>AD222A</b>	HP PCIe 2-port 4Gb FC(Emulex) and 2-Port 1000BT Adapter		✓	✓		✓		✓		✓	✓	✓	✓		VMS84I_UPDATE-V0100	
<b>AD221A</b>	HP PCIe 1-port 4Gb FC(Emulex) and 1-Port 1000BT Adapter		✓	✓		✓		✓		✓	✓	✓	✓		VMS84I_UPDATE-V0100	
<b>AD194A</b>	HP PCI-X 2-port 4Gb FC(Qlogic)/2-port GigE Adapter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AD193A</b>	HP PCI-X 1-port 4Gb FC(Qlogic)/1-port GigE Adapter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>A9782A</b>	HP PCI-X 1-port 2Gb FC(Qlogic)/1000 Base-SX Adapter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>A9784A</b>	HP PCI-X 2-port 2Gb FC(Qlogic)/1000 Base-SX Adapter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AB465A</b>	HP PCI-X 2-port 2Gb FC(Qlogic)/2-port 1000 Base-T Adapter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200

Notes:

1. OpenVMS v8.3 and v8.3-1H1 goes out of Standard Support 31-Dec-2015. These versions will be on PriorVersionSupport w/o Sustained Engg (PVS w/o SE) till 31-Dec-2018.

# Hewlett Packard Enterprise - StoreEver - OpenVMS Server & Storage Networking Support 3 of 4

IMPORTANT: Support for OpenVMS is independent from the entirety of the HP Data Agile Compatibility Matrix.

## OpenVMS Rackmount Server Adapter Compatibility

SAS Host Bus Adapters	rx 2620	rx 2660	rx 3600	rx 4640	rx 6600	rx 7620	rx 7640	rx 8620	rx 8640	Super dome sx1000	Super dome sx2000	rx 2800 i2	rx 2800 i4	OpenVMS V8.4	OpenVMS V8.31h1 <sup>1</sup>
<b>AM312A</b> HP PCIe Smart Array P812/1GB 6Gb 4-port SAS Controller			✓		✓							✓		VMS84I_UPDATE-V0600	
<b>AM311A</b> HP PCIe Smart Array P411/256MB 6Gb 2-port SAS adapter		✓	✓		✓					✓	✓	✓		VMS84I_UPDATE-V0500	
<b>462862-B21</b> HP rx2800 i2 Embedded SAS 512MB Cache 6Gb 2-port HBA			✓		✓							✓ (AM252A)		VMS84I_UPDATE-V0500	
<b>462864-B21</b> HP rx2800 i2 Embedded SAS 512MB Cache 6Gb 2-port HBA			✓		✓							✓ (AM252A)		VMS84I_UPDATE-V0500	
<b>578230-B21</b> HP rx2800 i2 Embedded SAS 512MB Cache 6Gb 2-port HBA			✓		✓							✓ (AM252A)		VMS84I_UPDATE-V0500	
<b>572532-B21</b> HP rx2800 i2 Embedded SAS 512MB Cache 6Gb 2-port HBA			✓		✓							✓ (AM252A)		VMS84I_UPDATE-V0500	
<b>AD335A</b> HP PCIe P800 3G SAS adapter		✓	✓		✓		✓		✓	✓	✓			VMS84I_UPDATE-V0100	
<b>AB037A</b> HP PCI-X internal SAS adapter					✓									VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AB036B</b> HP PCI-X internal SAS adapter		✓	✓		✓									VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AD397A</b> HP Smart Array P400 - PCIe rx2660 core I/O		✓												VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200
<b>AD348A</b> HP Smart Array P400 - PCIe rx3600/6600 core I/O			✓		✓									VMS84I_UPDATE-V0100	VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200

Notes:

1. OpenVMS v8.3 and v8.3-1H1 goes out of Standard Support 31-Dec-2015. These versions will be on PriorVersionSupport w/o Sustained Engg (PVS w/o SE) till 31-Dec-2018.

# Hewlett Packard Enterprise - StoreEver - OpenVMS Server & Storage Networking Support 4 of 4

IMPORTANT: Support for OpenVMS is independent from the entirety of the HP Data Agile Compatibility Matrix.

## OpenVMS Rackmount Server Adapter Compatibility

OpenVMS Blade Server FC Adapter Compatibility		BL 860c	BL 870c	BL 860c i2	BL 870c i2	BL 890c i2	BL 860c i4	BL 870c i4	BL 890c i4	OpenVMS V8.4	OpenVMS V8.31h1 <sup>1</sup>
451871-B21	HP PCIe 2-port 8Gb FC Mezz (QLogic) HBA	✓	✓	✓	✓	✓					VMS84L_UPDATE-V0200
403619-B21	HP PCIe 2-port 4Gb FC Mezz (QLogic) HBA	✓	✓	✓	✓	✓				VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200	VMS84L_UPDATE-V0100
403621-B21	HP PCIe 2-port 4Gb FC Mezz (Emulex) HBA	✓	✓	✓	✓	✓				VMS831H1_UPDATE-V0100 VMS831H1_FIBRE_SCSI-V0200	VMS84L_UPDATE-V0100
OpenVMS Blade Server SAS Adapter Compatibility		BL860c	BL870c	BL860c i2	BL870c i2	BL890c i2	BL860c i4	BL870c i4	BL890c i4	OpenVMS V8.4	OpenVMS V8.31h1 <sup>1</sup>
513778-B21	HP PCIe SAS Smart Array(P711m) 6Gb/s Mezz HBA			✓	✓	✓					VMS84L_UPDATE-V0700
508226-B21	HP PCIe SAS Smart Array(P700m) 3Gb/s Mezz HBA	✓	✓							VMS831H1_PCSI-V0100 VMS831H1_UPDATE-V0400 VMS831H1_FIBRE_SCSI-V0400	VMS84L_UPDATE-V0100

Notes:

1. OpenVMS v8.3 and v8.3-1H1 goes out of Standard Support 31-Dec-2015. These versions will be on PriorVersionSupport w/o Sustained Engg (PVS w/o SE) till 31-Dec-2018.

# Hewlett Packard Enterprise - StoreEver - OpenVMS Tape Library Support

IMPORTANT: Supported HBAs can be found on the [OpenVMS page](#) in the Operating System section of this Matrix.

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For the latest information on the enterprise backup strategy for HP OpenVMS click the appropriate links below:

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Enterprise Backup Utilities and Products

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<http://h71000.www7.hp.com/openvms/storage/enterprise.html>

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Tape and Virtual Library Connectivity

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[http://h71000.www7.hp.com/openvms/storage/smstape\\_matrix.html](http://h71000.www7.hp.com/openvms/storage/smstape_matrix.html)

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Supported Networking

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[http://h71000.www7.hp.com/openvms/integrity/integrity\\_io\\_options.html](http://h71000.www7.hp.com/openvms/integrity/integrity_io_options.html)

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# Hewlett Packard Enterprise - StoreEver - OpenVMS VTL Drive Support

IMPORTANT: Support for OpenVMS is independent from the entirety of the HP Data Agile Compatibility Matrix.

IMPORTANT: Supported HBAs can be found on the [OpenVMS page](#) in the Operating System section of this Matrix.

HPE Emulated Tape drives		OpenVMS V8.4 <sup>2</sup>	OpenVMS V8.31h1 <sup>1,2</sup>
HP LTO-6 Ultrium 6650	(LTO-6 FH FC & SAS)	VMS84I_PCSI-V0400 VMS84I_UPDATE-V0900 VMS84I_FIBRE_SCSI-V0600	
HP LTO-6 Ultrium 6250	(LTO-6 HH FC & SAS)	VMS84I_PCSI-V0400 VMS84I_UPDATE-V0900 VMS84I_FIBRE_SCSI-V0600	
HP LTO-5 Ultrium 3000	(LTO-5 HH FC & SAS)	VMS84I_PCSI-V0200 VMS84I_UPDATE-V0500	VMS831H1_PCSI-V0200 VMS831H1_UPDATE-V0900 VMS831H1_FIBRE_SCSI-V0800
HP LTO-5 Ultrium 3280	(LTO-5 FH SAS)	VMS84I_PCSI-V0200 VMS84I_UPDATE-V0500	VMS831H1_PCSI-V0200 VMS831H1_UPDATE-V0900 VMS831H1_FIBRE_SCSI-V0800
HP LTO-4 Ultrium 1840	(LTO-4 FH SAS)	VMS84I_UPDATE-V0100	VMS831H1_ADDENDUM-V0100 VMS831H1_FIBRE_SCSI-V0100 VMS831H1_IPB_V0100
HP LTO-4 Ultrium 1760	(LTO-4 HH SAS)		
HP LTO-3 Ultrium 920	(LTO-3 HH SAS)	VMS84I_UPDATE-V0100	VMS831H1_ADDENDUM-V0100 VMS831H1_FIBRE_SCSI-V0100 VMS831H1_IPB_V0100

## Notes:

1. OpenVMS v8.3 and v8.3-1H1 goes out of Standard Support 31-Dec-2015. These versions will be on PriorVersionSupport w/o Sustained Engg (PVS w/o SE) till 31-Dec-2018.
2. Minimum OpenVMS version for Tape Drive support.

# Hewlett Packard Enterprise - StoreEver - Storage Networking

## StoreFabric SAN Switches <sup>1, 3, 10</sup>

B-series <sup>4, 6, 9</sup>	Firmware Streams
HP SN8000B SAN Director Switch, SN6500B, SN6000B & SN3000B Fibre Channel Switch	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1
HP StoreFabric SN4000B	7.4.1c, 7.3.2
HP Encryption SAN Switch and FS8-18 FC Blade	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1
HP DC SAN Backbone Director, HP DC04 SAN Director	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
HP SAN Director 4/256	6.4.3h, 6.3.2d
HP 8/8, 8/24, 8/40, 8/80 SAN Switches	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
Brocade 8Gb SAN Switch for HP BladeSystem c-Class (8/12c and 8/24c)	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
Brocade 16Gb SAN Switch for HP BladeSystem c-Class	7.4.1c, 7.3.2, 7.2.1c1
Brocade 8Gb embedded SAN Switch for EVA4400	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
C-series	Firmware Streams
HP SN8500C Director, HP C-Series Family (MDS 9710)	6.2(15)
HP SN8000C Directors, HP C-series Family (MDS 9506/ MDS 9509/ MDS 9513)	6.2(15), 5.2(8g), 4.2(9)
HP StoreFabric SN6010C 12-port/48-port 16Gb Fibre Channel Switch (MDS9148S)	6.2(15)
HP SN6000C 8Gb Fibre Channel Switch (MDS 9148)	6.2(15), 5.2(8g)
HP C-series Nexus 50x0 Converged Network Switch	5.2(1)N1(9)
Cisco Nexus 5548UP / 5596UP Converged Network Switch	7.3(0)N1(1), 6.0(2)N2(7), 5.2(1)N1(9)
Cisco MDS 9124, 9124e, 9134	5.2(8g), 4.2(9)
Cisco MDS 9222i, 9506, 9509, 9513	6.2(15), 5.2(8g), 4.2(9)
Cisco MDS 8Gb Fabric Switch for HP BladeSystem c-Class	6.2(15), 5.2(8g)
H-series <sup>11</sup>	Firmware
HP SN6000 Stackable Fibre Channel Switch <sup>6</sup>	8.0.14.19.00
HP 8/20q Fibre Channel Switch <sup>6</sup>	8.0.14.19.00
Multi-Protocol Routers, Gateways, and Virtual Connect <sup>1</sup> (All Series)	Firmware Streams
HP StoreFabric SN6500C 16Gb FC/FCIP/FCoE Multi-service Switch	6.2(15)
HP FlexFabric 5930 Switch Series	Version 7.1.045 Release: R2422P01
HP FlexFabric 5900CP Switch	Version 7.1.045 Release: R2422P01
HP Virtual Connect FlexFabric 20/40 F8 Module for c-class Blade System	4.45
HP Virtual Connect FlexFabric 10Gb/24-Port Module for c-Class BladeSystem	4.45
HP Virtual Connect FlexFabric 10Gb/24 Enterprise Edition for Class Systems	4.45
HP 2408 FCoE Converged Network Switch	7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
HP 1606 Extension SAN Switch <sup>2</sup> and DC SAN Director Switch Multiprotocol Ext. Blade <sup>2</sup>	7.4.1c, 7.3.2, 7.2.1g, 7.1.2b1, 7.0.2e1, 6.4.3h, 6.3.2d
HP 16Gb 24-port Virtual Connect FC Module for c-Class BladeSystem	4.45
HP 8Gb 24-Port Virtual Connect FC Module (VC-FC)	4.45
HP 4Gb/8Gb 20 Port Virtual Connect FC Module (VC-FC)	4.45
HP Multi-Protocol Router Blade <sup>5,7</sup>	6.4.3h, 6.3.2d
Brocade VDX6740	7.0.0a, 6.02a, 5.0.2b, 5.0.1d
SAS Switches	Firmware
HP 3Gb SAS BL Switch	2.2.17.0 (b)
HP 6Gb/s SAS BL Switch	4.2.1.0

### Notes:

1. Refer to HPE SAN Design Reference Guide for more configuration details
2. Tape Pipelining supported
3. Recommended minimum versions for various supported code streams.
4. Access Gateway (AG) mode supported. See SPOCK for detailed support information.
5. Tape Pipelining not supported.
6. Platform support is restricted. Please reference the switches' QuickSpec on '[hpe.com/info/qs](http://hpe.com/info/qs)' for supported operating systems and host bus adapters.
7. Supported for FC-IP SAN-to-SAN interconnect only.
8. HPE LTO-7 supported with 7.1.2b1 or later.
9. StoreEver Tape Basic Path Failover with LTO-5 Full Height drives is only supported with 7.1.2a, 7.3.0a, 7.2.1c or later.
10. LTO-6 Advanced path failover & LTO-7 path failover functions with HP B series, C series, and H series FC switches.
11. HP H series switches with LTO-7 may see excessive CRC errors at 8Gbps speeds, set the port speed to 4GB for stable communication.
12. For Tape support on Virtual Connect switches, an external switch is required.

# Hewlett Packard Enterprise - StoreEver - Virtual Machine Support

VM Data Protection Partners	HPE Data Protector	Arcserve Backup	Commvault Simpana	EMC NetWorker	IBM Spectrum Protect (TSM)	Veritas Backup Exec	Veritas NetBackup
For detailed support see Partner support websites	<a href="#">Virtualization Support Matrix</a>	<a href="#">Compatibility Matrix</a>	<a href="#">VMware Compatibility Hyper-V Compatibility</a>	<a href="#">Software Compatibility Guide</a>	<a href="#">Support for Virtual Machines</a>	<a href="#">Software Compatibility</a>	<a href="#">Virtual Environments</a>

## Virtual Machine connectivity to Tape (StoreEver) backup targets

VM Product	StoreEver Direct Attached SAS	StoreEver FC & FCoE SAN	Support Notes
Citrix XenServer Host	No	No	No support statement for tape at this time.
Citrix XenServer Guest VM	No	No	
HPVM Host	Yes	Yes	Tape drive/media changer must not be attached to a guest VM while being used by the host.
HPVM Guest VM	Yes	Yes	Tape drive/media changer must only be attached to a single guest VM at a time.
Hyper-V Host	Yes	Yes	
Hyper-V Guest VM	No	No	
VMware ESXi Host	No	No <sup>1</sup>	<p>HPE does not test or validate direct attached SCSI tape on VMware ESX/ESXi hosts and does not provide support for tape drives and tape libraries in such configurations.</p> <p><a href="#">For ESX 4.1 Server tape support see ESX 4.1 Fibre Channel SAN Configuration Guide.</a></p> <p><a href="#">For ESX 5.0 Server tape support see the ESXi 5.0 vSphere Storage Guide.</a></p> <p><a href="#">For ESX 5.1 Server tape support see the ESXi 5.1 vSphere Storage Guide.</a></p> <p><a href="#">For ESX 5.5 Server tape support see the ESXi 5.5 vSphere Storage Guide.</a></p> <p><a href="#">For ESX 6.0 Server tape support see the ESXi 6.0 vSphere Storage Guide.</a></p>
VMware Guest VM	No	No	HPE does not test or validate direct attached SCSI tape on VMware guest VMs and does not provide support for tape drives and tape libraries in such configurations.
VMware vStorage API for Data Protection	Yes	Yes	See VM data protection partner links above for supported Windows and LINUX operating systems. Fibre Channel SANs and shared tape devices are limited to a physical backup server.

Notes:

- SAN tape devices (FC) are not supported directly by VMware ESXi host. vStorage API for Data Protection use a backup server and virtual machine software snapshots to allow FC backups.



# Hewlett Packard Enterprise - StoreOpen LTFS

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This section includes the following:

- StoreOpen Standalone Support
- StoreOpen Automation Support

# Hewlett Packard Enterprise - StoreOpen Standalone Support

HP StoreOpen Standalone (SOS) version <sup>3</sup> 3.0.0

## Supported Operating Systems for HPE StoreOpen Standalone (SOS)

	Windows Server 2012 R2	Windows Server 2012	Windows Server 2008 R2	Windows Server 2008	Windows 10 <sup>1</sup>	Windows 8.1 <sup>1</sup>	Windows 8 <sup>1</sup>	Windows 7	RHEL 7 Server	RHEL 6 Server <sup>2</sup>	RHEL (Desktop)	Mac OS X <sup>4,5</sup>
<b>HPE LTO-7 Standalone</b>	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
<b>HP LTO-6 Standalone</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>HP LTO-5 Standalone</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

IMPORTANT: To find the supported HBAs, firmware and drivers see the [Operating Systems pages](#) in this Matrix.

Additional Supported Hardware Platforms not shown in the "StoreEver Operating System" pages.

	ATTO Thunder Link SC 3808D	ATTO Thunder Link SH 1068	ATTO H644 H680 H6F0
<b>HP ZBook 17 Mobile Workstation</b>		✓ <sup>6</sup>	
<b>HP ZBook 15 Mobile Workstation</b>		✓ <sup>6</sup>	
<b>Mac Pro G6</b>	✓ <sup>7</sup>		✓
<b>Mac Pro G5</b>	✓ <sup>7</sup>		✓

Key:  
 ✓ Supported

- Notes:
1. Administrator access is required to run SOS with Windows 8, 8.1, & 10.
  2. RHEL 6.0 through 6.7
  3. Currently not supported with HP Path Failover drivers.
  4. Mac OSX 10.7 through 10.11
  5. SOS requires OSXFUSE 2.7.3 and ICU 50.1.2 on Mac OS X 10.7 to 10.10. On OS X 10.11 SOS requires OSXFUSE 2.8.2. OSXFUSE can be downloaded from <https://osxfuse.github.io>.
  6. Supported with HP LTO-6, SOS (v.2.3.0, v2.2.0, v2.2.1), Win7 (x64), Atto firmware 140519, & Atto driver v1.00
  7. Supported with StoreOpen Standalone v3.0.0 only.

For more information about HP StoreOpen tape-based file system, please visit our web site at: [hpe.com/storage/StoreOpen](http://hpe.com/storage/StoreOpen)

# Hewlett Packard Enterprise - StoreOpen Automation Support

HP StoreOpen Automation (SOA) version <sup>2</sup>

3.0.1

Supported Operating Systems for HP StoreOpen Automation (SOA)

All x64 O/S only	Windows Server 2012 R2	Windows Server 2012	Windows Server 2008 R2	Windows Server 2008	RHEL 7 Server	RHEL 6 Server <sup>1</sup>	Mac OS X 10.x <sup>3,4</sup>
HP ESL G3 Libraries	✓	✓	✓	✓	✓	✓	
HP MSL6480 Libraries	✓	✓	✓	✓	✓	✓	✓
HP MSL4048 / 2024 Libraries	✓	✓	✓	✓	✓	✓	✓
HP 1/8 G2 Autoloader	✓	✓	✓	✓	✓	✓	✓

IMPORTANT: To find the supported HBAs, firmware and drivers see the [Operating Systems pages](#) in this Matrix.

Additional Supported Hardware Platforms not shown in the "StoreEver Operating System" pages.

	ATTO H644 H680 H6F0
Mac Pro G6	✓
Mac Pro G5	✓

Key:  
✓ Supported

- Notes:
1. RHEL 6.0 through 6.7
  2. Currently not supported with HP Advanced Path Failover drivers.
  3. Mac OS X 10.7 through 10.11
  4. SOA requires OSXFUSE 2.7.3 and ICU 50.1.2 on Mac OS X 10.7 to 10.10. On OS X 10.11 SOA requires OSXFUSE 2.8.2. OSXFUSE can be downloaded from <https://osxfuse.github.io>.

For more information about HP StoreOpen tape-based file system, please visit our web site at:  
[hpe.com/storage/StoreOpen](http://hpe.com/storage/StoreOpen)

# Hewlett Packard Enterprise - StoreAll Storage Systems

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This section includes the following:

- StoreAll Storage ISV Compatibility Guide
- StoreAll Storage Compatibility Guide

# Hewlett Packard Enterprise - StoreAll Storage Systems

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This Section includes the following:

- StoreAll Storage ISV Compatibility Guide

**General Notes:**

**Latest:** Indicates the current version of ISV. This is also called version N.

**Minimum:** Indicates previous to current version of ISV. This is also called version N-1.

# Hewlett Packard Enterprise - StoreAll Storage Systems - Archiving Application Details

## HP IBRIX / StoreAll Release

Archiving Application	HP StoreAll OS v6.6.x	HP StoreAll OS v6.5.x	HP StoreAll OS v6.3.x	HP StoreAll OS v6.2.x	HP IBRIX OS v6.1.x	HP IBRIX OS v6.0.x	HP IBRIX OS v5.6.x	HP IBRIX OS v5.5.x
<b>HP Consolidated Archive (HPCA)</b>	8.02	8.0	7.15	7.15	Not supported	Not supported	Not supported	Not supported
<b>HP ControlPoint</b>	4.6.1	4.4	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
<b>HP Records Manager</b>	8.1.1	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
<b>HP Structured Data Manager</b>	7.21	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
<b>Veritas Enterprise Vault non-WORM</b>	V11.0.1	V10.0.4	V10.0.1	Not Evaluated	V10.0	V10.0	Not Evaluated	V9.0
<b>Veritas Enterprise Vault WORM</b>	V11.0.1	V10.0.4	V10.0.1	V10.0.1	V10.0	V10.0	Vx.x	V9.0
<b>Commvault Simpana WORM</b>	V10.0 SP7	V10.0 SP5	V9.0 SP10a through V10.0 SP2	V9.0 SP7a through V9.0 SP8a	V9.0 SP6a	V9.0	Not supported	Not supported
<b>Commvault Simpana Non WORM</b>	V10.0 SP7	V10.0 SP5	V9.0 SP10a through V10.0 SP2	Not supported	Not supported	Not supported	Not supported	Not supported
<b>iTernity iCAS- CIFS</b>	V3.7 SP4	v3.7 SP3	V 3.7 SP3	V 3.7 SP2	v3.7	v3.7	Not supported	Not supported
<b>iTernity iCAS- Object</b>	V3.7 SP4	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
<b>Commvault Tape HSM</b>	V10.0 SP7	v10.0 SP5	9.0 SP10a	9.0 SP10a	Not supported	Not supported	Not supported	Not supported

### Notes:

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

**Pending:** The Certification Testing is in progress

**TBD:** Not in scope for HP StoreAll

# Hewlett Packard Enterprise - StoreAll Storage Systems - PACs Application Details

PACS Products	HP StoreAll OS v6.6.x	HP StoreAll OS v6.5.x	HP StoreAll OS v6.3.x	HP StoreAll OS v6.2.x	HP IBRIX OS v6.1.x	HP IBRIX OS v6.0.x	HP IBRIX OS v5.6.x	HP IBRIX OS v5.5.x
<b>GE Healthcare Centricity Enterprise Archive GE EA S/W</b>	CPACS v4.0.10 & v4.0.3 EA v40.11	CPACS v4.0.3 EA v40.11	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated
<b>GE Healthcare Centricity Short Term Storage GE STS JCIFS</b>	JCIFS v1.3.13	JCIFS v1.3.13	JCIFS v1.3.13	JCIFS v1.3.13	JCIFS v1.3.13	v3.21 <sup>1</sup>	v3.21 <sup>1</sup>	Not supported
<b>GE Healthcare Centricity Short Term Storage GE STS S/W</b>	CPACS v4.0.10 & v4.0.3	CPACS v3.2.2 through 4.0.3	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated
<b>Agfa AHEI<sup>2</sup></b>	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated	Not supported	Not supported	Not supported
<b>Agfa IMPAX<sup>2</sup></b>	Not Evaluated	Not Evaluated	v6.5.3 <sup>3</sup>	Not Evaluated	Not Evaluated	Not supported	Not supported	Not supported
<b>McKesson Health Patient Folders</b>	Not Evaluated	Not Evaluated	JCIFS v1.3.16	JCIFS v1.3.16	JCIFS v1.3.16	Not supported	Not supported	Not supported
<b>Sectra PACS Enterprise Edition</b>	Not Evaluated	Not Evaluated	v14.3	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated

Notes:

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

1. Requires support for Windows and Linux JCIFS client (version 1.3.13) and Local User

2. Certification testing completed by Agfa, not HP

**Pending:** The Certification Testing is in progress

**TBD:** Not in scope for HP StoreAll

# Hewlett Packard Enterprise - StoreAll Storage Systems - File Auditing Application Details

HP IBRIX / StoreAll Release	Varonis Latest	Minimum
HP StoreAll OS v6.6.x	Not Evaluated	Not Evaluated
HP StoreAll OS v6.5.x	Not Evaluated	Not Evaluated
HP StoreAll OS v6.3.x	V5.8	V5.8
HP StoreAll OS v6.2.x	V5.8	V5.8
HP IBRIX OS v6.1.x	V5.7	V5.7
HP IBRIX OS v6.0.x	V5.7	V5.7
HP IBRIX OS v5.6.x	Not supported	Not supported
HP IBRIX OS v5.5.x	Not supported	Not supported

Notes:

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

**Pending:** The Certification Testing is in progress

**TBD:** Not in scope for HP StoreAll



# Hewlett Packard Enterprise - StoreAll Storage Systems - Anti-Virus Support

Application supporting Anti-Virus with StoreAll

HP IBRIX / StoreAll Release	Symantec Scan Engine for NAS		Symantec Protection Engine 7.0 (SPE)		McAfee Virus Scan Enterprise		McAfee Virus Scan Enterprise for Storage	
	Latest	Minimum	Latest	Minimum	Latest	Minimum	Latest	Minimum
HP StoreAll OS v6.6.x	Retired <sup>1</sup>	Retired <sup>1</sup>	7.5.15	7.5.15	8.8	8.8	11.0	11.0
HP StoreAll OS v6.5.x	Retired <sup>1</sup>	Retired <sup>1</sup>	7	7	8.8	8.8	10.2	10.2
HP StoreAll OS v6.3.x	Retired <sup>1</sup>	Retired <sup>1</sup>	7	7	8.8	8.8	10.2	10.2
HP StoreAll OS v6.2.x	5.2.10.102	5.2.10.102	NA <sup>2</sup>	NA <sup>2</sup>	8.8	8.8	10.2	10.2
HP IBRIX OS v6.1.x	5.2.10.102	5.2.10.102	NA <sup>2</sup>	NA <sup>2</sup>	8.8	8.8	10.2	10.2

Notes:

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

1. SAV for NAS 5.2 has been discontinued by Symantec after the release of SPE 7.0

2. SPE certification started with StoreAll 6.3.x only SAV for NAS 5.x has been retired by Symantec

**Pending:** The Certification Testing is in progress

**TBD:** Not in scope for HP StoreAll

# Hewlett Packard Enterprise - StoreAll Storage Systems - Video Management System Applications

HP IBRIX / StoreAll Release	Genetec (Omnicast/GSC)		NICE (NiceVision)		Milestone (Xprotect Corporate 2013)	
	Latest	Minimum	Latest	Minimum	Latest	Minimum
HP StoreAll OS v6.6.x	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated	7.0D	7.0D
HP StoreAll OS v6.5.x	5.2	5.2	Not Evaluated	Not Evaluated	Pending	Pending
HP StoreAll OS v6.3.x	5.2	5.2	2.15	2.15	6.1a	6.1a
HP StoreAll OS v6.2.x	Pending	Pending	NA	NA	NA	NA
HP IBRIX OS v6.1.x	Not Evaluated	Not Evaluated	NA	NA	NA	NA

**Notes:**

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

**Pending:** The Certification Testing is in progress

**TBD:** Not in scope for HP StoreAll

# Hewlett Packard Enterprise - StoreAll Storage Systems - Cloud Applications

HP IBRIX / StoreAll Release	Citrix ShareFile Storage Center		Signiant Manager+ Agent	
	Latest	Minimum	Latest	Minimum
HP StoreAll OS v6.6.x	3	3	Not Evaluated	Not Evaluated
HP StoreAll OS v6.5.x	2.2.3	2.2.3	Not Evaluated	Not Evaluated
HP StoreAll OS v6.3.x	1.1	1.1	10.4.0	10.4.0
HP StoreAll OS v6.2.x	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated
HP IBRIX OS v6.1.x	Not Evaluated	Not Evaluated	Not Evaluated	Not Evaluated

Notes:

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

**Pending:** The Certification Testing is in progress

**TBD:** Not in scope for HP StoreAll

# Hewlett Packard Enterprise - StoreAll Storage Systems - NDMP Application Support

Applications certified to backup data residing on StoreAll using NDMP <sup>1</sup>

HP IBRIX / StoreAll Release	HPE Data Protector		Veritas NetBackup		Commvault Simpana		IBM Spectrum Protect (TSM)		EMC NetWorker	
	Latest	Minimum	Latest	Minimum	Latest	Minimum	Latest	Minimum	Latest	Minimum
HP StoreAll OS v6.6.x	9.0x	8.1x	7.6	7.5	10.0 SP10	9.0 SP13	7.1	6.3	Not supported	Not supported
HP StoreAll OS v6.5.x	9.0x	8.1x	7.6	7.6	10.0 SP5a	9.0 SP10a	7.1	6.3	Not supported	Not supported
HP StoreAll OS v6.3.x	9.0x	8.1x	7.6	7.6	10	9.0 SP10a	7.1	6.3	Not supported	Not supported
HP StoreAll OS v6.2.x	7.03	7.0	Not supported	Not supported	9.0 SP8a	9.0 SP8a	6.3	6.3	Not supported	Not supported
HP IBRIX OS v6.1.x	6.21	6.21	Not supported	Not supported	9.0 SP6a	9.0 SP6a	6.3	6.3	Not supported	Not supported
HP IBRIX OS v6.0.x	6.2	6.2	7	7	9	9.0 SP4	6.3	6.3	Not supported	Not supported
HP IBRIX OS v5.6.x	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
HP IBRIX OS v5.5.x	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported

Notes:

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

1. NBU patch 7.6.0.3 is required for backup/restore of i18n characters in the file path and file names.

**Pending:** The Certification Testing is in progress

**TBD:** Not in scope for HP StoreAll

# Hewlett Packard Enterprise - StoreAll Storage Systems - Non-NDMP Application Support

Applications certified to backup data residing on StoreAll using Non-NDMP

HP IBRIX / StoreAll Release	HPE Data Protector		Veritas NetBackup		Commvault Simpana		IBM Spectrum Protect (TSM)		EMC NetWorker	
	Latest	Minimum	Latest	Minimum	Latest	Minimum	Latest	Minimum	Latest	Minimum
HP StoreAll OS v6.6.x	9.0x	8.1x	7.6	7.5	10.0 SP10	9.0 SP13	7.1	6.3	Not supported	Not supported
HP StoreAll OS v6.5.x	9.0x	8.1x	7.6	7.5	10.0 SP5a	9.0 SP10a	7.1	6.3	Not supported	Not supported
HP StoreAll OS v6.3.x	9.0x	8.1x	7.6	7.5	10	9.0 SP10a	7.1	6.3	Not supported	Not supported
HP StoreAll OS v6.2.x	7.03	7	7.5	7.5	9.0 SP8a	9.0 SP8a	6.3	6.3	Not supported	Not supported
HP IBRIX OS v6.1.x	6.21	6.21	7.5	7.5	9.0 SP6a	9.0 SP6a	6.3	6.3	Not supported	Not supported
HP IBRIX OS v6.0.x	6.2	6.2	7	7	9	9.0 SP4	6.3	6.3	Not supported	Not supported
HP IBRIX OS v5.6.x	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
HP IBRIX OS v5.5.x	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported

Notes:

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

**Pending:** The Certification Testing is in progress

**TBD:** Not in scope for HP StoreAll

# Hewlett Packard Enterprise - Backup Application Supported Use Cases- StoreAll as Source <sup>1</sup>

## StoreAll as Source Use Cases <sup>1</sup>

	Commvault Simpana	IBM Spectrum Protect (TSM)	Veritas Net Backup	HPE Data Protector
<b>NDMP Backup Use Cases</b>				
2-WAY	Yes	Yes	Yes	Yes
3-WAY	Yes	Yes	Yes	No
Remote	Yes	No	Yes	No
NDMP Target is iSCSI TAPE	Yes	Yes	Yes	Yes
NDMP Target is FC TAPE	Yes	Yes	Yes	Yes
NDMP Target is VTL (FC / iSCSI)	Yes	Yes	Yes	Yes
<b>Non NDMP Use Case (StoreAll as Backup Source)</b>				
Agent on StoreAll Nodes	Yes	Yes	Yes	Yes
Agent on client where SMB is mapped	Yes	Yes	Yes	No
Agent on client where NFS is mounted	Yes	Yes	Yes	Yes
Backup from UNC Path and Restore to UNC Path	No	Yes	Yes	No
Backup from NFS share and Restore to SMB share	No	No	No	No
Backup from NFS share and Restore to NFS share (using DNS (FQN), NetBIOS Name, IP Address)	No	Yes	Yes	Yes
Backup from SMB logical drive mapping and Restore to UNC Path	No	Yes	No	No
Backup from UNC Path and Restore to SMB Logical drive mapping	No	Yes	No	No
Backup from NFS mount and Restore to On disk	Yes	Yes	Yes	Yes
Backup from NFS User-1 and Restore to NFS User-2	No	Yes	Yes	Yes
ISV Agent Target is iSCSI TAPE	Yes	Yes	Yes	Yes
ISV Agent Target is FC TAPE	Yes	Yes	Yes	Yes
ISV Agent Target Is VTL (FC/iSCSI)	Yes	Yes	Yes	Yes

### Notes:

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

1. See Backup as Source sheet for versions of ISV applications. But it is generally supported on all versions of ISV

# Hewlett Packard Enterprise - StoreAll Storage Systems - StoreAll Backup as Target

Applications certified to backup data using StoreAll as a target

HP IBRIX / StoreAll Release	HPE Data Protector		Veritas NetBackup		Commvault Simpana		IBM Spectrum Protect (TSM)		EMC NetWorker	
	Latest	Minimum	Latest	Minimum	Latest	Minimum	Latest	Minimum	Latest	Minimum
HP StoreAll OS v6.6.x	9.0x	8.1x	7.6	7.5	10.0 SP10	9.0 SP13	7.1	6.3	Not supported	Not supported
HP StoreAll OS v6.5.x	9.0x	8.1x	7.6	7.5	10	9	7.1	6.3	Not supported	Not supported
HP StoreAll OS v6.3.x	9.0x	8.1x	7.6	7.5	10	9	7.1	6.3	Not supported	Not supported
HP StoreAll OS v6.2.x	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
HP IBRIX OS v6.1.x	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
HP IBRIX OS v6.0.x	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
HP IBRIX OS v5.6.x	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported
HP IBRIX OS v5.5.x	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported

## Notes

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

**Pending:** The Certification Testing is in progress

**TBD:** Not in scope for HP StoreAll

# Hewlett Packard Enterprise - Backup Application Supported Use Cases- StoreAll as Target <sup>1</sup>

Supported Use Cases- StoreAll as Target <sup>1</sup>	Commvault Simpana	IBM Spectrum Protect (TSM)	Veritas Net Backup	HPE Data Protector
<b>Use Case (StoreAll NFS as Backup Target)</b>				
Target Connectivity	Yes	Yes	Yes	Yes
Concurrent Backup and Restore	Yes	Yes	Yes	Yes
Storage Pool Addition	Yes	Yes	Yes	Yes
Secondary Copy	Yes	TBD	Yes	Yes
Erasing Target Data	Yes	Yes	Yes	Yes
Erasing Target Data Based On Retention	Yes	TBD	Yes	No
Multiplexing	Yes	Yes	Yes	Yes
Reclamation	No	Yes	No	No
Different Datasets (File Types)	Yes	TBD	Yes	Yes
Import/Export	No	TBD	Yes	Yes
Directory Quota	Yes	Yes	Yes	Yes
Data Spanning Across Multiple Shares/SLOTS	Yes	TBD	No	Yes
Low Water Mark	Yes	TBD	Yes	No
<b>Use Case (Filesystem on StoreAll Nodes as Target)</b>				
Target Connectivity	Yes	TBD	Yes	Yes
Concurrent Backup and Restore	Yes	TBD	Yes	Yes
Storage Pool Addition	Yes	TBD	Yes	Yes
Secondary Copy	Yes	TBD	Yes	Yes
Erasing Target Data	Yes	TBD	Yes	Yes
Erasing Target Data Based On Retention	Yes	TBD	Yes	No
Directory Quota	Yes	TBD	Yes	Yes
Multiplexing	Yes	TBD	Yes	Yes
Reclamation	No	TBD	No	No
Different Data Sets (File types)	Yes	TBD	Yes	Yes
Import/Export	No	TBD	No	Yes
Low Water Mark	Yes	TBD	Yes	No
Data Spanning Across Multiple FS	Yes	TBD	Yes	Yes
<b>Use Case (StoreAll SMB as Backup Target)</b>				
Target Connectivity	Yes	Yes	Yes	Yes
Concurrent Backup and Restore	Yes	Yes	Yes	Yes
Storage Pool Addition	Yes	Yes	Yes	Yes
Secondary Copy	Yes	TBD	Yes	Yes
Erasing Target Data	Yes	Yes	Yes	Yes
Erasing Target Data Based On Retention	Yes	TBD	Yes	No
AD Authentication	Yes	Yes	Yes	Yes
LDAP Authentication	Yes	TBD	TBD	TBD
Local Authentication	Yes	No	Yes	Yes
User Quota	Yes	Yes	Yes	Yes
Group Quota	Yes	Yes	Yes	Yes
Directory Quota	Yes	Yes	Yes	Yes
Multiplexing	Yes	Yes	Yes	Yes
Reclamation	No	Yes	No	No
Low Water Mark	Yes	TBD	Yes	No
Data Spanning Across Multiple Shares/SLOTS	Yes	TBD	No	Yes

Notes:

See the General Notes on 'StoreAll ISV Compatibility Guide' Index page for notation

1. See Backup as Target sheet for versions of ISV applications. But it is generally supported on all versions of ISV



# Hewlett Packard Enterprise - StoreAll Storage Systems - Protocol Interface Support

StoreAll Protocols that were tested and are supported	NFS	SMB	HTTP	Windows IBRIX Client (WIC)	WebDAV	FTP	NDMP	OpenStack Object
<b>Archiving</b>								
iTernity iCAS		✓						
Commvault Simpana Non-WORM		✓						
Commvault Simpana WORM		✓						
Commvault Tape HSM	✓	✓	✓		✓	✓	✓	
Veritas Enterprise Vault WORM		✓						
Veritas Enterprise Vault non-WORM		✓						
Autonomy HPCA		✓						
<b>PACs</b>								
GE Healthcare Short Term Storage		✓						
GE Healthcare Enterprise Archive		✓						
Agfa IMPAX Data Center								
<b>Backup</b>								
<b>HPE Data Protector</b>								
NDMP							✓	
Non-NDMP	✓	✓						
<b>Commvault</b>								
NDMP							✓	
Non-NDMP	✓	✓						
<b>Veritas</b>								
NDMP							✓	
Non-NDMP	✓	✓						
<b>IBM TSM</b>								
NDMP							✓	
Non-NDMP	✓	✓						
<b>EMC</b>								
<b>NetWorker</b>								
<b>File Auditing</b>								
Varonis	✓	✓	✓	✓	✓	✓	✓	
<b>Video Surveillance</b>								
Genetec		✓						
Milestone		✓						
<b>Cloud Applications</b>								
CITRIX Sharefile		✓						
Signiant Manager+Agent		✓						

# Hewlett Packard Enterprise - StoreAll Storage Systems

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This section includes:

- StoreAll Storage Compatibility Guide

# Hewlett Packard Enterprise - StoreAll Storage Systems - Supported Software Update Table

StoreAll OS version	Platform	Built-On	6.6.x	6.5.x	6.3.x	6.2.x	6.1.x	5.6.x	5.5.x
6.5.x	G8/G7	RHEL 5.8	Yes						
6.3.x	G7/G6	RHEL 5.5	Yes (G7 ONLY)	Yes (G7 ONLY)					
6.2.x	G7/G6	RHEL 5.5	Yes (G7 ONLY)	Yes (G7 ONLY)	Yes				
6.1.x	G7/G6	RHEL 5.5	Yes (G7 ONLY)	Yes (G7 ONLY)	Yes	Yes			
5.6.x	G7/G6	RHEL 5.5	Yes, need to 1st upgrade to 6.1 (G7 ONLY)	Yes, need to 1st upgrade to 6.1 (G7 ONLY)	Yes, need to 1st upgrade to 6.1	Yes, must 1st upgrade to 6.1	Yes		
5.5.x	G6	RHEL 5.3	No G6 support w/ 6.6	No G6 support w/ 6.5	Yes, must upgrade to 5.6, then 6.1	Yes, must upgrade to 5.6, then 6.1	Yes, must 1st upgrade to 5.6	Yes	

Legend:

StoreAll 8800 G8 Platform  
 StoreAll 8200 G8 Platform  
 StoreAll 9730 G7 Platform  
 StoreAll X9720 G7 & G6 Platforms  
 StoreAll 9320 G7 & G6 Platforms  
 StoreAll 9300 G7 & G6 Platforms

# Hewlett Packard Enterprise - StoreAll Storage Systems - Supported Linux Operating System for File Serving Nodes and Management Console

Linux Operating System	StoreAll OS v6.6.x	StoreAll OS v6.5.x	StoreAll OS v6.3.x	StoreAll OS v6.2.x	IBRIX OS v6.1.x	IBRIX OS v6.0.x	IBRIX OS v5.6.x	IBRIX OS v5.5.x
RHEL 5.8, 64-bit 2.6.18-371.6.1.hpsp.el5	✓ <sup>1</sup>							
RHEL 5.8, 64-bit 2.6.18-308.24.1.el5		✓						
RHEL 5.5, 64-bit 2.6.18-194.el5			✓	✓	✓	✓	✓	
RHEL 5.3, 64-bit 2.6.18-128.el5								✓

Notes:

1. The kernel version has been updated but not the complete Linux OS revision

# Hewlett Packard Enterprise - StoreAll Storage Systems - Supported Linux OS for StoreAll & IBRIX Native Clients

Linux Operating System <sup>1</sup>	StoreAll OS v6.6.x	StoreAll OS v6.5.x	StoreAll OS v6.3.x	StoreAll OS v6.2.x	IBRIX OS v6.1.x	IBRIX OS v6.0.x	IBRIX OS v5.6.x	IBRIX OS v5.5.x
RHEL 6.6	2.6.32-504.3.3.el6		2.6.32-504.3.3.el6					
RHEL 6.4	2.6.32-358.x.x.el5	2.6.32-358.x.x.el5	2.6.32-358.x.x.el5					
RHEL 6.3	2.6.32-279.x.x.el5	2.6.32-279.x.x.el5	2.6.32-279.x.x.el5					
RHEL 6.2	2.6.32-220.x.x.el5	2.6.32-220.x.x.el5	2.6.32-220.x.x.el5	2.6.32-220.x.x.el5				
RHEL 6.1	2.6.32-131.x.x.el5	2.6.32-131.x.x.el5	2.6.32-131.x.x.el5	2.6.32-131.x.x.el5				
RHEL 5.9	2.6.18-348.x.x.el5	2.6.18-348.x.x.el5						
	2.6.18-308.el5	2.6.18-308.el5	2.6.18-308.el5					
RHEL 5.8	2.6.18-308.24.3.el5	2.6.18-308.24.3.el5	2.6.18-308.24.3.el5	2.6.18-308.x.x.el5				
RHEL 5.7	2.6.18-274.x.x.el5	2.6.18-274.x.x.el5	2.6.18-274.x.x.el5	2.6.18-274.x.x.el5	2.6.18-274.x.x.el5	2.6.18-274.x.x.el5	2.6.18-274.x.x.el5	
RHEL 5.6			2.6.18.238.x.x.el5 <sup>2</sup>	2.6.18.238.x.x.el5 <sup>2</sup>	2.6.18.238.x.x.el5 <sup>2</sup>	2.6.18.238.x.x.el5 <sup>2</sup>	2.6.18.238.x.x.el5 <sup>2</sup>	2.6.18.238.x.x.el5 <sup>2</sup>
RHEL 5.5			2.6.18.194.x.x.el5 <sup>2</sup>	2.6.18.194.x.x.el5 <sup>2</sup>	2.6.18.194.x.x.el5 <sup>2</sup>	2.6.18.194.x.x.el5 <sup>2</sup>	2.6.18.194.x.x.el5 <sup>2</sup>	2.6.18.194.x.x.el5 <sup>2</sup>
RHEL 5.4			2.6.18.164.x.x.el5 <sup>2</sup>	2.6.18.164.x.x.el5 <sup>2</sup>	2.6.18.164.x.x.el5 <sup>2</sup>	2.6.18.164.x.x.el5 <sup>2</sup>	2.6.18.164.x.x.el5 <sup>2</sup>	2.6.18.164.x.x.el5 <sup>2</sup>
RHEL 5.3			2.6.18.128.x.x.el5 <sup>2</sup>	2.6.18.128.x.x.el5 <sup>2</sup>	2.6.18.128.x.x.el5 <sup>2</sup>	2.6.18.128.x.x.el5 <sup>2</sup>	2.6.18.128.x.x.el5 <sup>2</sup>	2.6.18.128.x.x.el5 <sup>2</sup>

Notes:

- 'x.x' in the kernel listing signifies that a client is compatible with all minor kernel updates available for the base kernel unless specified. No new kit is required. Required minimum IBRIX OS versions 5.5.5, 5.6.2 and 6.0.1, for 'x.x' kernel patches
- RHEL 5.2, 5.3, 5.4, 5.5, 5.6, openSUSE 11.1, SLES 10 SP2, SP3, and SP4 will not be supported beyond June 2013.

# Hewlett Packard Enterprise - StoreAll Storage Systems - Supported Linux OS for StoreAll & IBRIX Native Clients

Linux Operating System <sup>1</sup>	StoreAll OS v6.6.x	StoreAll OS v6.5.x	StoreAll OS v6.3.x	StoreAll OS v6.2.x	IBRIX OS v6.1.x	IBRIX OS v6.0.x	IBRIX OS v5.6.x	IBRIX OS v5.5.x
<b>openSUSE 11.1</b>			2.6.27.7.9.default <sup>2</sup>	2.6.27.7.9.default <sup>2</sup>	2.6.27.7.9.default <sup>2</sup>	2.6.27.7.9.default <sup>2</sup>	2.6.27.7.9.default <sup>2</sup>	2.6.27.7.9.default <sup>2</sup>
<b>SUSE Linux Enterprise Server 11.2</b>	3.0.13-0.27-default							
<b>SUSE Linux Enterprise Server 11.1</b>	2.6.32.12-0.7-default	2.6.32.12-0.7-default						
<b>SUSE Linux Enterprise Server 11.0</b>	2.6.27.19.5.default	2.6.27.19.5.default	2.6.27.19.5.default	2.6.27.19.5.default	2.6.27.19.5.default	2.6.27.19.5.default	2.6.27.19.5.default	2.6.27.19.5.default
<b>SUSE Linux Enterprise Server 10.3</b>			2.6.16.60.0.54.5.smp 2.6.16.60.0.69.1.smp <sup>2</sup>	2.6.16.60.0.54.5.smp 2.6.16.60.0.69.1.smp <sup>2</sup>	2.6.16.60.0.54.5.smp 2.6.16.60.0.69.1.smp <sup>2</sup>	2.6.16.60.0.54.5.smp 2.6.16.60.0.69.1.smp <sup>2</sup>	2.6.16.60.0.54.5.smp 2.6.16.60.0.69.1.smp <sup>2</sup>	2.6.16.60.0.54.5.smp 2.6.16.60.0.69.1.smp <sup>2</sup>
<b>SUSE Linux Enterprise Server 10.4</b>			2.6.16.60.0.x.x.smp <sup>2</sup>	2.6.16.60.0.x.x.smp <sup>2</sup>	2.6.16.60.0.x.x.smp <sup>2</sup>			

Notes:

- 'x.x' in the kernel listing signifies that a client is compatible with all minor kernel updates available for the base kernel unless specified. No new kit is required. Required minimum IBRIX OS versions 5.5.5, 5.6.2 and 6.0.1, for 'x.x' kernel patches.
- RHEL 5.2, 5.3, 5.4, 5.5, 5.6, OpenSUSE 11.1, SLES 10 SP2, SP3, and SP4 will not be supported beyond June 2013.

# Hewlett Packard Enterprise - StoreAll Storage Systems - Supported Windows OS for StoreAll & IBRIX SMB/CIFS Clients

Operating System	StoreAll OS v6.6.x	StoreAll OS v6.5.x	StoreAll OS v6.3.x	StoreAll OS v6.2.x	IBRIX OS v6.1.x	IBRIX OS v6.0.x	IBRIX OS v5.6.x	IBRIX OS v5.5.x
Microsoft Windows 8.1, x86/x64	✓ <sup>6</sup>							
Microsoft Windows 8, x86/x64	✓	✓	✓					
Microsoft Windows Server 2012 R2, x86/x64	✓ <sup>6</sup>							
Microsoft Windows Server 2012, x86/x64	✓	✓	✓					
Microsoft Windows 2008 R2, x86/x64	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Windows 2008, x86/x64	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Windows 2003 R2, x86/x64	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Windows 2003 SP2, x86/x64	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Windows 2003, x86/x64	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Windows Vista, x86/x64	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Windows 7, x86/x64	✓	✓	✓	✓	✓	✓	✓	✓
Microsoft Windows XP, x86/x64	✓	✓	✓	✓	✓	✓	✓	✓
MAC OS 10.5 <sup>3,4</sup>	✓	✓	✓	✓	✓		✓	✓ <sup>1</sup>
MAC OS 10.6 <sup>3,4</sup>	✓	✓	✓	✓	✓	✓	✓	✓ <sup>1</sup>
MAC OS 10.7 <sup>3,4</sup>	✓	✓	✓	✓	✓	✓	✓	✓ <sup>1</sup>

## Supported Windows OS for StoreAll/IBRIX Native Clients

Operating System	StoreAll OS v6.6.x	StoreAll OS v6.5.x	StoreAll OS v6.3.x	StoreAll OS v6.2.x	IBRIX OS v6.1.x	IBRIX OS v6.0.x <sup>2</sup>	IBRIX OS v5.6.x	IBRIX OS v5.5.x
Microsoft Windows 2008 R2, x86/x64	✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓	✓		✓	✓
Microsoft Windows 2008, x86/x64	✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓	✓		✓	✓
Microsoft Windows 7, x86/x64	✓ <sup>5</sup>	✓ <sup>5</sup>	✓	✓	✓		✓	✓
Microsoft Windows 2003 SP2, x86/x64			✓	✓	✓		✓	✓
Microsoft Windows 2003 R2, x86/x64			✓	✓	✓		✓	✓

### Notes:

1. IBRIX OS v5.5.1 version or higher
2. There is no Windows Native Clients available for IBRIX OS v6.0
3. Tested with SMB and Active Directory
4. Alternate Data Streams is supported with StoreAll OS v6.2
5. Supported clients are built from v6.3.3
6. SMB will negotiate only to 3.0 and not higher (for example 3.1)

# Hewlett Packard Enterprise - StoreAll Storage Systems - Native Linux Client/Server Compatibility

## StoreAll and IBRIX Native Linux Client-Server Compatibility

Server Release	StoreAll Client 6.6.x	StoreAll Client 6.5.x	StoreAll Client 6.3.x	StoreAll Client 6.2.x	IBRIX Client 6.1.x	IBRIX Client 6.0.x	IBRIX Client 5.6.x	IBRIX Client 5.5.x
StoreAll Server 6.6.x	✓	✓	✓	✓	✓	✓		
StoreAll Server 6.5.x		✓	✓	✓	✓	✓		
StoreAll Server 6.3.x			✓	✓	✓	✓		
StoreAll Server 6.2.x				✓	✓	✓		
IBRIX Server 6.1.x					✓	✓		
IBRIX Server 6.0.x						✓		
IBRIX Server 5.6.x							✓	✓
IBRIX Server 5.5.x								✓

## StoreAll and IBRIX Native Windows Client-Server Compatibility

Server Release	StoreAll Client 6.6.x1	StoreAll Client 6.5.x1	StoreAll Client 6.3.x	StoreAll Client 6.2.x	IBRIX Client 6.1.x	IBRIX Client 6.0.x	IBRIX Client 5.6.x	IBRIX Client 5.5.x
StoreAll Server 6.6.x			✓					
StoreAll Server 6.5.x			✓					
StoreAll Server 6.3.x			✓	✓				
StoreAll Server 6.2.x				✓	✓			
IBRIX Server 6.1.x					✓	✓		
IBRIX Server 6.0.x						✓		
IBRIX Server 5.6.x							✓	✓
IBRIX Server 5.5.x								✓

Notes:

1. StoreAll Windows 6.3.3 client is compatible with StoreAll 6.5.x and 6.6.x releases. There is no separate StoreAll Windows client packages included in the 6.5.x and 6.6.x releases.



# Hewlett Packard Enterprise - StoreAll Storage Systems - Supported Software Features

Feature	StoreAll OS v6.6.x	StoreAll OS v6.5.x	StoreAll OS v6.3.x	StoreAll OS v6.2.x	IBRIX OS v6.1.x	IBRIX OS v6.0.x	IBRIX OS v5.5.x/v5.6.x
Remote Support Automation STaTS	✓						
StoreAll CLI Command Shell	✓						
StoreAll REST API Object Mode	✓	✓	✓				
StoreAll REST API File Compatibility Mode	✓	✓	✓	✓			
StoreAll Open Stack	✓	✓					
StoreAll Express Query	✓	✓	✓	✓			
VLAN tagging <sup>1</sup>	✓	✓	✓	✓	✓		
Anti-Virus	✓	✓	✓	✓	✓		
LDAP	✓	✓	✓	✓	✓		
Fault-Resilient SMB (CIFS)	✓	✓	✓	✓	✓		
Software Snapshot	✓	✓	✓	✓	✓	✓	
WORM/Retention	✓	✓	✓	✓	✓	✓	
Directory Quotas	✓	✓	✓	✓	✓	✓	✓
User/Group Quotas	✓	✓	✓	✓	✓	✓	✓
Linux Client	✓	✓	✓	✓	✓	✓	✓
Windows Client	✓ <sup>4</sup>	✓ <sup>4</sup>	✓	✓	✓		✓
Segment Rebalancing	✓	✓	✓	✓	✓	✓	✓
Data Tiering	✓	✓	✓	✓	✓	✓	✓
Remote Replication	✓	✓	✓	✓	✓	✓	
Constant Validation	✓	✓	✓	✓	✓	✓	
EQ Auditing	✓	✓					
EQ Reporting	✓	✓					

## Array Based Snapshots

Feature	StoreAll 8200 & 8800 Storage	StoreAll 8200 & 8800 Storage	StoreAll 9730 Storage	StoreAll 9320 Storage	IBRIX X9720	StoreAll 9300 Storage
Array Based Snapshots	HPE 3PAR P7000 (7200, 7400), P10000, T400/T800	N/A	N/A	MSA P2000 G2, MSA P2000 G3 <sup>2</sup>	N/A	MSA P2000 G2, MSA P2000 G3, MSA P4000 G2, HPE 3PAR F200, F400, T400 and T800s <sup>2,5</sup>

## Continuous Remote Replication

Source	StoreAll OS v 6.6.x	StoreAll OS v 6.5.x	StoreAll OS v 6.3.x	StoreAll OS v 6.2.x	IBRIX OS v 6.1.x	IBRIX OS v 6.0.x	IBRIX OS v 5.6.x	IBRIX OS v 5.5.x
StoreAll OS v 6.6.x	✓ <sup>3</sup>	✓ <sup>3</sup>	✓	✓	✓			
StoreAll OS v 6.5.x	✓ <sup>3</sup>	✓ <sup>3</sup>	✓	✓	✓			
StoreAll OS v 6.3.x	✓	✓	✓	✓	✓		✓	
StoreAll OS v 6.2.x	✓	✓	✓	✓	✓		✓	
IBRIX OS v 6.1.x	✓	✓	✓	✓	✓		✓	
IBRIX OS v 6.0.x						✓		
IBRIX OS v 5.6.x			✓	✓	✓		✓	✓
IBRIX OS v 5.5.x							✓	✓

### Notes:

- VLAN Tagging is applicable for all HP StoreAll Storage models and not for HP IBRIX X9720 Storage
- P2000 G3 Array based snapshots requires IBRIX OS v5.6 and minimum Firmware version TS230P008
- Secure CRR is supported as source or destination between 6.5 and 6.6 clusters only
- Supported clients are built from v6.3.3.
- HPE 3PAR F200, F400, T400 and T800s Storage Systems require minimum OS version 2.3.1 (MU3)

# Hewlett Packard Enterprise - StoreAll Storage Systems - StoreAll 8200 & 8800 Storage Firmware Guide

Firmware Description	StoreAll OS v6.6.2 Recommended Firmware Level	StoreAll OS v6.5.5 Recommended Firmware Level
<b>Integrated Lights Out (iLO) v4</b>	1.51	Version 1.30
<b>Power Management Controller</b>	Version 3.3	Version 3.2
<b>Server BIOS - Gen8</b>	Version 2014.02.10	Version 2013.09.08
<b>331FLR FIO (LOM)</b>	1.38	Version 1.34
<b>p420 controller</b>	Version 5.42	Version 4.68
<b>NC365T</b>	NA	NA
<b>NC552</b>	Version 4.9.311.25	Version 4.6.247.5
<b>p1228</b>	Version 2.34	Version 2.12
<b>Server HDD 300GB Model EG0300FAWHV</b>	Version HPDF	Version HPDF
<b>Server HDD 300GB Model EG0300FAWJD</b>	Version HPDG	Version HPDG
<b>Server HDD 300GB Model EG0300FARTT</b>	Version HPDA	Version HPDA
<b>Server HDD 300GB Model EG0300FBDBR</b>	Version HPDA	Version HPDA
<b>Server HDD 300GB Model EG0300FBDSP</b>	Version HPD6	Version HPD6
<b>Server HDD 300GB Model EG0300FBLSE</b>	Version HPD7	Version HPD7
<b>Server HDD 300GB Model DG0300FAMWN</b>	Version HPDF	Version HPDF
<b>Server HDD 300GB Model DG0300FARVV</b>	Version HPDG	Version HPDG
<b>Server HDD 300GB Model EG0300FCHHR</b>	Version HPD6	Version HPD6
<b>Server HDD 300GB Model EG0300FCVBF</b>	Version HPD5	Version HPD3
<b>Server HDD 300GB Model EG0300FCSPH</b>	Version N/A	Version N/A
<b>Server HDD 300GB Model EG0300FBVFL</b>	Version HPD9	Version HPD9
<b>Server HDD 300GB Model EG0300JEHLV</b>	Version HPD3	
<b>Drives in the 8800 not in the 8200</b>		
<b>HDD 2TB Model MB2000FAMYV</b>	Version HPD7	Version HPD7
<b>HDD 2TB Model MB2000FBZPN</b>	Version HPD3	Version HPD3
<b>HDD 2TB Model MB2000FBUCL</b>	Version HPDA	Version HPDA
<b>HDD 2TB Model MB2000FCQPF</b>	Version HPD7	Version HPD7
<b>HDD 2TB Model MB2000FCZGH</b>	Version HPD4	Version N/A
<b>HDD 2TB Model MB2000FCVVB</b>	Version N/A	Version N/A
<b>HDD 2TB Model MB2000FCWDF</b>	Version HPD5	Version HPD5
<b>HDD 3TB Model MB3000FCVCA</b>	Version N/A	Version N/A
<b>HDD 3TB Model MB3000FCZGK</b>	Version HPD4	Version N/A
<b>HDD 3TB Model MB3000FCWDH</b>	Version HPD5	Version HPD5
<b>HDD 3TB Model MB3000FBNWV</b>	Version HPD7	Version HPD7
<b>HDD 3TB Model MB3000FBUCN</b>	Version HPDA	Version HPDA
<b>HDD 4TB Model MB4000FCWDK</b>	Version HPD5	Version HPD5
<b>HDD 4TB Model MB4000FCZGL</b>	Version HPD4	Version N/A
<b>HDD 4TB Model MB4000FCVCB</b>	Version N/A	Version N/A
<b>Midline SAS Capacity Block</b>	7.06	7.04
<b>Enterprise SAS Capacity Block</b>	1.5	1.47

Notes:

1. Version N/A - The version of these drives is not available, but are supported.

# Hewlett Packard Enterprise - StoreAll Storage Systems - StoreAll 9300 & 9320 Storage Firmware Guide

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Firmware Description	StoreAll OS v6.6.2 RecommendedFirmware Level	StoreAll OS v6.5.5 RecommendedFirmware Level	StoreAll OS v6.3.5 RecommendedFirmware Level
Server BIOS G7	Version 2013.07.02	Version 2013.07.02	Version 2011.05.05
Server BIOS G6			Version 2011.05.05
Power Management Controller G7	Version 1.6	Version 1.6	Version 1.6
Power Management Controller G6			Version 2.9
Integrated Lights Out (iLO) v2			Version 2.12
Integrated Lights Out (iLO) v3 (iLO3)-G7 Servers only	Version 1.70	Version 1.61	Version 1.28
MSA2312sa Dual Controller Modular Smart Array			M114P01-01 (Package M113R14)
MSA P2000 G3	T251P08-01 (Package TS251P006)	T251P08-01 (Package TS251P006)	T251P08-01 (Package TS251P006)
LOM (NC382i)	Version 5.2.3	Version 5.2.3	Version 5.2.3
p410i controller	Version 6.40	Version 6.40	Version 5.70
NC522			Version 4.0.588 (Package 5.1.2)
NC550	Version 4.9.311.25	Version 4.6.247.5	Version 4.6.247.5
IB 4X DDR and QDR CX-2 PCI-e G2	Infiniband is not supported	Infiniband is not supported	Version 2-2_9_1000
Server Drive Model 146GB DG146BAAJB			Version HPDB
Server Drive Model 146GB EH0146FARUB			Version HPD8
Server Drive Model 146GB DH0146BALWN			Version HPD3
Server Drive Model 146GB DG146A4960			Version HPDB
Server Drive Model 146GB DH0146FAQRE			Version HPDJ
Server Drive Model 146GB EH0146FARWD			Version HPDD
Server Drive Model 146GB DGO146FARVU			Version HPDG
Server Drive Model 146GB EG0146FAWHU			Version HPDF
Server Drive Model 146GB EG0146FARTR			Version HPDA
Server Drive Model 300GB EG0300FAWHV	Version HPDF	Version HPDF	Version HPDF
Server Drive Model 300GB EG0300FAWJD	Version HPDG	Version HPDG	Version HPDG
Server Drive Model 300GB EG0300FARTT	Version HPDA	Version HPDA	Version HPDA
Server Drive Model 300GB EG0300FBDBR	Version HPDA	Version HPDA	Version HPDA
Server Drive Model 300GB EG0300FBDSP	Version HPD6	Version HPD6	Version HPD4
Server Drive Model 300GB EG0300FBLSE	Version HPD7	Version HPD7	Version HPD5
Server Drive Model 300GB DG0300FAMWN	Version HPDF	Version HPDF	Version HPDF
Server Drive Model 300GB DG0300FARVV	Version HPDG	Version HPDG	Version HPDG
Server HDD 300GB Model EG0300FCHHR	Version HPD6	Version HPD6	Version N/A <sup>1</sup>
Server HDD 300GB Model EG0300FCVBF	Version HPD5	Version HPD3	Version HPD3
Server HDD 300GB Model EG0300FCSPH	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Server HDD 300GB Model EG0300FBVFL	Version HPD9	Version HPD9	Version HPD9
Server HDD 300GB Model EG0300JEHLV	Version HPD3		
MSA Drive Model 300GB EG0300FAWHV	Version HPDF	Version HPDF	Version HPDF
MSA Drive Model 300GB DG0300FAMWN	Version HPDF	Version HPDF	Version HPDF
MSA Drive Model 300GB EG0300FBLSE	Version HPD7	Version HPD7	Version HPD5
MSA Drive Model 300GB EG0300FBDBR	Version HPDA	Version HPDA	Version HPDA
MSA Drive Model 300GB EG0300FARTT	Version HPDA		
MSA Drive Model 300GB EG0300FBDSP	Version HPD6		
MSA Drive Model 300GB DG0300FARVV	Version HPDG		
MSA Drive Model 300GB EG0300FAWJD	Version HPDG		

Notes:

1. Version N/A - The version of these drives is not available, but are supported.

# Hewlett Packard Enterprise - StoreAll Storage Systems - StoreAll 9300 & 9320 Storage Firmware Guide

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Firmware Description	StoreAll OS v6.6.2 Recommended Firmware Level	StoreAll OS v6.5.5 Recommended Firmware Level	StoreAll OS v6.3.5 Recommended Firmware Level
MSA Drive Model 300GB EG0300FBVFL	Version HPD9		
MSA Drive Model 300GB EG0300FCHHR	Version N/A <sup>1</sup>		
MSA Drive Model 300GB EG0300FCVBF	Version N/A <sup>1</sup>		
MSA Drive Model 300GB EG0300FCSPH	Version N/A <sup>1</sup>		
MSA Drive Model 300GB EG0300FARTT	Version HPDA	Version HPDA	Version HPDA
MSA Drive Model 300GB EG0300FBDSP	Version HPD6	Version HPD4	Version HPD4
MSA Drive Model 300GB DG0300FARVV	Version HPDG	Version HPDG	Version HPDG
MSA Drive Model 300GB EG0300FAWJD	Version HPDG	Version HPDG	Version HPDG
MSA Drive Model 300GB EG0300FBVFL	Version HPD9	Version HPD9	Version HPD9
MSA Drive Model 300GB EG0300FCHHR	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
MSA Drive Model 300GB EG0300FCVBF	Version HPD3	Version HPD3	Version HPD3
MSA Drive Model 300GB EG0300FCSPH	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
LFF Drive Model 450GB ST3450856SS	Version 0009	Version 0009	Version 0009
LFF Drive Model 450GB ST3450857SS	Version 0008	Version 0008	Version 0008
LFF Drive Model 450GB HUS154545VLS300	Not supported	Not supported	Version N/A <sup>1</sup>
LFF Drive Model 450GB HUS156045VLS600	Not supported	Not supported	Version N/A <sup>1</sup>
LFF Drive Model 600GB ST3600057SS	Version 0008	Version 0008	Version 0008
LFF Drive Model 600GB HUS156060VLS600	Version A760	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
SFF Drive Model 900GB EG0900FBLSK	Version HPD7	Version HPD7	Version HPD5
SFF Drive Model 900GB EG0900FBVFQ	Version HPD9	Version HPD9	Version HPD9
SFF Drive Model 900GB EG0900FCSPN	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
SFF Drive Model 900GB EG0900FCVBL	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
SFF Drive Model 900GB EG0900FCHHV	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
SFF Drive Model 900GB EG0900FDJYR	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 1TB ST1000NM0001	Version 0002 (A)	Version 0002 (A)	Version 0002 (A)
Drive Model 1TB ST31000424SS	Version 0008 (A)	Version 0008 (A)	Version 0008 (A)
Drive Model 1TB ST1000NM0023	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 1TB WD1001FYYG-70SL3W0	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 1TB MK1001TRKB	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 2TB ST32000444SS	Version 0008 (A)	Version 0008 (A)	Version 0008 (A)
Drive Model 2TB MK2001TRKB	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 2TB WD2001FYYG-70SL3W0	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 2TB ST2000NM0001	Version 0002 (A)	Version 0002 (A)	Version 0002 (A)
Drive Model 2TB HUS724020ALS640	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 2TB HUS723020ALS640	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 2TB ST2000NM0023	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 3TB HUS723030ALS640	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 3TB ST33000650SS	Version 0005	Version 0005	Version N/A <sup>1</sup>
Drive Model 3TB ST3000NM0023	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 3TB WD3001FYYG-70SL3W0	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
Drive Model 3TB HUS724030ALS640	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>

Notes:

1. Version N/A - The version of these drives is not available, but are supported.

# Hewlett Packard Enterprise - StoreAll Storage Systems - StoreAll 9730 Storage Firmware Guide

Firmware Description	StoreAll OS v6.6.2 Recommended Firmware Level	StoreAll OS v6.5.5 Recommended Firmware Level	StoreAll OS v6.3.5 Recommended Firmware Level
Onboard Administrator	Version 4.21	Version 4.01	Version 3.60
Virtual Connect Flex-10 Module	Version 4.20	Version 4.01	Version 3.60
6Gb SAS Switch	Version 3.5.5.5 SEP 4.18	Version 3.5.5.0	Version 3.5.5.0
Server BIOS- G7	Version 2013.07.02	Version 2013.07.02	Version 2011.05.05
Integrated Lights Out (iLO) v3 (iLO3) - G7 Servers Only	Version 1.70	Version 1.61	Version 1.28
Internal HDD controller P410i	Version 6.40	Version 6.40	Version 5.70
Flex-10 LOM G7	Version 4.9.311.25	Version 4.6.247.5	Version 4.6.247.5
p1210m Controller	Version 2.34	Version 1.82	Version 1.80
9700 CX MDS600	Version 3.60	Version 3.60	Version 3.60
9700 CX D6000	Version 2.54	Version 2.38	Version 2.38
Server HDD 300GB Model EG0300FAWHV	Version HPDF	Version HPDF	Version HPDF
Server HDD 300GB Model EG0300FAWJD	Version HPDG	Version HPDG	Version HPDG
Server HDD 300GB Model EG0300FARTT	Version HPDA	Version HPDA	Version HPDA
Server HDD 300GB Model EG0300FBDBR	Version HPDA	Version HPDA	Version HPDA
Server HDD 300GB Model EG0300FBDSP	Version HPD6	Version HPD6	Version HPD4
Server HDD 300GB Model EG0300FBLSE	Version HPD7	Version HPD7	Version HPD7
Server HDD 300GB Model DG0300FAMWN	Version HPDF	Version HPDF	Version HPDF
Server HDD 300GB Model DG0300FARVV	Version HPDG	Version HPDG	Version HPDG
Server HDD 300GB Model EG0300FBVFL	Version HPDC	Version HPD9	Version HPD9
Server HDD 300GB Model EG0300FCHHR	Version HPD6	Version HPD6	Version N/A <sup>1</sup>
Server HDD 300GB Model EG0300FCVBF	Version HPD5	Version HPD3	Version HPD3
Server HDD 300GB Model EG0300FCSPH	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
9700 CX HDD 2TB Model MB2000FAMYV	Version HPD7	Version HPD7	Version HPD7
9700 CX HDD 2TB Model MB2000FBZPN	Version HPD3	Version HPD3	Version HPD3
9700 CX HDD 2TB Model MB2000FBUCL	Version HPDA	Version HPDA	Version HPDA
9700 CX HDD 2TB Model MB2000FCQPF	Version HPD7	Version HPD7	Version HPD6
9700 CX HDD 2TB Model MB2000FCZGH	Version HPD4	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
9700 CX HDD 2TB Model MB2000FCVBV	Version HPD1	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
9700 CX HDD 2TB Model MB2000FCWDF	Version HPD5	Version HPD5	Version HPD5
9700 CX HDD 3TB Model MB3000FCVCA	Version HPD1	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
9700 CX HDD 3TB Model MB3000FCZGK	Version HPD4	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
9700 CX HDD 3TB Model MB3000FCWDH	Version HPD5	Version HPD5	Version HPD5
9700 CX HDD 3TB Model MB3000FBNWV	Version HPD7	Version HPD7	Version HPD6
9700 CX HDD 3TB Model MB3000FBUCN	Version HPDA	Version HPDA	Version HPDA

Notes:

1. Version N/A - The version of these drives is not available, but are supported.

# Hewlett Packard Enterprise - StoreAll Storage Systems - IBRIX X9720 Storage Firmware Guide

Firmware Description	StoreAll OS v6.6.2 Recommended Firmware Level	StoreAll OS v6.5.5 Recommended Firmware Level	StoreAll OS v6.3.5 Recommended Firmware Level
<b>Onboard Administrator</b>	Version 4.21	Version 4.01	Version 3.60
<b>Flex -10 Virtual Connect Module</b>	Version 4.20	Version 4.01	Version 3.60
<b>Server BIOS G6</b>			Version 2011.05.05
<b>Server BIOS G7</b>	Version 2013.07.02	Version 2013.07.02	Version 2011.05.05
<b>Integrated Lights Out (ILO) v2 G6</b>			Version 2.12
<b>Integrated Lights Out (ILO) v3 (ILO3) - G7 Servers Only</b>	Version 1.70	Version 1.61	Version 1.28
<b>Internal HDD controller P410i</b>	Version 6.40	Version 6.40	Version 5.70
<b>Power Management Controller G7</b>	Version 1.6	Version 1.6	Version 1.6
<b>Power Management Controller G6</b>			Version 3.4
<b>P700M</b>	Version 5.74.0	Version 5.74.0	Version 5.74.0
<b>SAS Switch Solex</b>	Version 2.2.17	Version 2.2.17	Version 2.2.17
<b>Flex10 LOM G6</b>			Version 6.2.27 (Package 2.10.15)
<b>Flex10 LOM G7</b>	Version 4.9.311.25	Version 4.6.247.5	Version 4.6.247.5
<b>ExDS9100c SEP</b>	Version 1.56	Version 1.56	Version 1.56
<b>ExDS9100cc Controller</b>	Version 1.42	Version 1.42	Version 1.42
<b>ExDS9100cx MDS600</b>	Version 3.60	Version 3.60	Version 3.60
<b>Drive Model DB1000BABFF</b>	Version HPD8	Version HPD8	Version HPD8
<b>Drive Model MB1000BAWJP</b>	Version HPD8	Version HPD8	Version HPD8
<b>Drive Model MB1000FAMYU</b>	Version HPD7	Version HPD7	Version HPD7
<b>Drive Model MB1000FBZPL</b>	Version HPD3	Version HPD3	Version HPD3
<b>Drive Model MB1000FCWDE</b>	Version HPD5	Version HPD5	Version HPD5
<b>Drive Model MB1000FCWPP</b>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
<b>Drive Mode MB2000FCZGH</b>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
<b>Drive Mode MB2000FCVBV</b>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>	Version N/A <sup>1</sup>
<b>Drive Model MB2000FAMYV</b>	Version HPD7	Version HPD7	Version HPD7
<b>Drive Model MB2000FBZPN</b>	Version HPD3	Version HPD3	Version HPD3
<b>Drive Model MB2000FBUCL</b>	Version HPDA	Version HPDA	Version HPDA
<b>Drive Model MB2000FCQPF</b>	Version HPD7	Version HPD7	Version HPD6
<b>Drive Model MB2000FCWDF</b>	Version HPD5	Version HPD5	Version HPD5
<b>Server HDD 300GB Model EG0300FAWHV</b>	Version Any	Version Any	Version Any
<b>Server HDD 300GB Model EG0300FAWJD</b>	Version HPDG	Version HPDG	Version HPDG
<b>Server HDD 300GB Model EG0300FARTT</b>	Version Any	Version Any	Version Any
<b>Server HDD 300GB Model EG0300FBDBR</b>	Version HPDA	Version HPDA	Version HPDA
<b>Server HDD 300GB Model EG0300FBDSP</b>	Version Any	Version Any	Version Any
<b>Server HDD 300GB Model EG0300FBLSE</b>	Version Any	Version Any	Version Any
<b>Server HDD 300GB Model DG0300FAMWN</b>	Version Any	Version Any	Version Any
<b>Server HDD 300GB Model DG0300FARVV</b>	Version HPDG	Version HPDG	Version HPDG
<b>Server HDD 300GB Model EG0300FBVFL</b>	Version HPD9	Version HPD9	Version HPD9
<b>Server HDD 300GB Model EG0300FCHHR</b>	Version Any	Version Any	Version Any
<b>Server HDD 300GB Model EG0300FCVBF</b>	Version HPD3	Version HPD3	Version HPD3
<b>Server HDD 300GB Model EG0300FCSPH</b>	Version Any	Version Any	Version Any

Notes:

1. Version N/A - The version of these drives is not available, but are supported.

# Hewlett Packard Enterprise - StoreAll Storage Systems - Supported HBAs

HBA Specification	HP Part Number/ Hardware Model	Driver Version
<b>StoreAll 8800</b> <sup>1</sup>	P1228 controller QW991-60103	HPSA 3.2.0.9
<b>StoreAll 8200 Gateway</b> <sup>1</sup>	Qlogic 8 Gb FC HBA AJ764A	Vendor Specific
<b>StoreAll 9730</b>	1210m controller 607191-B21	6.3.4 hpsa 3.0.0-7 6.5.x hpsa 3.2.0-9 6.6.x hpsa 3.2.0-9
<b>IBRIX X9720</b>	p700m controller 484823-001	6.3.x cciss 3.6.28-15 6.5.x cciss 3.6.28-22 6.6.x cciss 3.6.28-24
<b>StoreAll 9320</b> <sup>1</sup>	488765-B21 (3GB SAS HBA) 614988-B21 (HP SCO8e 6 Gb SAS HBA)	6.3.4 3Gb mptlinux 4.00.13.9 6.5.x 6Gb mpt2sas 05.10.06.00-1 6.6.x 6Gb mpt2sas 05.10.06.00-3
<b>StoreAll 9300 Gateway</b> <sup>1</sup>	488765-B21 (3GB SAS HBA) 614988-B21 (HP SCO8e 6 Gb SAS HBA) AJ764A (Dual Port FC HBA)	6.3.4 3Gb mptlinux 4.00.13.9 6.5.x 6Gb mpt2sas 05.10.06.00-1 6.6.x 6Gb mpt2sas 05.10.06.00-3 FC Vendor Specific

Notes:

1. Only HBAs with the specified part numbers are supported.

# Hewlett Packard Enterprise - StoreAll Storage Systems - Supported NICs

NIC Specification	HP Part Number/ Hardware Model	Bonded NICs (Bonding Mode)	Driver Version
<b>StoreAll 8800</b>	NC365T 1GbE quad port	1Gb - Mode 6 or Mode 4 10Gb - Mode 1 or Mode 4	6.5.x ibg 4.3.0-5
	NC552SFP 10GbE dual port		6.5.x be2net 4.6.247.7-1
<b>StoreAll 8200</b>	331 FLR 1GbE Quad port	1Gb - Mode 6 or Mode 4 10Gb - Mode 1 or Mode 4	6.5.x tg3 3.132f-1
	NC365T 1GbE quad port		6.6.x ibg 5.0.7-4
<b>StoreAll 9330</b>	NC552SFP 10GbE dual port	File Servers - Mode 1 Virtual Connect - Single connection or LACP Trunk	6.6.x be2net 4.9.311.1-1
	331 FLR 1GbE Quad port		6.6.x tg3 3.134f-2
<b>StoreAll 9730</b>	Embedded NIC	File Servers - Mode 1 Virtual Connect - Single connection or LACP Trunk	6.3.4 be2net 4.6.247.7-1
			6.5.x be2net 4.6.247.7-1
<b>IBRIX X9720</b>	Embedded NIC	File Servers - Mode 1 Virtual Connect - Single connection or LACP Trunk	6.6.x 3.9.311.1-1
			6.3.4 G6 bnx2x1.78.80
<b>StoreAll 9320</b>	435508-B21 (HP NC364T 1Gb quad NIC) 468332-B21 (HP NC522SFP 10Gb dual NIC) 581201-B21 (HP NC550SFP Dual port 10GbE Server Adapter)	1Gb - Mode 6 or Mode 4 10Gb - Mode 1 or Mode 4	6.3.4 G7 be2net 4.6.247.7-1
			6.5.x G7 be2net 4.6.247.7-1
<b>StoreAll 9300 Gateway</b>	592520-B21 (HP IB 4X QDR CX-2 PCI-e G2 Dual Port HCA) 592521-B21 (HP IB 4X DDR CX-2 PCI-e G2 Dual Port HCA)	1Gb - Mode 6 or Mode 4 10Gb - Mode 1 or Mode 4	6.6.x G7 be2net 4.9.311.1-1
			Vendor Specific
<b>StoreAll 9300 Gateway</b>	HP NC382i 1Gb LOM ports 435508-B21 (HP NC364T 1Gb quad NIC) 468332-B21 (HP NC522SFP 10Gb dual NIC) 581201-B21 (HP NC550SFP Dual port 10GbE Server Adapter)	1Gb - Mode 6 or Mode 4 10Gb - Mode 1 or Mode 4	6.3.4 - bnx2 2.2.1l
			6.5.x and 6.6.x - bnx2x 2.2.3t
<b>StoreAll 9300 Gateway</b>	592520-B21 (HP IB 4X QDR CX-2 PCI-e G2 Dual Port HCA) 592521-B21 (HP IB 4X DDR CX-2 PCI-e G2 Dual Port HCA)	1Gb - Mode 6 or Mode 4 10Gb - Mode 1 or Mode 4	6.3.4 - e1000e 1.9.5-1
			6.5.x - e1000e 2.4.4-5
<b>StoreAll 9300 Gateway</b>	592520-B21 (HP IB 4X QDR CX-2 PCI-e G2 Dual Port HCA) 592521-B21 (HP IB 4X DDR CX-2 PCI-e G2 Dual Port HCA)	1Gb - Mode 6 or Mode 4 10Gb - Mode 1 or Mode 4	6.6.x - e1000e 2.5.7-4
			6.3.4 - nx_nic 4.0.585-2
<b>StoreAll 9300 Gateway</b>	592520-B21 (HP IB 4X QDR CX-2 PCI-e G2 Dual Port HCA) 592521-B21 (HP IB 4X DDR CX-2 PCI-e G2 Dual Port HCA)	1Gb - Mode 6 or Mode 4 10Gb - Mode 1 or Mode 4	6.3.4 be2net 4.6.247.7.1
			6.5.x be2net 4.6.247.7.1
<b>StoreAll 9300 Gateway</b>	592520-B21 (HP IB 4X QDR CX-2 PCI-e G2 Dual Port HCA) 592521-B21 (HP IB 4X DDR CX-2 PCI-e G2 Dual Port HCA)	1Gb - Mode 6 or Mode 4 10Gb - Mode 1 or Mode 4	6.6.x be2net 4.9.311.1-1
			Vendor Specific

## Bonding Modes:

- mode 1 – active/passive fail-over mode (no customer switch configuration required)
- mode 6 - Adaptive load balancing (no customer switch configuration required)
- mode 4 - Customer must aggregate ports on their switch(s) with LACP/802.3ad



# Hewlett Packard Enterprise - StoreAll Storage Systems - Supported Browsers

OS	Firefox <sup>1</sup>	Chrome <sup>1</sup>	Internet Explorer
StoreAll OS v6.6	Firefox 27 or later <sup>2</sup>	Chrome 32 or later on Windows	IE 9, IE 10 and IE 11
StoreAll OS v6.5	Firefox 21 or later	Chrome 27 or later on Windows	IE 8, IE 9 and IE 10
StoreAll OS v6.3	Firefox 16 or later	Chrome 24 or later on Windows	IE 8 and IE 9
StoreAll OS v6.2	Firefox 16 or later	Chrome 24 or later on Windows	IE 8 and IE 9
IBRIX OS v6.1	Firefox 16 or later	Chrome 24 or later on Windows	IE 8 and IE 9
IBRIX OS v6.0	Firefox 16 or later	Chrome 24 or later on Windows	IE 8 and IE 9
IBRIX OS v5.6	Firefox 16 or later		IE 8 and IE 9
IBRIX OS v5.5.x	Firefox 16 or later		IE 8 and IE 9

## Notes:

1. The explicit browser version listed is the one available and tested prior to product release
2. Firefox Corporate ESR 31.3.0 installed by StoreAll on file serving nodes. This is equivalent to consumer Firefox <sup>34</sup>

# Hewlett Packard Enterprise - StoreAll Storage Systems - Supported MPIO Software

This table shows compatibility between 3rd party MPIO software & File Serving Nodes/Segment Server Versions

Third Party MPIO Software	StoreAll 8800	StoreAll 8200 Gateway	StoreAll 9730	IBRIX X9720	StoreAll 9320	StoreAll 9300 Gateway	IBRIX OS v5.5/v5.6/v6.0/v6.1 StoreAll OS v6.2/v6.3/v6.5
<b>Device Mapper Multipath</b>	Storage vendor-specific Device Mapper configuration	Storage vendor-specific Device Mapper configuration	Handled by HBA	Handled by HBA	Storage vendor-specific Device Mapper configuration	Storage vendor-specific Device Mapper configuration	Storage vendor-specific Device Mapper configuration
<b>EMC PowerPath</b>	N/A	N/A	N/A	N/A	N/A	v5.3	v5.3

# Hewlett Packard Enterprise - StoreAll Storage Systems & IBRIX 8200/9300 Gateways Storage Subsystems

## Hewlett Packard Enterprise StoreAll 8200 Gateways Supported Storage Subsystems

HP StoreAll 8200 Gateway Storage running StoreAll OS v6.5 or later is supported with HP 3PAR StoreServ 7000, 8000, and 10000 Storage with the Fibre Channel HBAs that are also supported within HP StoreAll 8200 Gateway Storage.

## Hewlett Packard Enterprise StoreAll and IBRIX 9300 Gateways Supported Storage Subsystems

HP StoreAll 9300 Gateway Storage running StoreAll OS v6.5.x is compatible with HP 3PAR StoreServ, HP EVA, and HP XP arrays that support RHEL 5.8 with the FC/SAS HBAs that are also supported within HP StoreAll 9300 Gateway Storage. Please refer to the HP StoreAll Storage QuickSpecs for the list of HP StoreAll 9300 Gateway supported storage Interfaces and refer to the respective array SPOCK for other compatibility information.

HP StoreAll 9300 Gateway Storage running StoreAll OS v5.6 and higher is compatible with HP 3PAR StoreServ, HP EVA, and HP XP arrays that support RHEL 5.5 with the FC/SAS HBAs that are also supported within HP StoreAll 9300 Gateway Storage. Please refer to the HP StoreAll Storage QuickSpecs for the list of HP StoreAll 9300 Gateway supported storage Interfaces and refer to the respective array SPOCK for other compatibility information.

HP StoreAll 9300 Gateway Storage running StoreAll OS v5.5 and lower is compatible with HP 3PAR StoreServ, HP EVA, and HP XP arrays that support RHEL 5.3 with the FC/SAS HBAs that are also supported within HP StoreAll 9300 Gateway Storage. Please refer to the HP StoreAll Storage QuickSpecs for the list of HP StoreAll 9300 Gateway supported storage Interfaces and refer to the respective array SPOCK for other compatibility information.

# Hewlett Packard Enterprise - Legacy Support

IMPORTANT: For Standalone tape drives, support can be leveraged from the library tape drives listed in older matrices.

Device Name	Last Data Agile Matrix Where Device Was Listed <sup>1</sup>	Links to all Legacy Months Matrices
<b>StoreOnce plug-in for SAP on Oracle</b>	<a href="#">April 2016</a>	<a href="#">May 2016</a>
<b>P800, P700m SAS HBAs</b>	<a href="#">April 2016</a>	<a href="#">April 2016</a>
<b>Standalone LTO3 SCSI, LTO4 SCSI drives, SCSI HBAs &amp; SCSI cables</b>	<a href="#">November 2015</a>	<a href="#">March 2016</a>
<b>MSL Libraries LTO3 SAS &amp; SCSI, LTO4 SCSI drives</b>	<a href="#">October 2015</a>	<a href="#">February 2016</a>
<b>4Gb Storage Networking SAN switches</b>	<a href="#">October 2015</a>	<a href="#">January 2016</a>
<b>D2D G2 StoreOnce Systems</b>	<a href="#">June 2015</a>	<a href="#">December 2015</a>
<b>HP DAT Standalone Tape Drives</b>	<a href="#">June 2015</a>	<a href="#">November 2015</a>
<b>HP StoreEver LTO-2 Ultrium Drives</b>	<a href="#">April 2015</a>	<a href="#">October 2015</a>
<b>HP DAT320</b>	<a href="#">March 2015</a>	<a href="#">September 2015</a>
<b>HP ProLiant Generation 6 (G6) Servers</b>	<a href="#">February 2015</a>	<a href="#">August 2015</a>
<b>HP-UX (PA-RISC) Platform</b>	<a href="#">June 2014</a>	<a href="#">July 2015</a>
<b>D2D G1 StoreOnce Systems</b>	<a href="#">January 2014</a>	<a href="#">June 2015</a>
<b>EML E-Series Tape Libraries</b>	<a href="#">December 2013</a>	<a href="#">May 2015</a>
<b>HP B-Series 4/32 SAN switch</b>	<a href="#">July 2013</a>	<a href="#">April 2015</a>
<b>HP Virtual Library Systems (VLS)</b>	<a href="#">June 2013</a>	<a href="#">March 2015</a>
<b>ESL E-Series Tape Library</b>	<a href="#">June 2013</a>	<a href="#">February 2015</a>
<b>HP SAN Virtualization Services Platform (SVSP)</b>	<a href="#">May 2013</a>	<a href="#">January 2015</a>
<b>Itanium support with Windows &amp; Linux Operating Systems</b>	<a href="#">February 2013</a>	<a href="#">December 2014</a>
<b>EFS Clustered Gateway G5 (PolyServe)</b>	<a href="#">February 2013</a>	<a href="#">November 2014</a>
<b>HP DPX Backup Software</b>	<a href="#">December 2012</a>	<a href="#">October 2014</a>
<b>MSL6000 Series Tape Libraries, NSR e1200-160, NSR e1200-320</b>	<a href="#">August 2011</a>	<a href="#">September 2014</a>
<b>HP A, L, N, R and V Class PA-RISC Servers</b>	<a href="#">May 2012</a>	<a href="#">August 2014</a>
<b>D2D100 Series Backup Systems</b>	<a href="#">October 2009</a>	<a href="#">July 2014</a>
<b>ESL E-Series (SDLT 600), MSL6000 Series (SDLT 600)</b>	<a href="#">September 2009</a>	<a href="#">June 2014</a>
<b>2Gb Fibre Channel HBAs and Infrastructure</b>	<a href="#">August 2009</a>	<a href="#">May 2014</a>
<b>VLS6100, VLS6500 &amp; VLS6800</b>	<a href="#">April 2009</a>	<a href="#">April 2014</a>
<b>Ultrium 460 &amp; 448 Drives, Ultrium 232 1/8 Autoloader, D2D110, VLS300, VLS1002i</b>	<a href="#">November 2008</a>	<a href="#">March 2014</a>
<b>Older products</b>	<a href="#">Request for older products</a>	<a href="#">February 2014</a>
		<a href="#">January 2014</a>
		<a href="#">December 2013</a>
		<a href="#">November 2013</a>
<b>Legacy Operating System Support</b>	<b>Last Data Agile Matrix Where Device Was Listed <sup>1</sup></b>	<a href="#">October 2013</a>
<b>RHEL 5 for StoreOnce &amp; StoreEver</b>	<a href="#">January 2016</a>	<a href="#">September 2013</a>
<b>Solaris 9</b>	<a href="#">December 2015</a>	<a href="#">August 2013</a>
<b>HP-UX 11i v2 (11.23)</b>	<a href="#">December 2015</a>	<a href="#">July 2013</a>
<b>SLES/SLED &amp; RHEL 5 Support for StoreOpen</b>	<a href="#">April 2015</a>	<a href="#">June 2013</a>
<b>SUSE Linux Enterprise Server 10</b>	<a href="#">April 2014</a>	<a href="#">May 2013</a>
<b>AIX 5.3</b>	<a href="#">September 2013</a>	<a href="#">April 2013</a>
<b>Tru64</b>	<a href="#">July 2013</a>	<a href="#">March 2013</a>
<b>Windows Server 2003</b>	<a href="#">October 2012</a>	<a href="#">February 2013</a>
<b>Red Hat Enterprise Linux 4</b>	<a href="#">March 2012</a>	<a href="#">January 2013</a>
<b>HP-UX 11i v1 (11.11)</b>	<a href="#">April 2011</a>	<a href="#">December 2012</a>
<b>SUSE Linux Enterprise Server 9</b>	<a href="#">August 2010</a>	<a href="#">November 2012</a>
		<a href="#">October 2012</a>
		<a href="#">See note 1 for older matrices.</a>

Notes:

1. For older Matrices that are no longer listed online, please send an email request to [bura.solutions@hpe.com](mailto:bura.solutions@hpe.com).

# Hewlett Packard Enterprise - Useful Links

Product Family	Website (URL)
HPE StoreOnce Systems	<a href="http://hpe.com/storage/storeonce">hpe.com/storage/storeonce</a>
HPE StoreEver Tape Libraries	<a href="http://hpe.com/storage/tape">hpe.com/storage/tape</a>
HPE StoreEver CVTL	<a href="http://hpe.com/storage/cvtl">hpe.com/storage/cvtl</a>
HPE StoreEver Data Verification	<a href="http://hpe.com/storage/dataverification">hpe.com/storage/dataverification</a>
HPE StoreOpen (LTFS)	<a href="http://hpe.com/storage/storeopen">hpe.com/storage/storeopen</a>
HPE StoreEver Tape Assure	<a href="http://hpe.com/storage/tapeassure">hpe.com/storage/tapeassure</a>
HPE Data Agile BURA Compatibility Home Webpage	<a href="http://hpe.com/storage/buracompatibility">hpe.com/storage/buracompatibility</a>
HPE Data Agile Partner Program	<a href="http://hpe.com/storage/dataagile">hpe.com/storage/dataagile</a>
Library and Tape Tools (LTT)	<a href="http://hpe.com/storage/tapetools">hpe.com/storage/tapetools</a>
Storage Media	<a href="http://hpe.com/storage/storagemedia">hpe.com/storage/storagemedia</a>
HPE QuickSpecs	<a href="http://hpe.com/info/qs">hpe.com/info/qs</a>
Firmware & Driver Downloads	<a href="http://hpe.com/support/hpesc">hpe.com/support/hpesc</a>
HPE SAN Design Reference Guide	<a href="http://hpe.com/storage/spock">hpe.com/storage/spock</a>
HPE Data Protector Software	<a href="http://hpe.com/software/dataprotector">hpe.com/software/dataprotector</a>
HPE Support Center	<a href="http://hpe.com/support/hpesc">hpe.com/support/hpesc</a>

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