



StoreOnce Generation 3 (G3) Support Matrix

21 November 2018

Terms of use for this Support Matrix

© 2018 Hewlett Packard Enterprise, the Hewlett Packard Enterprise Logo, HPE and Hewlett Packard Enterprise product marks are registered in the U.S. Patent and Trademark Office. Other Products or company names mentioned herein may be trademarks or registered trademarks of their respective companies. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HPE shall not be liable for technical or editorial errors or omissions contained herein.

Hewlett Packard Enterprise - StoreOnce G3 Support Matrix Table of Contents

| | |
|--|----|
| New, removed and previous support | 3 |
| Key to Abbreviations Used in the StoreOnce Support Matrix | 4 |
| StoreOnce Data Protection Partner Resources | 5 |
| System Software for StoreOnce Systems | 6 |
| StoreOnce VSA versions, hypervisor support and backup interfaces | 7 |
| StoreOnce VTL Application & NDMP Support | 8 |
| StoreOnce SMB (CIFS) Application Support | 9 |
| StoreOnce NFS Application Support | 10 |
| StoreOnce System Software & RMC | 11 |
| StoreOnce Catalyst & Bridgehead Software | 12 |
| StoreOnce Catalyst & Commvault | 13 |
| StoreOnce Catalyst & Micro Focus Data Protector | 14 |
| StoreOnce Catalyst & Micro Focus VM Explorer | 15 |
| StoreOnce Catalyst & Microsoft SQL Server | 16 |
| StoreOnce Catalyst & Oracle RMAN | 17 |
| StoreOnce Catalyst & SAP HANA | 18 |
| StoreOnce Catalyst & Veeam Backup & Replication | 20 |
| StoreOnce Catalyst & Veritas Backup Exec | 21 |
| StoreOnce Catalyst & Veritas NetBackup | 22 |

| | |
|--|----|
| StoreOnce Catalyst & Veritas NetBackup Appliance | 23 |
| StoreOnce Catalyst Cloud Bank Storage & Object Storage | 24 |
| StoreOnce Multi-Node Systems Autonomic Restart | 25 |
| StoreOnce Native OS App Support | 26 |
| StoreOnce Encryption Key Management | 27 |
| OS, HBA, FC support for HP-UX (Integrity) | 28 |
| OS, HBA, FC support for Windows 20GbE CNAs | 29 |
| OS, HBA, FC support for Windows 10GbE CNAs | 30 |
| OS, HBA, FC support for Windows 10GbE Blade CNAs | 31 |
| OS, HBA, FC support for Windows 32Gb & 16Gb FC HBAs | 32 |
| OS, HBA, FC support for Windows 8Gb & 4Gb FC HBAs | 33 |
| OS, HBA, FC support for Linux 20GbE CNAs | 34 |
| OS, HBA, FC support for Linux 10GbE CNAs | 35 |
| OS, HBA, FC support for Linux 32Gb, 16Gb & 8Gb FC HBAs | 36 |
| OS, HBA, FC support for Linux 4Gb FC HBAs | 37 |
| OS, HBA, FC support for Solaris (x64) | 38 |
| OS, HBA, FC support for Solaris (SPARC) | 39 |
| OS, HBA, FC support for AIX, IBMi, & PowerVM | 40 |
| Storage Networking | 41 |

The Support Matrix for HPE RMC is [here](#) (requires HPE Passport account to access)
 The Support Matrix for HPE StoreEver tape products is [here](#) (requires HPE Passport account to access)

Hewlett Packard Enterprise - StoreOnce G3 - New, Removed and Previous Support

Additions to this Support Matrix All updates from the previous matrix are shown in this matrix in [green text](#).

Partner Resources - Micro Focus Data Protector 10.02 added

Current System Software - Latest System Software Release updated, 6500, 4900,4700,4500, 2900, 2700 added

VTL Application & NDMP Support - MicroFocus Data protector 10.10, MicroFocus VM explorer 7.1 added

G3 SMB Application Support - MicroFocus Data protector 10.10, MicroFocus VM explorer 7.1 added

NFS Application Support - MicroFocus Data protector 10.10, MicroFocus VM explorer 7.1 added

Catalyst Application Support - Commvault - Commvault Backup and Recovery v11 SP13 added

Catalyst Application Support - Micro Focus Data Protector Express & Micro Focus Data Protector Premium - Micro Focus Data Protector 10.xx updated

Catalyst Application Support - Micro Focus VM Explorer - Micro Focus VM Explorer 7.1, 7.0 & 6.6 updated

Catalyst Application Support - Microsoft SQL Server - Application and StoreOnce plug-in updated

Catalyst Application Support - Oracle RMAN - Plug-in version, Windows Server and SLES updated

Catalyst Application Support - SAP HANA - multiple updates

Catalyst Application Support - Veritas Backup Exec - Plug-in version updated, CBS n/a

Catalyst Application Support - Veritas NetBackup - Veritas NetBackup 8.1.x updated, HPE StoreOnce Catalyst Plug-in 4.2.0 updated, Accel_HyperV added

Catalyst Application Support - Veritas NetBackup Appliance - Accel_HyperV added, Accel_NDMP added, NetBackup Appliance 3.1.x updated

| Previously removed support | Last Matrix where listed |
|--|--------------------------------|
| IBM Spectrum Protect (TSM) support for Multi-Node Autonomic Restart | March 2018 |
| Cisco MDS 9124e, 9134 & Brocade 8Gb embedded SAN Switch for EVA4400 | August 2017 |
| 4Gb FC adapters FC2143 & FC2243, 41B & 42B, 415 & 425 | August 2017 |
| Dell EMC NetWorker v7.x | July 2017 |
| Commvault Backup v9.x | July 2017 |
| Micro Focus Data Protector 8.1x | June 2017 |
| Bridgehead Software Healthcare Data Management 14a & 13a Release Set | June 2017 |
| HP Workstations Z800, Z600 & Z400 | May 2017 |
| Veritas Backup Exec 2012 | May 2017 |
| AIX 6.1 & IBM i on power 6 | March 2017 |
| Veritas NetBackup v7.6 and 7.5 Catalyst Features | February 2017 |
| HP Enterprise Secure Key Manager 3.0, 2.1 and SKM 1.1 | February 2017 |
| HPE StoreAll Storage | September 2016 |
| Data Protector 7.x & 8.0x | June 2016 |
| StoreOnce plug-in for SAP on Oracle | April 2016 |
| P800, P700m SAS HBAs | April 2016 |
| RHEL 5 | January 2016 |
| Solaris 9 | December 2015 |
| HP-UX 11i v2 (11.23) | December 2015 |
| 4Gb Storage Networking SAN switches | October 2015 |
| D2D G2 StoreOnce Systems | June 2015 |
| HP ProLiant Generation 6 (G6) Servers | February 2015 |
| HP-UX (PA-RISC) Platform | June 2014 |
| SUSE Linux Enterprise Server 10 | April 2014 |
| D2D G1 StoreOnce Systems | January 2014 |
| AIX 5.3 | September 2013 |
| Tru64 | July 2013 |
| HP B-Series 4/32 SAN switch | July 2013 |
| HP Virtual Library Systems (VLS) | June 2013 |
| Windows Server 2003 | October 2012 |
| Red Hat Enterprise Linux 4 | March 2012 |
| HP-UX 11i v1 (11.11) | April 2011 |
| SUSE Linux Enterprise Server 9 | August 2010 |

| Previous matrices on SPOCK | Links to previous StoreOnce Support Matrices | | | | | |
|----------------------------|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 |
| March | August | December | December | December | December | December |
| July | July | November | November | November | November | November |
| 6 September | June | October | October | October | October | October |
| | May | September | September | September | September | September |
| | April | August | August | August | August | August |
| | March | July | July | July | July | July |
| | February | June | June | June | June | June |
| | January | May | May | May | May | May |
| | | April | April | April | April | April |
| | | March | March | March | March | March |
| | | February | February | February | February | February |
| | | January | January | January | January | January |

Hewlett Packard Enterprise - Key to Abbreviations Used in the StoreOnce G3 Support Matrix

| Abbreviation | Description |
|------------------------|---|
| ✓ | Supported Solution |
| ✓* | Supported Solution - in conjunction with note X |
| n/a | Not applicable |
| A.I.R. | Veritas NetBackup Auto Image Replication |
| Accel_Hyper-V | Veritas NetBackup OST Accelerator for Hyper-V |
| Accel_NDMP | Veritas NetBackup OST Accelerator NDMP |
| Accel_VMware | Veritas NetBackup OST Accelerator for VMware |
| Accelerator | Veritas NetBackup OST Accelerator |
| CBS | Catalyst Cloud Bank Storage |
| CBS Dir Res | Cloud Bank Storage Direct Restore |
| CBS Opt Res | Cloud Bank Storage Optimized Restore (using Catalyst Copy to local store) |
| CBS Detach | Catalyst Cloud Bank Storage Detach |
| CBS MR | Catalyst Cloud Bank Storage Multi-Reader |
| CCoE | Catalyst Copy over Ethernet |
| CCoFC | Catalyst Copy over Fibre Channel |
| CoE | Catalyst backup over Ethernet |
| CoFC | Catalyst backup over Fibre Channel |
| DI | Catalyst Data Immutability |
| DT | SAP HANA Dynamic Tiering |
| FedCat | Federated Catalyst over Ethernet & Fibre Channel |
| GRT | Veritas NetBackup Granular Restore Technology, Veritas BackupExec Granular Restore Technology and Micro Focus VM Explorer Granular Restore Technology |
| GRT_VMware | Veritas NetBackup Granular Recovery Technology with VMware-type policies |
| HAF | SAP HANA Host Auto Failover |
| Incr/Diff | SAP HANA Incremental/Differential |
| IR_VMware | Veritas NetBackup Instant Recovery for VMware |
| IVMR | Veeam Backup & Replication Instant VM Recovery / Micro Focus VM Explorer Instant VM Recovery |
| LivMig | Micro Focus Data Protector Live Migrate |
| MDC | SAP HANA Multiple Database Containers |
| MltStrm | SAP HANA Multistream |
| ODS | Veeam Backup and Replication On-Demand Sandbox |
| Opt_Dup | Veritas Backup Exec and Veritas NetBackup Optimized Deduplication |
| Powron | Micro Focus Data Protector Power-on |
| SB | Veeam Backup and Replication On-Demand Sandbox |
| StorRep | SAP HANA Storage Replication |
| SysCopy | SAP HANA System Copy |
| SysRep | SAP HANA System Replication |
| Targeted_A.I.R. | Veritas NetBackup Targeted Auto Image Replication |
| WI_Opt_Dup | Veritas NetBackup Whole Image Optimized Duplication |

Hewlett Packard Enterprise - StoreOnce G3 Partner Resources

| Partner | Ninja Protected+ Assessment ¹ | | Links to Partner Compatibility Information | | |
|----------------------------------|--|------------------------|--|----------|---|
| | Report | Supported versions | Software | Hardware | More information |
| HPE SGI DMF | | | SCL | HCL | |
| Acronis Backup Advanced | | | SCL | HCL | |
| Arcserve Backup | | | SCL | HCL | |
| Arcserve UDP | | | SCL | NA | |
| Agfa HealthCare | | | NA | NA | White-papers |
| Asigra Cloud Backup | | | NA | NA | |
| Atempo Time Navigator | | | SCL | HCL | |
| AvePoint DocAve | | | SCL | NA | |
| Bacula Enterprise Edition | | | SCL | NA | |
| Barracuda Yosemite Server Backup | | | SCL | HCL | |
| BridgeHead HDM Suite | | | | | |
| Citrix ShareFile | | | | | White-papers |
| Commvault | ✓ | 10, 11 | SCL | HCL | White-papers |
| Dell EMC NetWorker | ✓ | 8.0 - 8.2 | SCL | HCL | White-papers |
| ETI-NET Backup | | | NA | NA | |
| IBM Spectrum Protect (TSM) | ✓ | 6.1 - 7.1.x | SCL | HCL | White-papers |
| ITermity ICAS | | | NA | NA | White-papers |
| Micro Focus Data Protector | ✓ | 6.11 - 10.02 | SCL | HCL | White-papers |
| Micro Focus VM Explorer | | | SCL | HCL | |
| Microsoft Azure | | | | | Reference Configuration |
| Microsoft System Center DPM | | | SCL | HCL | |
| NetApp Data ONTAP (NDMP) | | | SCL | HCL | |
| Oracle Secure Backup | | | SCL | HCL | |
| QStar Archive Manager | | | SCL | HCL | White-papers |
| Quantum StorNext | | | SCL | HCL | |
| Quest NetVault | | | SCL | HCL | |
| Quest vRanger | | | | | |
| Retrospect | | | SCL | HCL | |
| Veritas Backup Exec | ✓ | 2012, 2014, 15, 16, 20 | SCL | HCL | White-papers |
| Veritas NetBackup | ✓ | 6.5 - 8.1 | SCL | HCL | White-papers |
| Veeam Backup & Replication | ✓ | 9, 9.5 | SCL | HCL | White-papers |

Notes

1. NinjaProtected+ (NP+) is a HPE tool that provides free of charge insights into and recommendations for the efficiency of backup environments. The result of the Assessment is a report that includes quantification of key performance parameters such as number of backup jobs, backup capacities, backup and restores success rates, job durations, etc. The Report also includes recommendations to improve the efficiency of the data protection process. Assessments are requested using the NP+ Sign Up page. For more information on the free NP+ service email ninjabprotected@hpe.com

Links

Sign up page for NP+ Assessment: <https://www.hpe.com/us/en/resources/protected-guarantee-program.html>
 Email ninjabprotected@hpe.com

Hewlett Packard Enterprise - Current System Software for StoreOnce G3 Systems

This table shows the current System Software for each StoreOnce model. If running an older version of software it is recommended to upgrade⁹ to a version shown in the table below to take advantage of the latest fixes and features.

| | System Software ^{1,2,3} → | 3.18.x ⁷ | 3.16.x ⁷ | 3.13.x |
|----------------------------|------------------------------------|---------------------|---------------------|--------|
| | Latest System Software Release → | 3.18.5 | 3.16.5 | 3.13.8 |
| Model | Interface | | | |
| 6600 | FC and LAN | ✓ | ✓ | |
| 6500 | FC and LAN | ✓ ⁸ | ✓ ^{5,6} | ✓ |
| B6200 | FC and LAN | | | ✓ |
| 5500 | FC, iSCSI and LAN | ✓ | ✓ | |
| 5100 | FC, iSCSI and LAN | ✓ | ✓ | |
| 4900 | FC and LAN | ✓ ⁸ | ✓ ⁵ | ✓ |
| 4700 | FC, iSCSI and LAN | ✓ ⁸ | ✓ ⁵ | ✓ |
| 4500 | FC, iSCSI and LAN | ✓ ⁸ | ✓ ⁵ | ✓ |
| 4430 | FC, iSCSI and LAN | | | ✓ |
| 4420 | FC, iSCSI and LAN | | | ✓ |
| 4220 | FC, iSCSI and LAN | | | ✓ |
| 4210 FC | FC, iSCSI and LAN | | | ✓ |
| 4210 iSCSI | iSCSI and LAN | | | ✓ |
| 3540 | FC, iSCSI and LAN | ✓ | ✓ | |
| 3520 | FC, iSCSI and LAN | ✓ | ✓ | |
| 3100 | iSCSI and LAN | ✓ | ✓ | |
| 2900 | iSCSI and LAN | ✓ ⁸ | ✓ ⁵ | ✓ |
| 2700 | iSCSI and LAN | ✓ ⁸ | ✓ ⁵ | ✓ |
| 2620 iSCSI | iSCSI and LAN | | | ✓ |
| 2610 iSCSI | iSCSI and LAN | | | ✓ |
| StoreOnce VSA ⁴ | FC,iSCSI and LAN | ✓ | ✓ | ✓ |

Notes

- Supported browsers are IE9, 10, 11, Firefox v23 and later, & Firefox ESR 24.x and later. See note 7 for additional information.
- StoreOnce replication compatibility is "any to any" across any platform generation and any StoreOnce System Software level.
- Key Parameters can be found in the product user guides: Links below.
- See StoreOnce VSA page, in this Support Matrix, for Hypervisor and backup interface support.
- OS conversion software upgrade RPM is required to upgrade from 3.13.x to 3.15.x or higher.
- 6500 couplets used in the same cluster as B6200 couplets cannot be upgraded beyond 3.13.x.
- TLS 1.0 is no longer supported. TLS 1.1 or 1.2 must be manually enabled for IE 9, 10, Firefox v23 to v26, & Firefox ESR 24 to 26.
- Cloud Bank Storage requires StoreOnce 3.18 or newer and is supported on models: VSA, 3100, 3250, 3540, 5100, 5500, 6600. It is not supported on models: 2700, 2900, 4500, 4700, 4900, 6500.
- StoreOnce System software is available from HPE Software Depot. From home page use the search field to search on 'StoreOnce'. More information in the System Software upgrade paths is in the HPE StoreOnce 3.16.x and 3.18.x Software Upgrade Guide.

Links

User guide for StoreOnce 6600/6500

Installation & Configuration guide for StoreOnce 5500/5100/3540/3520/3100

User guide for StoreOnce VSA

StoreOnce Systems QuickSpecs

HPE Enterprise Support Centre: <https://support.hpe.com/hpsc/public/home> Search here for StoreOnce documentation.

HPE StoreOnce 3.16.x and 3.18.x Software Upgrade Guide: https://support.hpe.com/hpsc/doc/public/display?docId=a00005806en_us

HPE Software Depot: <https://h20392.www2.hpe.com/portal/swdepot/searchProducts.do>

Hewlett Packard Enterprise - StoreOnce VSA G3 versions, hypervisor support and backup interfaces²

The first table shows hypervisor support for the current and previous versions of StoreOnce VSA^{1,6}. The second table shows the backup interfaces supported for the current and previous versions of StoreOnce VSA^{1,6}.

| StoreOnce Software | VMware vSphere ¹⁰ | | | | Microsoft Hyper-V | | KVM | | | Microsoft |
|------------------------|------------------------------|----------|----------|----------|-----------------------|--------------------------|-------------|------------------|------------------|------------------|
| | ESXi 6.5 | ESXi 6.0 | ESXi 5.5 | ESXi 5.1 | 2016 ^{3,4,5} | 2012 R2 ^{3,4,5} | SLES 11 SP3 | Ubuntu 14.04 LTS | Ubuntu 12.04 LTS | Azure Cloud |
| 3.18.2 or newer | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | | |
| 3.16.3 | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | ✓ ^{8,9} |
| 3.16.2 | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | ✓ ^{8,9} |
| 3.13.5 | | ✓ | ✓ | | | ✓ | | | | |
| 3.13.3 | | ✓ | ✓ | | | ✓ | | | | |
| 3.13.1 | | | ✓ | ✓ | | ✓ | | | ✓ | |
| 3.13.0 | | | ✓ | ✓ | | ✓ | | | ✓ | |

| StoreOnce Software | CoE | CoFC | SMB | NFS | ISCSI | FC |
|------------------------|-----|----------------|-----|-----|-------|----------------|
| 3.18.2 or newer | ✓ | ✓ ⁷ | ✓ | ✓ | ✓ | ✓ ⁷ |
| 3.16.3 | ✓ | ✓ ⁷ | ✓ | ✓ | ✓ | ✓ ⁷ |
| 3.16.2 | ✓ | ✓ ⁷ | ✓ | ✓ | ✓ | ✓ ⁷ |
| 3.13.5 | ✓ | | ✓ | ✓ | ✓ | |
| 3.13.3 | ✓ | | ✓ | ✓ | ✓ | |
| 3.13.1 | ✓ | | ✓ | ✓ | ✓ | |
| 3.13.0 | ✓ | | ✓ | ✓ | ✓ | |

Notes

- For information on upgrading the StoreOnce VSA software version and host resources requirements see the StoreOnce VSA Deployment and Configuration Guide. The original StoreOnce VSA had term licenses (3 & 5 years). From StoreOnce 3.13.2 all licenses are perpetual. At any time in the final 180 days of their term, term licenses can be renewed and/or capacity increased by applying a perpetual licenses. Perpetual licenses require software version is 3.13.2 or newer. The 32 TB license requires StoreOnce 3.16.x or newer. Key parameters can be found in the StoreOnce VSA Deployment & Configuration Guide.
- Supported to use VMFS3, VMFS5 and NFS data stores, not supported with Raw Device Mapping (RDM).
- Supported on Server and Core editions.
- When using a Broadcom NIC, the Hyper-V setting VMO (Virtual Machine Queues) must be disabled. For additional information, refer to Microsoft.support web site
- Supported on NTFS file system based storage, not supported on pass through disks and ReFS based storage.
- See StoreOnce VSA pages on HPE.com for more information
- Only supported on VMware. Requires 8 Gb (2500 series) QLogic HBAs. Recommended that maximum 2 HBAs and maximum 4 FC Ports are supported per StoreOnce VSA.
- See the StoreOnce QuickSpecs for the supported Virtual Machine templates. Supported up to 32 TB capacity. Supported as a Catalyst backup target, Catalyst copy target, NAS / VTL replication target.
- Available from Azure Marketplace.

Links

StoreOnce VSA Deployment and Configuration Guide: http://h20564.www2.hp.com/hpsc/doc/public/display?docId=emr_na-c03822685

Microsoft.support web content for using a Broadcom NIC: <http://support.microsoft.com/kb/2902166>

StoreOnce VSA on HPE: www.hp.com/storage/StoreOnceVSA

StoreOnce VSA on the Azure Marketplace: <https://azuremarketplace.microsoft.com/en-gb/marketplace/apps/hpe.storeoncevsa>

Hewlett Packard Enterprise - StoreOnce G3 VTL Application & NDMP Support

This table shows compatibility between backup and recovery software versions and StoreOnce VTL with the current StoreOnce Software. Use the data protection software compatibility information to check operating system and platform compatibility - accessible using the links on the 'StoreOnce Partners Resources' page of this document.

| Backup & Recovery Software ⁶ | Latest Supported ¹ | Earliest Supported | StoreOnce 3.18.x | StoreOnce 3.16.x | StoreOnce 3.13.x |
|---|-------------------------------|--------------------|------------------|------------------|------------------|
| Acronis Backup Advanced | 11.x | 11.x | ✓ ² | ✓ ² | ✓ ² |
| Arcserve Backup | 17.x | 16.x | ✓ ² | ✓ ² | ✓ ² |
| Atempo Time Navigator | 4.x | 4.x | ✓ ² | ✓ ² | ✓ ² |
| Bacula Enterprise Edition | 8.4.7 | 8.4.7 | ✓ | ✓ | ✓ |
| Bridgehead Software HDM | 17b | 13a | ✓ | ✓ | ✓ |
| Commvault | 11.8 | 10.x | ✓ ² | ✓ ² | ✓ ² |
| Dell EMC NetWorker | 9.x | 8.x | ✓ | ✓ | ✓ |
| IBM BRMS ³ | V7R2M0 | V7R1M0 | ✓ ³ | ✓ ³ | ✓ ³ |
| IBM Spectrum Protect (TSM) ⁷ | 8.1 | 6.3 | ✓ | ✓ | ✓ |
| Micro Focus Data Protector | 10.10 | 9.x | ✓ | ✓ | ✓ |
| Micro Focus VM Explorer ⁴ | 7.1 | 6.1.5 | ✓ | ✓ | ✓ |
| Microsoft System Center DPM | 2016, 2012 R2 | 2010 | ✓ | ✓ | ✓ |
| Oracle Secure Backup | 12.x | 10.x | ✓ | ✓ | ✓ |
| Quest NetVault | 11.x | 10.x | ✓ ² | ✓ ² | ✓ ² |
| Tributary Systems Storage Director | 10 | 10 | ✓ ² | ✓ ² | ✓ ² |
| Veritas Backup Exec | 16 | 2014 | ✓ | ✓ | ✓ |
| Veritas NetBackup | 8.1 | 7.x | ✓ | ✓ | ✓ |
| VSI OpenVMS ABS/MRU backup application ⁵ | 4.6 | 4.6 | ✓ | ✓ | ✓ |

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 use the SPOCK contact web page to request further supportability details.

Notes

1. The latest version is supported with the latest version of StoreOnce software. For the latest versions supported with older versions of StoreOnce software please refer to a previous support matrix.
2. Please contact "DAPR.Solutions@hpe.com" for support details.
3. Supported for IBM i Operating Systems only when using HPE StoreOnce VTL devices.
4. Instant VM recovery (IVMR) is not supported.
5. See OpenVMS Virtual Tape Library (StoreOnce VTL) page in this Matrix for more details.
6. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
7. 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.

Links

SPOCK contact web page: <https://spock.corp.int.hpe.com/SPOCK/Utility/Feedback.aspx>

Hewlett Packard Enterprise - StoreOnce G3 SMB Application Support

This table shows compatibility between backup and recovery software versions and StoreOnce CIFS (SMB) Shares using with the current StoreOnce System Software. Use the data protection software compatibility information to check operating system and platform compatibility - accessible using the links on the 'StoreOnce Partners Resources' page of this document.

| Backup & Recovery Software ^{5,7} | Latest Supported ¹ | Earliest Supported | StoreOnce 3.18.x | StoreOnce 3.16.x | StoreOnce 3.13.x |
|--|-------------------------------|--------------------|------------------|------------------|------------------|
| HPE NonStop Backbox | H4.00 | H4.00 | ✓ | ✓ | ✓ |
| Acronis Backup | 12.x | 11.x | ✓ ³ | ✓ ³ | ✓ ³ |
| Arcserve Backup | 17.x | 15.x | ✓ ³ | ✓ ³ | ✓ ³ |
| Arcserve UDP | 6.0 U1 | 5.0 U4 | ✓ ³ | ✓ ³ | ✓ ³ |
| Asigra Cloud Backup | v13 | v12.2 | ✓ ³ | ✓ ³ | ✓ ³ |
| AvePoint DocAve | 6.7 | 6.6 | ✓ | ✓ | ✓ |
| Bridgehead Software HDM | 17b | 13a | ✓ | ✓ | ✓ |
| Commvault | 11.8 | 10.x | ✓ | ✓ | ✓ |
| Dell EMC NetWorker ⁹ | 9.x | 8.x | ✓ | ✓ | ✓ |
| ETI-NET Backbox | V4 | V4 | ✓ | ✓ | ✓ |
| IBM Spectrum Protect (TSM) ² | 8.1 | 6.3.3 | ✓ | ✓ | ✓ |
| Micro Focus Data Protector | 10.10 | 9.x | ✓ | ✓ | ✓ |
| Micro Focus VM Explorer ⁴ | 7.1 | 6.1 | ✓ | ✓ | ✓ |
| MS SQL Server native ⁶ | 2012 | 2008 | ✓ | ✓ | ✓ |
| Oracle RMAN | 12c | 10g | ✓ | ✓ | ✓ |
| Quest NetVault | 11.x | 10x | ✓ ³ | ✓ ³ | ✓ ³ |
| Quest vRanger | 7.5.x | 7.5.x | ✓ | ✓ | ✓ |
| Veeam Backup | 9.x | 7 | ✓ | ✓ | ✓ |
| Veritas Backup Exec | 16 | 2014 | ✓ | ✓ | ✓ |
| Veritas NetBackup ⁸ | 8.1 | 7.x | ✓ | ✓ | ✓ |

Notes

1. The latest version is supported with the latest version of StoreOnce software. For the latest versions supported with older versions of StoreOnce software please refer to a previous support matrix.
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 use the SPOCK contact web page
4. Instant VM recovery (IVMR) is not supported.
5. Synthetic Full backup techniques are not recommended. Exceptions include Data Protector and RMC 3.0+.
6. See the Customer Advisory on Microsoft SQL Server native backup restore performance limits from HPE StoreOnce CIFS backup targets.
7. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
8. Supported with SMB version 1 only.
9. Select within NetWorker: Advanced File Type Device (AFTD) option.

Links

Customer Advisory c05365143 - Microsoft SQL Server native backup restore performance from HPE StoreOnce CIFS backup targets
 SPOCK contact web page: <https://spock.corp.int.hpe.com/SPOCK/Utility/Feedback.aspx>

Hewlett Packard Enterprise - StoreOnce G3 NFS Application Support

This table shows compatibility between backup and recovery software versions and StoreOnce NFS Share with the current StoreOnce System Software. Use the data protection software compatibility information to check operating system and platform compatibility - accessible using the links on the 'StoreOnce Partners Resources' page of this document.

| Backup & Recovery Software ^{5,6} | Latest Supported ¹ | Earliest Supported | StoreOnce 3.18.x | StoreOnce 3.16.x | StoreOnce 3.13.x |
|---|-------------------------------|--------------------|------------------|------------------|------------------|
| Acronis Backup | 12.x | 11.x | ✓ ³ | ✓ ³ | ✓ ³ |
| Arcserve Backup | 17.x | 16.x | ✓ ³ | ✓ ³ | ✓ ³ |
| Arcserve UDP | 6.0 U1 | 5.0 U4 | ✓ ³ | ✓ ³ | ✓ ³ |
| Asigra Cloud Backup | v13 | v12.2 | ✓ ³ | ✓ ³ | ✓ ³ |
| Bridgehead Software HDM | 16b | 13a | ✓ | ✓ | ✓ |
| Commvault | 11.8 | 10.x | ✓ | ✓ | ✓ |
| Dell EMC NetWorker ⁷ | 9.x | 8.x | ✓ | ✓ | ✓ |
| IBM Spectrum Protect (TSM) ² | 8.1 | 6.3.3 | ✓ | ✓ | ✓ |
| Micro Focus Data Protector | 10.10 | 9.x | ✓ | ✓ | ✓ |
| Micro Focus VM Explorer ⁴ | 7.1 | 6.1.5 | ✓ | ✓ | ✓ |
| Oracle RMAN | 12c | 10g | ✓ | ✓ | ✓ |
| Quest NetVault | 11.x | 10.x | ✓ ³ | ✓ ³ | ✓ ³ |
| Quest vRanger | 7.5.x | 7.5.x | ✓ | ✓ | ✓ |
| Veeam Backup | 9.x | 7 | ✓ | ✓ | ✓ |
| Veritas NetBackup | 8.1 | 7.x | ✓ | ✓ | ✓ |

Notes

1. The latest version is supported with the latest version of StoreOnce software. For the latest versions supported with older versions of StoreOnce software please refer to a previous support matrix.
2. For StoreOnce 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 use the SPOCK contact web page to request further supportability details.
4. Instant VM recovery (IVMR) is not supported. Autonomic Restart on Multi-node StoreOnce is currently not support on VM Explorer.
5. Synthetic Full backup techniques are not recommended. Exceptions include Data Protector and RMC 3.0+.
6. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
7. Select within NetWorker: Advanced File Type Device (AFTD) option.

Links

SPOCK contact web page: <https://spock.corp.int.hpe.com/SPOCK/Utility/Feedback.aspx>

Hewlett Packard Enterprise - StoreOnce G3 Software & RMC¹

StoreOnce Software Support by RMC version

This table shows the StoreOnce Software version compatibility with RMC. It is recommended to upgrade to the current StoreOnce System Software and current RMC version to take advantage of the latest fixes and features.

| RMC version | Minimum StoreOnce Software version | | | | | | | |
|-------------|------------------------------------|--------|--------|--------|--------|----------------|--------|--------|
| | 3.18.2 | 3.16.2 | 3.15.1 | 3.14.0 | 3.13.3 | 3.13.0 | 3.12.0 | 3.11.2 |
| 5.0.0 | ✓ | | | | | | | |
| 4.1.0 | ✓ | ✓ | ✓ | | ✓ | | | |
| 4.0.0 | ✓ | ✓ | ✓ | | ✓ | | | |
| 3.0.0 | | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| 2.0.2 | | | | ✓ | | ✓ | ✓ | |
| 2.0.0 | | | | ✓ | | ✓ | ✓ | |
| 1.x.x | | | | | | ✓ ² | ✓ | ✓ |

RMC Support for StoreOnce Catalyst Features

This table shows the StoreOnce Catalyst feature support compatibility with RMC releases

| StoreOnce Catalyst Feature | Minimum StoreOnce Software | RMC version | | | |
|----------------------------|----------------------------|----------------|-------|-------|-------|
| | | 5.0.0 | 4.1.0 | 4.0.0 | 3.0.0 |
| CoE | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| CoFC | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| CCoE | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| CCoFC | 3.16.2 | ✓ | ✓ | ✓ | ✓ |
| CBS | 3.18.2 | ✓ | | | |
| CBS Opt Res | 3.18.2 | ✓ ³ | | | |
| CBS Dir Res | 3.18.2 | ✓ ³ | | | |
| CBS Detach | n/a | | | | |
| CBS MR | n/a | | | | |
| FedCat | n/a | | | | |
| DI | n/a | | | | |

Notes

1. See the RMC Support Matrix for additional compatibility information
2. HPE StoreOnce System Software versions 3.13.1 and above are supported only from RM 1.2.1 and above
3. Element Recovery Technology (ERT) not supported with Cloud Bank Storage

Links

RMC Support Matrices: https://h20272.www2.hp.com/spock/Pages/spock2Html.aspx?htmlFile=dp_recovery_manager.html&lang=en&cc=us&hpappid=117135_SPOCK_PRO_HPE (requires HPE Passport to access)

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - Bridgehead Software

Use this table to see StoreOnce Catalyst features supported by the BridgeHead HDM Release Sets and the minimum StoreOnce software versions required for these StoreOnce Catalyst features. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ¹ | Features | Minimum StoreOnce software | Windows Server x64 | | | |
|--|---------------------|----------------------------|--------------------|---------|------|---------|
| | | | 2016 | 2012 R2 | 2012 | 2008 R2 |
| Bridgehead Software Healthcare Data Management 17b & 17a Release Set | CoE | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | CoFC | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | CCoE | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | CCoFC | n/a | | | | |
| | CBS | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | CBS Opt Res | n/a | | | | |
| | CBS Dir Res | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | CBS Detach | n/a | | | | |
| | CBS MR | n/a | | | | |
| | FedCat ² | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| DI | n/a | | | | | |
| Bridgehead Software Healthcare Data Management 16b & 16a, 15a Release Set | CoE | 3.13.x | ✓ ³ | ✓ | ✓ | ✓ |
| | CoFC | 3.13.x | ✓ ³ | ✓ | ✓ | ✓ |
| | CCoE | 3.13.x | ✓ ³ | ✓ | ✓ | ✓ |
| | CCoFC | n/a | | | | |
| | FedCat ² | 3.13.x | ✓ ³ | ✓ | ✓ | ✓ |

- Notes**
1. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
 2. Federated Catalyst support is for local Catalyst stores on StoreOnce multi-node products.
 3. Only supported with HDM Release Set 16b.

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - Commvault

Use this table to see StoreOnce Catalyst features supported by Commvault and the minimum StoreOnce software versions required for these StoreOnce Catalyst features. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ¹ | Features | Minimum StoreOnce software | Windows Server x64 | | | |
|--|-------------------------------------|----------------------------|--------------------|---------|------|---------|
| | | | 2016 | 2012 R2 | 2012 | 2008 R2 |
| | CoE ² | 3.18.5 | ✓ | ✓ | ✓ | |
| | CoFC ² | 3.18.5 | ✓ | ✓ | ✓ | |
| | CCoE | 3.18.5 | ✓ | ✓ | ✓ | |
| | CCoFC | 3.18.5 | ✓ | ✓ | ✓ | |
| | CBS | 3.18.7 | ✓ | ✓ | ✓ | |
| | CBS Opt Res | 3.18.7 | ✓ | ✓ | ✓ | |
| | CBS Dir Res | 3.18.7 | ✓ | ✓ | ✓ | |
| | CBS Detach | n/a | | | | |
| | CBS MR | n/a | | | | |
| | FedCat | n/a | | | | |
| Commvault Backup and Recovery v11 SP13 | DI | n/a | | | | |
| | Synthetic Full Backups ³ | 3.18.5 | ✓ | ✓ | ✓ | |
| | Incremental Forever Backups | 3.18.5 | ✓ | ✓ | ✓ | |
| | Live Mount | 3.18.5 | ✓ | ✓ | ✓ | |
| | Live Browse | 3.18.5 | ✓ | ✓ | ✓ | |

Notes

1. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
2. Supported in low bandwidth mode, not supported in high bandwidth mode.
3. Commvault Synthetic Full Backups are optimized Synthetic Full Backups using StoreOnce Catalyst Clone technology.

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - Micro Focus Data Protector Express & Micro Focus Data Protector Premium

This table shows the Micro Focus Data Protector support for StoreOnce Catalyst. [This applies to both the Express and Premium editions unless noted.](#) Use this table to see StoreOnce Catalyst features supported, the minimum StoreOnce software version required and the support by operating system. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ⁶ | Features | Minimum StoreOnce software | Windows Server x64 | | | | RHEL x64 | | SLES x64 | | Oracle Linux x64 (UEK, RHKO) | | HP-UX IA64 | Solaris SPARC 64 | | AIX Power | |
|----------------------------------|---------------------------------|----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------------------|----------------|--------------------|--------------------|------------------|----------------|-----|
| | | | 2016 | 2012 R2 | 2012 | 2008 R2 | 7.x | 6.x | 12.x | 11.x | 7.x | 6.x | 11.31 | 11 | 10 | 7.2 | 7.1 |
| Micro Focus Data Protector 10.xx | CoE | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| | CoFC | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ^{1,8} | ✓ ¹ | |
| | CCoE | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| | CCoFC | 3.16.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| | CBS | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| | CBS Opt Res | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| | CBS Dir Res | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| | CBS Detach | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| | CBS MR | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| | FedCat ⁷ | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^{2,3} | ✓ ^{2,3} | ✓ ⁸ | ✓ | |
| | DI | 3.18.2 | ✓ ⁹ | ✓ ⁹ | ✓ ⁹ | ✓ ⁹ | ✓ ⁹ | ✓ ⁹ | ✓ ⁹ | ✓ ⁹ | ✓ ⁹ | ✓ ⁹ | ✓ ^{2,3,9} | ✓ ^{2,3,9} | ✓ ^{8,9} | ✓ ⁹ | |
| | Powron | 3.13.x | ✓ ⁸ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | LivMig | 3.13.x | ✓ ⁸ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | Micro Focus Data Protector 9.0x | CoE | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ | ✓ |
| CoFC | | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ | ✓ ¹ | |
| CCoE | | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ | ✓ | |
| CCoFC | | 3.16.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ | ✓ | |
| CBS | | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| CBS Opt Res | | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| CBS Dir Res | | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| CBS Detach | | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| CBS MR | | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ² | ✓ ² | ✓ ⁸ | ✓ | |
| FedCat ⁷ | | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^{2,3} | ✓ ^{2,3} | ✓ | ✓ | |
| DI | | n/a | | | | | | | | | | | | | | | |
| Powron | 3.13.x | | ✓ ⁵ | ✓ ⁵ | ✓ ⁵ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | |
| LivMig | 3.13.x | | ✓ ⁵ | ✓ ⁵ | ✓ ⁵ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | |

Notes

- Prior to StoreOnce 3.14, CoFC on AIX is by request only. Use the SPOCK contact web page to request further supportability details if planning to connect to StoreOnce over FC from AIX to StoreOnce running versions lower than 3.14.
- SPARC T1 and T2 systems are only supported in high bandwidth mode.
- SPARC T1 and T2 systems do not support Federated Catalyst
- Feature only supported with Data Protector 9.07 or newer. Power-on and Live Migrate reflects mount proxy supported operating systems. For additional support information please refer to the Data Protector Virtualization Support Matrix.
- Feature only supported with Data Protector 9.09 or newer. Power-on and Live Migrate reflects mount proxy supported operating systems. For additional support information please refer to the Data Protector Virtualization Support Matrix.
- Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
- Federated Catalyst supported for local Catalyst stores on StoreOnce multi-node products.
- Supported with Data Protector 10.01 and newer.
- Supported with Data Protector 10.03 and newer.

Links

[Data Protector Support Matrix](#)

[SPOCK contact web page: https://spock.corp.int.hpe.com/SPOCK/Utility/Feedback.aspx](https://spock.corp.int.hpe.com/SPOCK/Utility/Feedback.aspx)

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - Micro Focus VM Explorer

This table shows Micro Focus VM Explorer support for StoreOnce Catalyst. Use this table to see the StoreOnce Catalyst features supported, the minimum StoreOnce software version required and the support by operating system. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ⁶ | Features | Minimum StoreOnce software | Windows Server x64 | | | |
|--|-------------|----------------------------|--------------------|---------|------|---------|
| | | | 2016 | 2012 R2 | 2012 | 2008 R2 |
| Micro Focus VM Explorer 7.1, 7.0 & 6.6 | CoE | 3.16.2 | ✓ | ✓ | ✓ | ✓ |
| | CoFC | 3.16.2 | ✓ | ✓ | ✓ | ✓ |
| | CCoE | 3.16.2 | ✓ | ✓ | ✓ | ✓ |
| | CCoFC | 3.16.2 | ✓ | ✓ | ✓ | ✓ |
| | CBS | n/a | | | | |
| | CBS Opt Res | n/a | | | | |
| | CBS Dir Res | n/a | | | | |
| | CBS Detach | n/a | | | | |
| | CBS MR | n/a | | | | |
| | DI | n/a | | | | |
| | GRT | 3.16.2 | ✓ | ✓ | ✓ | ✓ |
| | IVMR | 3.16.2 | ✓ | ✓ | ✓ | ✓ |
| | CoE | 3.16.2 | ✓ | ✓ | ✓ | ✓ |
| | CoFC | 3.16.2 | ✓ | ✓ | ✓ | ✓ |
| CCoE | 3.16.2 | ✓ | ✓ | ✓ | ✓ | |
| CCoFC | 3.16.2 | ✓ | ✓ | ✓ | ✓ | |
| Micro Focus VM Explorer 6.5 | CBS | n/a | | | | |
| | CBS Opt Res | n/a | | | | |
| | CBS Dir Res | n/a | | | | |
| | CBS Detach | n/a | | | | |
| | CBS MR | n/a | | | | |
| | DI | n/a | | | | |

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - Microsoft SQL Server

This table shows the Microsoft SQL Server versions for which a StoreOnce plug-in is available to enable direct backup to a StoreOnce Catalyst Store on HPE StoreOnce Backup System. Use this table to see which Catalyst features are supported on which operating systems and the minimum versions of StoreOnce software required. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ³ | StoreOnce + plug-in | Features | Minimum StoreOnce software | Windows Server x64 | | | |
|--|---|---------------------|-------------------------------|--------------------|----------------|----------------|----------------|
| | | | | 2016 | 2012 R2 | 2012 | 2008 R2 |
| Microsoft SQL Server 2008 SP2, 2012, 2014, 2016, 2017 ⁴ | + HPE StoreOnce Catalyst Plug-in 1.4.0 for Microsoft SQL Server ^{1,2} | CoE | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | CoFC | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | CCoE | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | CCoFC | 3.16.x | ✓ | ✓ | ✓ | ✓ |
| | | CBS | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | | CBS Opt Res | 3.18.2 | ✓ ⁶ | ✓ ⁶ | ✓ ⁶ | ✓ ⁶ |
| | | CBS Dir Res | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | | CBS Detach | n/a | | | | |
| | | CBS MR | n/a | | | | |
| | | FedCat ⁵ | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | DI | 3.18.2 | ✓ | ✓ | ✓ | ✓ |

Notes

1. Available from hpe.com/storage/StoreOnce/SQLServer
2. The Graphical User Interface for the MS SQL plug-in requires Internet Explorer 9 or newer or Microsoft Edge (for Windows 2016).
3. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
5. Federated Catalyst supported for local Catalyst stores on StoreOnce multi-node products. Federated Catalyst is not supported with Cloud Bank Stores.
6. Optimized restore is enabled with the StoreOnceCatalystCopy utility which is included with the plug-in installation.

Links

[Download plug-in from www.hpe.com/storage/StoreOnce/SQLServer](http://www.hpe.com/storage/StoreOnce/SQLServer)
[Customer Advisory a00025542](#)

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - Oracle RMAN

This table shows the Oracle versions for which a StoreOnce plug-in is available to enable direct backup to a StoreOnce Catalyst Store on HPE StoreOnce Backup System. Use this table to see which Catalyst features are supported on which operating systems and the minimum versions of StoreOnce software required. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ⁵ | StoreOnce + plug-in | Features | Minimum StoreOnce software | Windows Server x64 | | | | RHEL x64 | | SLES x64 | | | Oracle Linux x64 (UEK, RHIO) | | HP-UX IA64 | Solaris SPARC 64 | | AIX Power | |
|--|---|---------------------|----------------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------------------|----------------|----------------|------------------|------------------|------------------|----------------|
| | | | | 2016 | 2012 R2 | 2012 | 2008 R2 | 7.x | 6.x | 12.x | 11.x | 10.x | 7.x | 6.x | 11.31 | 11 | 10 | 7.2 | 7.1 |
| Oracle 11gR2, 12cR1, 12cR2 (Stand Alone, RAC, Exadata, ODA) | HPE StoreOnce Catalyst + Plug-in 3.3.0 for Oracle RMAN ¹ | CoE | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ³ | ✓ ³ | ✓ | |
| | | CoFC | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ³ | ✓ ³ | ✓ ² | |
| | | CCoE | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ³ | ✓ ³ | ✓ | |
| | | CCoFC | 3.16.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ³ | ✓ ³ | ✓ | |
| | | CBS ⁸ | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | CBS Opt Res | 3.18.2 | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ | ✓ ⁷ |
| | | CBS Dir Res | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | CBS Detach | n/a | | | | | | | | | | | | | | | | |
| | | CBS MR | n/a | | | | | | | | | | | | | | | | |
| | | FedCat ⁶ | 3.13.x | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ ^{3,4} | ✓ ^{3,4} | ✓ |
| | | DI | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Notes

1. Available as a zero cost download from HPE.com
2. Prior to StoreOnce 3.14, CoFC on AIX is by request only. Use the SPOCK contact web page to request further supportability details if planning to connect to StoreOnce over FC from AIX to StoreOnce running versions lower than 3.14.
3. SPARC T1 and T2 systems are only supported in high bandwidth mode.
4. SPARC T1 and T2 systems do not support Federated Catalyst
5. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
6. Federated Catalyst supported for local Catalyst stores on StoreOnce multi-node products.
7. Optimized Restore is enabled with the StoreOnceCatalystCopy utility which is included with the plug-in installation.
8. RMAN Application Managed Copies are not supported with Cloud Bank Storage. Disable this option in plugin.conf when using Cloud Bank Storage.

Links

Download plug-in from www.hpe.com/storage/StoreOnce/OracleRMAN
 SPOCK contact web page: <https://spock.corp.int.hpe.com/SPOCK/Utility/Feedback.aspx>

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - SAP HANA (page 1 of 2)

This table shows the SAP HANA versions for which a StoreOnce plug-in is available to enable direct backup to a StoreOnce Catalyst Store on HPE StoreOnce Backup System. Use this table to see which Catalyst features are supported on which operating systems and the minimum versions of StoreOnce software required. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ¹⁰ | StoreOnce + plug-in | Features | Minimum StoreOnce software | RHEL x64 | | SLES x64 for SAP Applications | |
|---|--|--|--|------------------|-----------------|-------------------------------|------------------|
| | | | | 7.x ³ | 6.x | 12 | 11 |
| SAP HANA 2 SPS 02 (Scale-Up HANA/vHANA, Scale-Out HANA) | HPE StoreOnce Catalyst + Plug-in 2.1.0 for SAP HANA ¹ | CoE | 3.13.x | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| | | CoFC | 3.13.x | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| | | CCoE | 3.13.x | ✓ ² | ✓ ² | ✓ ^{2,5} | ✓ ^{2,6} |
| | | CCoFC | 3.16.x | ✓ ² | ✓ ² | ✓ ^{2,5} | ✓ ^{2,6} |
| | | CBS | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | | CBS Opt Res | 3.18.2 | ✓ ¹² | ✓ ¹² | ✓ ¹² | ✓ ¹² |
| | | CBS Dir Res | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | | CBS Detach | n/a | | | | |
| | | CBS MR | n/a | | | | |
| | | FedCat ¹¹ | 3.13.x | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| | | DI | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | | MltStrm ⁷ | 3.13.x | ✓ | ✓ | ✓ ^{5,9} | ✓ ^{6,9} |
| | | SysRep | 3.13.x | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| | | HAF | 3.13.x | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| | | Incr/Diff | 3.13.x | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| | | SysCopy | n/a | | | | |
| | | DT | 3.16.x | ✓ | ✓ | ✓ | ✓ |
| | | StorRep | n/a | | | | |
| | | MDC | 3.16.x | ✓ | ✓ | ✓ | ✓ |
| | | SAP HANA SPS v12 (Scale-Up HANA/vHANA, Scale-Out HANA) | HPE StoreOnce Catalyst + Plug-in 2.1.0 for SAP HANA ¹ | CoE | 3.13.x | ✓ | ✓ |
| CoFC | 3.13.x | | | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| CCoE | 3.13.x | | | ✓ ² | ✓ ² | ✓ ^{2,5} | ✓ ^{2,6} |
| CCoFC | 3.16.x | | | ✓ ² | ✓ ² | ✓ ^{2,5} | ✓ ^{2,6} |
| CBS | 3.18.2 | | | ✓ | ✓ | ✓ | ✓ |
| CBS Opt Res | 3.18.2 | | | ✓ ¹² | ✓ ¹² | ✓ ¹² | ✓ ¹² |
| CBS Dir Res | 3.18.2 | | | ✓ | ✓ | ✓ | ✓ |
| CBS Detach | n/a | | | | | | |
| CBS MR | n/a | | | | | | |
| FedCat ¹¹ | 3.13.x | | | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| DI | 3.18.2 | | | ✓ | ✓ | ✓ | ✓ |
| MltStrm ⁷ | 3.13.x | | | ✓ | ✓ | ✓ ^{5,9} | ✓ ^{6,9} |
| SysRep | 3.13.x | | | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| HAF | 3.13.x | | | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| Incr/Diff | 3.13.x | | | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| SysCopy | 3.13.x | | | ✓ | ✓ | ✓ ⁵ | ✓ ⁶ |
| DT | n/a | | | | | | |
| StorRep | n/a | | | | | | |
| MDC | 3.16.x | | | ✓ | ✓ | ✓ | ✓ |

See notes and links at end of table, on following page.

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - SAP HANA (page 2 of 2)

This table shows the SAP HANA versions for which a StoreOnce plug-in is available to enable direct backup to a StoreOnce Catalyst Store on HPE StoreOnce Backup System. Use this table to see which Catalyst features are supported on which operating systems and the minimum versions of StoreOnce software required. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ¹⁰ | StoreOnce plug-in | Features | Minimum StoreOnce software | RHEL x64 | | SLES x64 for SAP Applications | | | | |
|--|--|--|--|------------------|-----------------|-------------------------------|-----------------|------------------|------------------|----------------|
| | | | | 7.x ³ | 6.x | 12 | 11 | | | |
| SAP HANA SPS v11 (Scale-Up HANA/vHANA, Scale-Out HANA) | + HPE StoreOnce Catalyst Plug-in 2.1.0 for SAP HANA ¹ | CoE | 3.13.x | | ✓ | | ✓ ⁴ | ✓ ⁶ | | |
| | | CoFC | 3.13.x | | ✓ | | ✓ ⁴ | ✓ ⁶ | | |
| | | CCoE | 3.13.x | | | ✓ ² | | ✓ ^{2,4} | ✓ ^{2,6} | |
| | | CCoFC | 3.16.x | | | ✓ ² | | ✓ ^{2,4} | ✓ ^{2,6} | |
| | | CBS | 3.18.2 | | ✓ | | ✓ | ✓ | ✓ | |
| | | CBS Opt Res | 3.18.2 | | ✓ ¹² | | ✓ ¹² | ✓ ¹² | ✓ ¹² | |
| | | CBS Dir Res | 3.18.2 | | ✓ | | ✓ | ✓ | ✓ | |
| | | CBS Detach | n/a | | | | | | | |
| | | CBS MR | n/a | | | | | | | |
| | | FedCar ¹¹ | 3.13.x | | | ✓ | | ✓ ⁴ | ✓ ⁶ | |
| | | DI | 3.18.2 | | ✓ | | ✓ | ✓ | ✓ | |
| | | MltStrm ⁷ | 3.13.x | | | ✓ | | ✓ ^{4,8} | ✓ ^{6,8} | |
| | | SysRep | 3.13.x | | | ✓ | | ✓ ⁴ | ✓ ⁶ | |
| | | HAF | 3.13.x | | | ✓ | | ✓ ⁴ | ✓ ⁶ | |
| | | Incr/Diff | 3.13.x | | | ✓ | | ✓ ⁴ | ✓ ⁶ | |
| | | SysCopy | 3.13.x | | | ✓ | | ✓ ⁴ | ✓ ⁶ | |
| | | StorRep | n/a | | | | | | | |
| | | MDC | 3.16.x | | ✓ | | ✓ | ✓ | ✓ | |
| | | SAP HANA SPS v10 (Scale-Up HANA/vHANA, Scale-Out HANA) | + HPE StoreOnce Catalyst Plug-in 2.1.0 for SAP HANA ¹ | CoE | 3.13.x | | ✓ | | ✓ ⁴ | ✓ ⁶ |
| | | | | CoFC | 3.13.x | | ✓ | | ✓ ⁴ | ✓ ⁶ |
| CCoE | 3.13.x | | | | | ✓ ² | | ✓ ^{2,4} | ✓ ^{2,6} | |
| CCoFC | 3.16.x | | | | | ✓ ² | | ✓ ^{2,4} | ✓ ^{2,6} | |
| CBS | 3.18.2 | | | | ✓ | | ✓ | ✓ | ✓ | |
| CBS Opt Res | 3.18.2 | | | | ✓ ¹² | | ✓ ¹² | ✓ ¹² | ✓ ¹² | |
| CBS Dir Res | 3.18.2 | | | | ✓ | | ✓ | ✓ | ✓ | |
| CBS Detach | n/a | | | | | | | | | |
| CBS MR | n/a | | | | | | | | | |
| FedCar ¹¹ | 3.13.x | | | | | ✓ | | ✓ ⁴ | ✓ ⁶ | |
| DI | 3.18.2 | | | | ✓ | | ✓ | ✓ | ✓ | |
| SysRep | 3.13.x | | | | | ✓ | | ✓ ⁴ | ✓ ⁶ | |
| HAF | 3.13.x | | | | | ✓ | | ✓ ⁴ | ✓ ⁶ | |
| Incr/Diff | 3.13.x | | | | | ✓ | | ✓ ⁴ | ✓ ⁶ | |
| SysCopy | | | | | | | | | | |
| StorRep | n/a | | | | | | | | | |
| MDC | 3.16.x | | | | ✓ | | ✓ | ✓ | ✓ | |

Notes

1. Available from HPE Software Depot at www.hpe.com/storage/StoreOnce/SAP.
2. Copy is executed using an external utility that is included with the plug-in download package.
3. RHEL 7.2 and above is required.
4. Supported on SLES for SAP Applications 12 (no Service Packs).
5. SLES for SAP Applications 12 SP1 is required.
6. SLES for SAP Applications 11 SP3 or SP4, is required.

Notes

7. Please review SAP Service Note 2360533 before using multistream backups
8. SAP HANA revision SPS11.2 PL06 or later is required.
9. SAP HANA revision SPS12.2 PL02 or later is required.
10. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
11. Federated Catalyst supported for local Catalyst stores on StoreOnce multi-node products. Federated Catalyst is not supported with Cloud Bank Stores.
12. Optimized restore is enabled with the StoreOnceCatalystCopy utility which is included with the plug-in installation.

Links

Download for StoreOnce Plug-in for SAP HANA - requires HPE Passport logon credentials
 SAP support note 2360533 for multistream backups: <https://websmp130.sap-ag.de/sap/support/notes/2360533> (requires SAP support logon credentials)

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - Veeam Backup & Replication

This table shows the Veeam Backup & Replication support for StoreOnce Catalyst. Use this table to see StoreOnce Catalyst features supported, the minimum StoreOnce software version required and the support by operating system. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ² | Features | Minimum StoreOnce software | Windows Server x64 | | | | RHEL x64 | | SLES x64 | |
|---|---------------------|----------------------------|--------------------|---------|------|---------|----------|-----|----------|------|
| | | | 2016 | 2012 R2 | 2012 | 2008 R2 | 7.x | 6.x | 12.x | 11.x |
| Veeam Backup & Replication v9.5 ¹ | CoE | 3.13.1 | ✓ | ✓ | ✓ | ✓ | | | | |
| | CoFC | 3.13.1 | ✓ | ✓ | ✓ | ✓ | | | | |
| | CCoE | n/a | | | | | | | | |
| | CCoFC | n/a | | | | | | | | |
| | CBS | n/a | | | | | | | | |
| | CBS Opt Res | n/a | | | | | | | | |
| | CBS Dir Res | n/a | | | | | | | | |
| | CBS Detach | n/a | | | | | | | | |
| | CBS MR | n/a | | | | | | | | |
| | FedCat ³ | n/a | | | | | | | | |
| | DI | n/a | | | | | | | | |
| | IVMR | 3.15.1 | ✓ | ✓ | ✓ | ✓ | | | | |
| | ODS | 3.15.1 | ✓ | ✓ | ✓ | ✓ | | | | |
| | SB | 3.15.1 | ✓ | ✓ | ✓ | ✓ | | | | |
| Veeam Backup & Replication v9 U2 ¹ | CoE | 3.13.1 | | ✓ | ✓ | ✓ | | | | |
| | CoFC | 3.13.1 | | ✓ | ✓ | ✓ | | | | |
| | CCoE | n/a | | | | | | | | |
| | CCoFC | n/a | | | | | | | | |
| | CBS | n/a | | | | | | | | |
| | CBS Opt Res | n/a | | | | | | | | |
| | CBS Dir Res | n/a | | | | | | | | |
| | CBS Detach | n/a | | | | | | | | |
| | CBS MR | n/a | | | | | | | | |
| | FedCat ³ | n/a | | | | | | | | |
| | DI | n/a | | | | | | | | |
| | IVMR | n/a | | | | | | | | |
| | ODS | n/a | | | | | | | | |
| | SB | n/a | | | | | | | | |

Notes

1. Recommended minimum version is 9.0 U2 – see Configuration Guide for more information.
2. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
3. Federated Catalyst supported for local Catalyst stores on StoreOnce multi-node products. Federated Catalyst is not supported with Cloud Bank Stores.

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - Veritas Backup Exec

This StoreOnce Catalyst plug-in for Backup Exec allows StoreOnce Systems to be managed as OpenStorage Technology (OST) devices and to use OST features with StoreOnce Catalyst backup targets. Use this table to see the supported Backup Exec versions, plug-in version, Master Server operating systems, OST features supported and the minimum StoreOnce software version required. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ³ | + HPE Plug-in | Catalyst & OST features | Minimum HPE Plug-in | Minimum StoreOnce software | Windows Server 2016 x86 | Windows Server 2012 R2 x86 | Windows Server 2012 x86 | Windows Server 2008 R2 x86 |
|--------------------------|---|-------------------------|---------------------|----------------------------|-------------------------|----------------------------|-------------------------|----------------------------|
| Veritas Backup Exec 16 | + HPE StoreOnce Catalyst Plug-in 4.2.0 for Veritas Backup Exec ⁴ | CoE | 4.1.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | CoFC ⁵ | 4.1.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | CBS | n/a | n/a | | | | |
| | | CBS Opt Res | n/a | n/a | | | | |
| | | CBS Dir Res | n/a | n/a | | | | |
| | | CBS Detach | n/a | n/a | | | | |
| | | CBS MR | n/a | n/a | | | | |
| | | FedCat ⁴ | 4.1.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | DI | | | | | | |
| | | Opt_Dup ² | 4.1.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | GRT | 4.1.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| Veritas Backup Exec 15 | + HPE StoreOnce Catalyst Plug-in 4.2.0 for Veritas Backup Exec ⁴ | CoE | 4.1.1 | 3.13.x | | ✓ | ✓ | ✓ |
| | | CoFC ⁵ | n/a | n/a | | | | |
| | | CBS | n/a | n/a | | | | |
| | | CBS Opt Res | n/a | n/a | | | | |
| | | CBS Dir Res | n/a | n/a | | | | |
| | | CBS Detach | n/a | n/a | | | | |
| | | CBS MR | n/a | n/a | | | | |
| | | FedCat ⁴ | 4.1.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | DI | | | | | | |
| | | Opt_Dup ² | 4.1.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | GRT | 4.1.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| Veritas Backup Exec 2014 | + HPE StoreOnce Catalyst Plug-in 4.2.0 for Veritas Backup Exec ⁴ | CoE | 2.0.1 | 3.13.x | | ✓ | ✓ | ✓ |
| | | CoFC ⁵ | n/a | n/a | | | | |
| | | CBS | n/a | n/a | | | | |
| | | CBS Opt Res | n/a | n/a | | | | |
| | | CBS Dir Res | n/a | n/a | | | | |
| | | CBS Detach | n/a | n/a | | | | |
| | | CBS MR | n/a | n/a | | | | |
| | | FedCat ⁴ | 4.1.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | DI | | | | | | |
| | | Opt_Dup ² | 2.0.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |
| | | GRT | 4.1.1 | 3.13.x | ✓ | ✓ | ✓ | ✓ |

Notes

1. Available from hpe.com/storage/StoreOnce/VERITAS
2. The minimum StoreOnce software version for optimized duplication using CoFC is 3.16.x. There is no minimum StoreOnce software version for optimized duplication using CoE.
3. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
4. Federated Catalyst supported for local Catalyst stores on StoreOnce multi-node products. Federated Catalyst is not supported with Cloud Bank Stores.
5. CoFC was supported with StoreOnce 3.13 to 3.16. There is no supported for newer StoreOnce software versions to align with Veritas' support coverage.

Links

Download for StoreOnce Plug-in for Veritas NetBackup OST - requires HPE Passport logon credentials
 SPOCK contact web page: <https://spock.corp.int.hpe.com/SPOCK/Utility/Feedback.aspx>
 Backup Exec 2016 Hardware Compatibility List: https://www.veritas.com/content/support/en_US/doc/BE_16_HCL
 Backup Exec 2015 Hardware Compatibility List: https://www.veritas.com/content/support/en_US/doc/BE_15_HCL
 Backup Exec 2014 Hardware Compatibility List: https://www.veritas.com/content/support/en_US/doc/BE_2014_HCL

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - Veritas NetBackup

This StoreOnce Catalyst plug-in for NetBackup allows StoreOnce Systems to be managed as OpenStorage Technology (OST) devices and to use OST features with StoreOnce Catalyst backup targets. Use this table to see the supported NetBackup versions, plug-in version, Master Server operating systems, OST features supported and the minimum StoreOnce software version required. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ⁸ | + HPE Plug-In | Catalyst & OST features | Minimum HPE Plug-In | Minimum StoreOnce software | Windows Server x64 | | | | RHEL x64 | | SLES x64 | | Oracle Linux x64 ¹⁰ | | HP-UX IA64 | Solaris SPARC 64 | | AIX Power | | | |
|--------------------------------------|---|-------------------------|---------------------|----------------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|----------------|----------------|------------------|----------------|----------------|----------------|----------------|----------------|
| | | | | | 2016 | 2012 R2 | 2012 | 2008 R2 | 7.x | 6.x | 12.x | 11.x | 7.x | 6.x | 11.31 | 11 | 10 | 7.2 | 7.1 | | |
| Veritas NetBackup 8.1.x ¹ | + HPE StoreOnce Catalyst Plug-In 4.2.0 for Veritas NetBackup ² | CoE | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| | | CoFC | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | CBS | 3.1.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | CBS Opt Res | 3.1.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | CBS Dir Res | 3.1.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | CBS Detach | 3.1.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | CBS MR | 3.1.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | FedCat ⁹ | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | DI | 4.2.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | Opt_Dup ⁷ | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | WI_Opt_Dup ⁷ | 4.0.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | Accelerator | 3.1.5 | 3.13.3 | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ |
| | | Accel_HyperV | 4.2.0 | 3.13.3 | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ |
| | | Accel_NDMP | 4.0.1 | 3.13.3 | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ |
| | | Accel_VMware | 3.1.5 | 3.13.3 | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ |
| | | A.I.R. ¹¹ | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | Targeted_A.I.R. | 3.1.2 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | GRT | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | GRT_VMware | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | IR_VMware | 4.0.0 | 3.15.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Veritas NetBackup 7.7 ¹ | + HPE StoreOnce Catalyst Plug-In 4.2.0 for Veritas NetBackup ² | CoE | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| | | CoFC | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | CBS | 3.1.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | CBS Opt Res | 3.1.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | CBS Dir Res | 3.1.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | CBS Detach | 3.1.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | CBS MR | 3.1.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | FedCat ⁹ | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | DI | 4.2.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Opt_Dup ⁷ | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | WI_Opt_Dup ⁷ | 4.0.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Accelerator | 3.1.5 | 3.13.3 | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ |
| | | Accel_HyperV | 4.2.0 | 3.13.3 | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | |
| | | Accel_NDMP | 4.0.1 | 3.13.3 | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | |
| | | Accel_VMware | 3.1.5 | 3.13.3 | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | ✓ ⁴ | |
| | | A.I.R. ¹¹ | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Targeted_A.I.R. | 3.1.2 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | GRT | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | GRT_VMware | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | IR_VMware | 4.0.0 | 3.15.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

Notes

- LSU spanning is not supported.
- Available from hpe.com/storage/StoreOnce/VERITAS
- Prior to StoreOnce 3.14, CoFC on AIX is by request only. Use the SPOCK contact web page to request further supportability details if planning to connect to StoreOnce over FC from AIX to StoreOnce running versions lower than 3.14.
- NetBackup Accelerator is supported in low bandwidth mode only, it is not supported in high bandwidth mode.
- SPARC T1 and T2 systems are only supported in high bandwidth mode.
- SPARC T1 and T2 systems do not support Federated Catalyst.
- The minimum StoreOnce software version for optimized duplication to a CoFC store is 3.16.x. There is no minimum StoreOnce software version for optimized duplication using CoE.
- Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.
- Federated Catalyst supported for local Catalyst stores on StoreOnce multi-node products. Federated Catalyst is not supported with Cloud Bank Stores.
- UEK and RHK
- Reverse A.I.R. is supported with this solution. For more information on replicating an image back to the source master server, see https://www.veritas.com/support/en_US/article.TECH205923

Links

Download for StoreOnce Plug-in for Veritas NetBackup OST (requires HPE Passport logon credentials): <https://h20392.www2.hpe.com/portal/swdepot/displayProductInfo.do?productNumber=StoreOnceForVERITAS>

SPOCK contact web page: <https://spock.corp.int.hpe.com/SPOCK/Utility/Feedback.aspx>

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Application Support - Veritas NetBackup Appliance

This StoreOnce Catalyst plug-in for NetBackup allows StoreOnce Systems to be managed as OpenStorage Technology (OST) devices and to use OST features with StoreOnce Catalyst backup targets. Use this table to see the supported NetBackup Appliance versions, plug-in version, Master Server operating systems, OST features supported and the minimum StoreOnce software version required. It is recommended to use the current StoreOnce System Software to take advantage of the latest fixes and features.

| Application ⁶ | + Current HPE Plug-in | Catalyst & OST features | Minimum HPE Plug-in | Minimum StoreOnce software | NetBackup Appliance 3.1.x | NetBackup Appliance 3.0.x | NetBackup Appliance 2.7.x | NetBackup Appliance 2.6.x |
|---|--|-------------------------|---------------------|----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Netbackup Appliance ¹ 52xx/53xx | + HPE StoreOnce Catalyst Plug-in 4.2.0 for Veritas NetBackup Appliance ² | CoE | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ |
| | | CoFC | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ |
| | | CBS | 4.2.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | | CBS Detach | 4.2.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | | CBS MR | 4.2.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | | FedCat ⁴ | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ |
| | | DI | 4.2.0 | 3.18.2 | ✓ | ✓ | ✓ | ✓ |
| | | Opt_Dup ⁵ | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ |
| | | WJ_Opt_Dup ⁵ | 4.0.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ |
| | | Accelerator | 3.1.5 | 3.13.3 | ✓ ³ | ✓ ³ | ✓ ³ | ✓ ³ |
| | | Accel_HyperV | 4.2.0 | 3.18.5 | ✓ ³ | ✓ ³ | ✓ ³ | ✓ ³ |
| | | Accel_NDMP | 4.2.0 | 3.18.5 | ✓ ³ | ✓ ³ | ✓ ³ | ✓ ³ |
| | | Accel_VMware | 3.1.5 | 3.13.3 | ✓ ³ | ✓ ³ | ✓ ³ | ✓ ³ |
| | | A.I.R. | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ |
| | | Targeted_A.I.R. | 3.1.2 | 3.13.1 | ✓ | ✓ | ✓ | ✓ |
| | | GRT | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ |
| | | GRT_VMware | 3.1.0 | 3.13.1 | ✓ | ✓ | ✓ | ✓ |
| | | IR_VMware | 4.0.0 | 3.15.1 | ✓ | ✓ | ✓ | ✓ |

Notes

1. LSU spanning is not supported.
2. Available from HPE Software Depot
3. NetBackup Accelerator is supported in low bandwidth mode only, it is not supported in high bandwidth mode.
4. Federated Catalyst supported for local Catalyst stores on StoreOnce multi-node products. Federated Catalyst is not supported with Cloud Bank Stores.
5. The minimum StoreOnce software version for optimized duplication to a CoFC store is 3.16.x. There is no minimum StoreOnce software version for optimized duplication using CoE.
6. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.

Links

HPE Software Depot download page for StoreOnce Plug-in for Veritas NetBackup OST: <https://h20392.www2.hpe.com/portal/swdepot/displayProductInfo.do?productNumber=StoreOnceForVERITAS>
 SPOCK contact web page: <https://spock.corp.int.hpe.com/SPOCK/Utility/Feedback.aspx>

Hewlett Packard Enterprise - StoreOnce G3 Catalyst Cloud Bank Storage

HPE qualified object storage for Cloud Bank Storage

This table shows the object storage vendors and services that Hewlett Packard Enterprise has tested and supports for use with Cloud Bank Storage.

| Vendor | Service / System | Supported | Notes |
|---------------------|---|-----------|---|
| Amazon Web Services | Simple Storage Service (S3) Standard | ✓ | Reduced Redundancy Storage is not supported. |
| | Simple Storage Service (S3) Infrequent Access | ✓ | Cross region replication (CRR) is not supported. |
| | Glacier | | |
| HPE Scality | S3 Server | ✓ | |
| Microsoft Azure | Page Blob Service Hot | ✓ | Replication must be Locally Redundant (LRS). |
| | Page Blob Service Cool | ✓ | ZRS, GRS, RA-GRS replication options are not supported. |
| | Page Blob Service Archive | | |

Storage system/service vendor qualified object storage for Cloud Bank Storage

This table shows the object storage systems and services that have been tested by the storage vendor for use with Cloud Bank Storage.

| Vendor | Service / System | Supported | Notes |
|-------------------------------|-----------------------------|-----------|--|
| ACP IT Solutions | ACP CS ³ Storage | ✓ | See ACP CS ³ home page for more details. Business hours support is available in the countries where the service is available from email: info@acpcloud.rocks. |
| Cloudian | HyperStore S3 | ✓ | See Cloudian web pages for product and support information |
| HPE SUSE Enterprise Storage 5 | S3-compatible | ✓ | See SUSE web pages for SUSE Enterprise Storage 5. |

Third-party qualified object storage for Cloud Bank Storage

This table shows the object storage systems and services that have been tested by third parties for use with Cloud Bank Storage.

| Vendor | Service / System | Supported | Notes |
|--------------------------|------------------|-----------|--|
| IBM Cloud Object Storage | S3-compatible | ✓ | For more information see IBM Cloud Object Storage System web pages. For support contact 1-800-426-7378 or www.ibm.com/support |

Links

Amazon S3 Storage Classes: <https://aws.amazon.com/s3/storage-classes/>

QuickSpec for Scality RING Object Storage Software for HPE Apollo Systems: <https://h20195.www2.hp.com/v2/GetPDF.aspx/c04434896.pdf?ver=6>

Microsoft Azure Blob Storage: <https://docs.microsoft.com/en-us/azure/storage/blobs/storage-blobs-introduction>

ACP CS³ Storage home page: <http://www.acpcloud.rocks/shop/acp-cloud/virtual-data-center/acp-cs3-storage/>

Web pages for SUSE Enterprise Storage 5: <https://www.suse.com/documentation/suse-enterprise-storage-5/>

QuickSpec for SUSE Linux Enterprise Server products from HPE: <https://h20195.www2.hp.com/v2/GetPDF.aspx/c04154457.pdf>

IBM Cloud Object Storage System web pages: https://www.ibm.com/support/home/product/10000648/IBM_Cloud_Object_Storage_System

Hewlett Packard Enterprise - StoreOnce G3 Backup Application Support - Autonomic Restart¹

This table shows backup software that supports the StoreOnce Autonomic Restart feature of the StoreOnce Multi-Node Systems.

| Application ³ | Minimum StoreOnce software | Windows Server x64 | | | RHEL x64 | | | SLES x64 | | Oracle Linux x64 (UEK, RHK) | | | HP-UX IA64 | Solaris SPARC 64 | | AIX Power | | |
|--|----------------------------|--------------------|---------|------|----------|-----|-----|----------|------|-----------------------------|-----|-----|------------|------------------|----------------|-----------|-----|-----|
| | | 2016 | 2012 R2 | 2012 | 2008 R2 | 7.x | 6.x | 5.x | 12.x | 11.x | 7.x | 6.x | 5.x | 11.31 | 11 | 10 | 7.2 | 7.1 |
| Bridgehead HDM 16b, 16a & 15a | 3.13.x | | ✓ | ✓ | ✓ | | | | | | | | | | | | | |
| Micro Focus Data Protector 10.0x | 3.13.x | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |
| Micro Focus Data Protector 9.0x | 3.13.x | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | |
| Oracle 10g, 11g, 12c (Stand Alone, RAC, Exadata, ODA) | 3.13.x | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ ² | ✓ ² | | ✓ | |
| Microsoft SQL Server 2008 SP2, 2012, 2014 | 3.13.x | | ✓ | ✓ | ✓ | | | | | | | | | | | | | |
| SAP HANA SPS v8, 9 | 3.13.x | | | | | | ✓ | | ✓ | | | | | | | | | |
| SAP on Oracle 11g, 12c (Stand Alone, RAC on File System) | 3.13.1 | | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | | | | | | ✓ |
| Veeam Backup & Replication v9 | n/a | | | | | | | | | | | | | | | | | |
| Veritas Backup Exec (all versions) | n/a | | | | | | | | | | | | | | | | | |
| Veritas NetBackup 8.x | 3.13.x | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ ² | ✓ ² | | ✓ | |
| Veritas NetBackup 7.7 | 3.13.x | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ ² | ✓ ² | | ✓ | |
| Veritas NetBackup Appliance 52xx/53xx | 3.13.x | | | | | | | | ✓ | ✓ | | | | | | | | |

Notes

1. Please use the SPOCK contact web page to request further details 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. Application level deduplication, compression, and encryption are not supported with HPE StoreOnce. Please use the HPE StoreOnce implementation of these features.

Links

SPOCK contact web page: <https://spock.corp.int.hpe.com/SPOCK/Utility/Feedback.aspx>

Hewlett Packard Enterprise - StoreOnce G3 Native Operating System Backup Support

This table shows support for operating systems' native backup utilities for backup to StoreOnce Systems.

| Operating System | Windows Backup | TAR ² | CPIO ² | DD ² | Fbackup / Frestore ¹ | ufsdump / ufsrestore ² | Native Save/Restores ³ |
|---------------------------------|----------------|------------------|-------------------|-----------------|---------------------------------|-----------------------------------|-----------------------------------|
| Windows Server 2012 R2 (x64) | | | | | | | |
| Windows Server 2012 (x64) | | | | | | | |
| Windows Server 2008 R2 (x64) | | | | | | | |
| 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 7.2 (Power) | | ✓ | ✓ | ✓ | | | |
| AIX 7.1 (Power) | | ✓ | ✓ | ✓ | | | |
| IBM i V7R2M0 (Power) | | | | | | | ✓ |
| IBM i V7R1M0 (Power) | | | | | | | ✓ |

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 - StoreOnce G3 Support for Encryption Key Management Products

This table shows compatibility between current StoreOnce System software and centralized encryption key management products.

| Key Management Product | Latest Supported | Earliest Supported | StoreOnce 3.18.x | StoreOnce 3.16.x |
|---|------------------|--------------------|------------------|------------------|
| Micro Focus Enterprise Secure Key Manager 5 (using KMIP 1.1 standard) ² | 7.0.3 (ESKM 5.0) | 7.0.2 (ESKM 5.0) | ✓ | ✓ |
| Micro Focus Enterprise Secure Key Manager 4 (using KMIP 1.1 standard) ² | 6.2.2 (ESKM 4.2) | 6.1.0 (ESKM 4.1) | ✓ ³ | ✓ ³ |
| Gemalto SafeNet KeySecure k150 (using KMIP 1.1 standard) ^{1,4} | 8.6 | 6.6.1 | ✓ | ✓ |
| Gemalto SafeNet KeySecure k150v (using KMIP 1.1 standard) ¹ | 8.6 | 6.6.1 | ✓ | ✓ |
| Gemalto SafeNet KeySecure k250 (using KMIP 1.1 standard) ¹ | 8.6 | 6.6.1 | ✓ | ✓ |
| Gemalto SafeNet KeySecure k450 (using KMIP 1.1 standard) ¹ | 8.6 | 6.6.1 | ✓ | ✓ |
| Gemalto SafeNet KeySecure k450v (using KMIP 1.1 standard) ¹ | 8.6 | 6.6.1 | ✓ | ✓ |
| Gemalto SafeNet KeySecure k460 (using KMIP 1.1 standard) ^{1,5} | 8.6 | 6.6.1 | ✓ | ✓ |

Notes

1. Refer to the KeySecure Interoperability website for additional information.
2. For more details visit the Micro Focus web site for the Enterprise Secure Key Management product
3. Customer self-renewal of expired client certificates supported with minimum StoreOnce 3.15.2 and ESKM 4.2 (6.2.2) or ESKM 5.0 (7.0.2).
4. End of life cycle.
5. Units based on the R610 chassis are end of life cycle. Successive releases of the k460 on the R320 chassis and R330 appliances are still supported.

Links

- [Micro Focus Enterprise Key Management web page](#)
[Gemalto Key Secure Interoperability web page](#)

Hewlett Packard Enterprise - StoreOnce G3 - HP-UX (Integrity) Direct Attach & SAN Support

These tables show the supported Operating System versions, Servers and Adapters for HP-UX connectivity to StoreOnce. Compatibility between the data protection application and HP-UX should be verified using the data protection application vendor's support matrix. The QuickSpec for the Server should be consulted to verify compatibility with the Adapter.

| Operating Systems | Version |
|----------------------|-------------------------------|
| HP-UX 11i v3 (11.31) | HWE & QPK bundles, March 2016 |

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

| Adapter | Description | Interface | Firmware | 11iv3 Driver |
|--|------------------------------------|-----------|------------|--------------|
| CN1100E (AT111A) | 10GbE CNA | PCI-e | 4.9.416.12 | B.11.31.1705 |
| NC553m (613431-B21) | 10GbE HPE BladeSystem CNA | | 4.9.416.12 | B.11.31.1705 |
| NC553i | 10GbE HPE BladeSystem CNA | | 4.9.416.12 | B.11.31.1705 |
| SN1000Q (B9F23A & B9F24A) | 16Gb FC HBA | PCI-e | 6.07.02 | B.11.31.1705 |
| B1Q (AH400A) & B2Q (AH401A) ¹ | 8Gb FC HBAs | PCI-e | 5.06.06 | B.11.31.1705 |
| B1E (AH402A) & B2E (AH403A) ¹ | 8Gb FC HBAs | PCI-e | 2.02x2 | B.11.31.1603 |
| AT094A (FC) ¹ | 8Gb FC HBAs | PCI-e | 2.02x2 | B.11.31.1603 |
| AT094A (FCoE) | 10Gb FCoE HBAs | PCI-e | 4.9.416.12 | B.11.31.1705 |
| QMH2562 (451871-B21) ¹ | 8Gb HPE BladeSystem c-Class FC HBA | | 5.06.06 | B.11.31.1705 |
| LPe1205 (456972-B21) ¹ | 8Gb HPE BladeSystem c-Class FC HBA | | 2.02x2 | B.11.31.1603 |
| AD299A & AD355A ¹ | 4Gb FC HBA | PCI-e | 2.82x4 | B.11.31.1603 |
| AD300A ¹ | 4Gb FC HBA | PCI-e | 5.03.15 | B.11.31.1705 |
| AD221A, AD222A & AD393A ¹ | 4Gb FC HBA Combo Card | PCI-e | 2.82x4 | B.11.31.1603 |
| AD193A & AD194A ¹ | 4Gb FC HBA Combo Card | PCI-X 2.0 | 5.03.15 | B.11.31.1705 |
| AB379A, AB379B, AB378A & AB378B ¹ | 4Gb FC HBA | PCI-X 2.0 | 5.03.15 | B.11.31.1705 |
| QMH2462 (403619-B21) ¹ | 4Gb HPE BladeSystem c-Class FC HBA | PCI-e | 5.03.15 | B.11.31.1705 |
| LPe1105 (403621-B21) | 4Gb HPE BladeSystem c-Class FC HBA | PCI-e | 2.82x4 | B.11.31.1603 |

Notes

1. Direct attached FC not supported.

Links

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

Hewlett Packard Enterprise - StoreOnce G3 - Windows 20GbE CNAs

These tables show the supported Windows operating systems, servers and 10GbE CNAs for direct attach and SAN connectivity to StoreOnce Systems.

| Operating System | Supported |
|--|-----------|
| Windows Server 2016 x64, (Windows 2016 Hyper-V Server) ⁵ , (Windows Storage Server 2016) ¹ | ✓ |
| Windows Server 2012 R2 & 2012 x64, (Windows 2012 Hyper-V Server) ⁵ , (Windows Storage Server 2012 / 2012 R2) ¹ | ✓ |
| Windows Server 2008 R2 SP2 x64 (Windows Storage Server 2008 R2 SP2) ² | ✓ |
| Windows Server 2008 SP2 (x86/x64) ⁴ | ✓ |

| Server | Supported |
|--|-------------------------------------|
| HPE ProLiant DL, ML & HPE ProLiant BladeSystem c-Class | ✓ |
| HPE Synergy Compute Module | ✓ |
| HPE StoreEasy Storage ¹ / 3Par StoreServ File Controller ¹ / StoreVirtual File Controller ¹ | ✓ |
| HPE E5000 G2 Messaging Systems ^{4,7} | ✓ |
| 3rd Party Servers | iSCSI & Catalyst over Ethernet only |

| Adapter | Description | Interface | Firmware | FC StorPort Driver | NIC Driver | iSCSI StorPort Driver |
|---|---------------------------|-----------|---|--|---|--|
| 630FLB (700065-B21) ³ & 630M (700076-B21) ³ | 20GbE HPE BladeSystem CNA | PCI-e | 7.14.3 | Win 2016 & 2012R2:7.14.15 Win2008R2 & 2008SP2: 7.14.10 | Win 2016 & 2012R2 - 7.13.104.0 Win 2008R2 & 2008x64 - 7.13.103.0 | Win 2016 & 2012R2 - 7.14.4.0 Win 2008R2 & 2008x64 - 7.14.3.0 |
| 650FLB (700763-B21) (PCI-e) & 650M (700767-B21) | 20GbE HPE BladeSystem CNA | PCI-e | Win2016:11.2.1263.19 Win2012R2: 11.2.1263.19 Win2008R2:11.1.183.62 Win2008:11.1.183.62 | Win2016:11.2.1135.0(b) Win2012R2:11.2.1135.0(b) Win2008R2:11.1.145.16 Win2008:11.1.145.16 | Win 2016:11.2.1153.13 Win 2012R2:11.2.1153.13 Win 2008R2:11.1.145.30(B) Win 2008 :11.1.145.30(B) | Win 2016:11.2.1153.23 Win 2012R2:11.2.1153.23 Win 2008R2:11.1.185.0(B) Win 2008:11.1.185.0(B) |
| Synergy 3820C (777430-B21) | 20GbE HPE Synergy CNA | PCI-e | 7.14.3 | Win 2016 & 2012R2:7.14.15 | Win 2016 & 2012R2 - 7.13.104.0 | Win 2016 & 2012R2 - 7.14.4.0 |

- Notes**
1. Supports HPE StoreEasy: 5530, 3840, 3830, 1850, 1840, 1830, 1650, 1640, 1630, 1550, 1540, 1530, 1450, 1440, 1430 & HPE StoreEasy Gateway Storage Blade: 3850, 3840, 3830 & HPE 3PAR StoreServ File Controller v2 & HPE StoreVirtual 3000 File Controller.
 2. Supports Messaging Systems E5300, E5500, E5700 and HPE Network Storage Systems X5520 G2, X3800sb G2, 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. Virtual FC HBA Driver only supported on Windows 2016 and Windows 2012 & 2012 R2 Guest VMs
 6. Virtual FC HBA Driver only supported on Windows 2012 & 2012 R2 Guest VM
 7. Windows 2016 not supported

Links
HPE Servers Support & Certification Matrices http://h17007.www1.hp.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#WqJdCejKUn

Hewlett Packard Enterprise - StoreOnce G3 - Windows 10GbE CNAs^{10, 11}

These tables show the supported Windows operating systems, servers and 10GbE CNAs for direct attach and SAN connectivity to StoreOnce Systems.

| Operating Systems | Supported |
|--|-----------|
| Windows Server 2016 x64, (Windows 2016 Hyper-V Server) ⁸ , (Windows Storage Server 2016) ¹ | ✓ |
| Windows Server 2012 R2 & 2012 x64, (Windows 2012 Hyper-V Server) ⁸ , (Windows Storage Server 2012 / 2012 R2) ¹ | ✓ |
| Windows Server 2008 R2 SP2 x64 (Windows Storage Server 2008 R2 SP2) ² | ✓ |
| Windows Server 2008 SP2 (x86/x64) ⁴ | ✓ |

| Servers | Supported |
|--|-------------------------------------|
| HPE ProLiant DL, ML & HPE ProLiant BladeSystem c-Class | ✓ |
| HPE StoreEasy Storage ¹ / 3Par StoreServ File Controller ¹ / StoreVirtual File Controller ¹ | ✓ |
| HPE E5000 G2 Messaging Systems ^{2,9} | ✓ |
| 3rd Party Systems | iSCSI & Catalyst over Ethernet only |

| Adapter | Description | Interface | Firmware | FC StorPort Driver | NIC Driver | iSCSI StorPort Driver |
|--|---------------|-----------|---|--|--|--|
| CN1000E (AW520A) | 10GbE HPE CNA | PCI-e | | | iSCSI support only | |
| CN1000Q (B5668A) ⁹ & 526FLR (629138-B21) ⁹ | 10GbE HPE CNA | PCI-e | 4.0.0.21 C | 9.1.13.10 | 5.3.32.1130 | 2.1.6.10 |
| CN1200E (E7Y06A) | 10GbE HPE CNA | PCI-e | Win2016:11.2.1263.19 Win2012R2: 11.2.1263.19 Win2008R2:11.1.183.62 Win2008:11.1.183.62 | Win2016:11.2.1135.0(b) Win2012R2:11.2.1135.0(b) Win2008R2:11.1.145.16 Win2008:11.1.145.16 | Win 2016:11.2.1153.13 Win 2012R2:11.2.1153.13 Win 2008R2:11.1.145.30(B) Win 2008:11.1.145.30(B) | Win 2016:11.2.1153.23 Win 2012R2:11.2.1153.23 Win 2008R2:11.1.185.0(B) Win 2008:11.1.185.0(B) |
| 556FLR (727060-B21) ³ | 10GbE HPE CNA | PCI-e | Win2016:11.2.1226.20 Win2012R2: 11.2.1226.20 Win2008R2:11.1.183.62 Win2008:11.1.183.62 | Win2016:11.2.1135.0(b) Win2012R2:11.2.1135.0(b) Win2008R2:11.1.145.16 Win2008:11.1.145.16 | Win 2016:11.2.1153.13 Win 2012R2:11.2.1153.13 Win 2008R2:11.1.145.30(B) Win 2008:11.1.145.30(B) | Win 2016:11.2.1153.23 Win 2012R2:11.2.1153.23 Win 2008R2:11.1.185.0(B) Win 2008:11.1.185.0(B) |
| CN1100E (BK835A) | 10GbE HPE CNA | PCI-e | 11.1.183.23 | 11.1.145.16 | Win 2016:11.1.196.4(B) Win 2012R2:11.1.145.30(B) Win 2008R2:11.1.145.30(B) Win 2008 P2:11.1.145.30(B) | 11.1.185.0(B) |
| 554FLR (629142-B21) ⁵ | 10GbE HPE CNA | PCI-e | 11.1.183.23 | 11.1.145.16 | Win 2016:11.1.196.4(B) Win 2012R2:11.1.145.30(B) Win 2008R2:11.1.145.30(B) Win 2008 P2:11.1.145.30(B) | 11.1.185.0(B) |
| CN1100R (QW990A) | 10GbE HPE CNA | PCI-e | 7.14.3 | Win 2016 & 2012R2:7.14.15 Win2008R2 & 2008SP2: 7.14.10 | Win 2016 & 2012R2: 7.13.104.0 Win 2008R2 & 2008SP2: 7.13.103.0 | Win 2016 & 2012R2: 7.14.4.0 Win 2008R2 & 2008SP2: 7.14.3.0 |
| 534FLR (700751-B21) ³ | 10GbE HPE CNA | PCI-e | 7.14.3 | Win 2016 & 2012R2:7.14.15 Win2008R2 & 2008SP2: 7.14.10 | Win 2016 & 2012R2: 7.13.104.0 Win 2008R2 & 2008SP2: 7.13.103.0 | Win 2016 & 2012R2: 7.14.4.0 Win 2008R2 & 2008SP2: 7.14.3.0 |

Notes

- Supports HPE StoreEasy: 5530, 3840, 3830, 1850, 1840, 1830, 1650, 1640, 1630, 1550, 1540, 1530, 1450, 1440, 1430 & HPE StoreEasy Gateway Storage Blade: 3850, 3840, 3830 & HPE 3PAR StoreServ File Controller v2 & HPE StoreVirtual 3000 File Controller.
- Supports Messaging Systems E5300, E5500, E5700 and HPE Network Storage Systems X5520 G2, X3800sb G2, X3800 G2, X3400 G2, X3000 G2, X1800 G2.
- Supported block sizes up to 256K only.
- Catalyst over Fibre Channel not supported on x86.
- Not supported with StoreOnce G2 products.
- There is a potential for network interruption when using Qlogic StorPort driver 9.11.1.16, 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.
- Virtual FC HBA Driver only supported on Windows 2016 and Windows 2012 & 2012 R2 Guest VM's
- Virtual FC HBA Driver only supported on Windows 2012 & 2012 R2 Guest VM
- Windows 2016 not yet supported.
- See the HPE Servers Support & Certification Matrices website for server & operating systems support details.
- Consult the compatibility information for the data protection software to confirm product & OS version support details - see StoreOnce Partner Resources page at start of this document. Consult the individual Server QuickSpec for supported storage controllers.

Links

HPE Servers Support & Certification Matrices http://h17007.www1.hp.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#WqJdCejFKUn

Hewlett Packard Enterprise - StoreOnce G3 - Windows 10GbE Blade CNAs^{9, 10}

These tables show the supported Windows operating systems, servers and 10GbE Blade CNAs for direct attach and SAN connectivity to StoreOnce Systems.

| Operating Systems | Supported |
|--|-----------|
| Windows Server 2016 x64, (Windows 2016 Hyper-V Server) ⁵ , (Windows Storage Server 2016) ¹ | ✓ |
| Windows Server 2012 R2 & 2012 x64, (Windows 2012 Hyper-V Server) ⁶ , (Windows Storage Server 2012 / 2012 R2) ¹ | ✓ |
| Windows Server 2008 R2 x64 (Windows Storage Server 2008 R2) ² | ✓ |
| Windows Server 2008 (x86/x64) ³ | ✓ |

| Servers | Supported |
|--|-------------------------------------|
| HPE ProLiant DL, ML & HPE ProLiant BladeSystem c-Class | ✓ |
| HPE Synergy Compute Module | ✓ |
| HPE StoreEasy Storage ¹ / 3Par StoreServ File Controller ¹ / StoreVirtual File Controller ¹ | ✓ |
| HPE E5000 G2 Messaging Systems ^{2,7} | ✓ |
| 3rd Party Servers | iSCSI & Catalyst over Ethernet only |

| Adapter | Description | Interface | Firmware | FC StorPort Driver | NIC Driver | iSCSI StorPort Driver |
|---|----------------------------|-----------|-------------|---|--|---|
| Synergy 2820C (794538-B21) ⁸ | 10GbE HPE Synergy CNA | PCI-e | 7.14.3 | 7.14.15 | 7.13.104.0 | 7.14.4.0 |
| NC551m (580151-B21) & NC551i | 10GbE HPE BladeSystem CNAs | PCI-e | | | iSCSI support only | |
| 534FLB (700741-B21), 534M (700748-B21) & 536FLB (766490-B21) | 10GbE HPE BladeSystem CNAs | PCI-e | 7.14.3 | Win 2016 & 2012R2:7.14.15 Win2008R2 & 2008SP2: 7.14.10 | Win 2016 & 2012R2: 7.13.104.0 Win 2008R2 & 2008SP2: 7.13.103.0 | Win 2016 & 2012R2: 7.14.4.0 Win 2008R2 & 2008SP2: 7.14.3.0 |
| NC553m (613431-B21) ^{4,7} | 10GbE HPE BladeSystem CNAs | PCI-e | 10.7.110.31 | 10.7.110.20 | Win 2012R2:10.5.121.7 Win 2008R2:10.5.121.7 Win 2008 SP2:10.5.121.7 | 10.5.121.7 |
| NC553i ⁴ , 554M (647590-B21) ⁴ & 554FLB (647586-B21) ⁴ | 10GbE HPE BladeSystem CNAs | PCI-e | 11.1.183.23 | 11.1.145.16 | Win 2016:11.1.196.4(B) Win 2012R2:11.1.145.30(B) Win 2008R2:11.1.145.30(B) Win 2008 P2:11.1.145.30(B) | 11.1.185.0(B) |

Notes

- Supports HPE StoreEasy: 5530, 3840, 3830, 1850, 1840, 1830, 1650, 1640, 1630, 1550, 1540, 1530, 1450, 1440, 1430 & HPE StoreEasy Gateway Storage Blade: 3850, 3840, 3830 & HPE 3PAR StoreServ File Controller v2 & HPE StoreVirtual 3000 File Controller.
- Supports Messaging Systems E5300, E5500, E5700 and HPE Network Storage Systems X5520 G2, X3800sb G2, X3800 G2, X3400 G2, X3000 G2, X1800 G2.
- Catalyst over Fibre Channel not supported on x86.
- Not supported with StoreOnce G2 products.
- Virtual FC HBA Driver only supported on Windows 2016 and Windows 2012 & 2012 R2 Guest VM's
- Virtual FC HBA Driver only supported on Windows 2012 & 2012 R2 Guest VM
- Windows 2016 not yet supported
- Windows 2008R2 & Win2008 SP2 not supported.
- See the HPE Servers Support & Certification Matrices website for server & operating systems support details.
- Consult the compatibility information for the data protection software to confirm product & OS version support details - see StoreOnce Partner Resources page at start of this document. Consult the individual Server QuickSpec for supported storage controllers.

Links

HPE Servers Support & Certification Matrices http://h17007.www1.hp.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#WqJdCejFKUn

Hewlett Packard Enterprise - StoreOnce G3 - Windows 32Gb & 16Gb FC HBAs ^{10, 11}

These tables show the supported Windows Operating Systems, Servers and 32Gb & 16Gb FC Adapters for direct attach and SAN connectivity to StoreOnce Systems.

| Operating Systems | Supported |
|--|-----------|
| Windows Server 2016 x64, (Windows 2016 Hyper-V Server) ⁷ , (Windows Storage Server 2016) ¹ | ✓ |
| Windows Server 2012 R2 & 2012 x64, (Windows 2012 Hyper-V Server) ⁸ , (Windows Storage Server 2012 / 2012 R2) ¹ | ✓ |
| Windows Server 2008 R2 SP2 x64 (Windows Storage Server 2008 R2 SP2) ² | ✓ |
| Windows Server 2008 SP2 (x86/x64) ⁴ | ✓ |

| Servers | Supported |
|--|-----------|
| HPE Apollo 4500 Systems / Apollo 4200 Systems / Apollo 2000 Systems | ✓ |
| HPE ProLiant DL, ML & HPE ProLiant BladeSystem c-Class | ✓ |
| HPE Synergy Compute Module | ✓ |
| HPE StoreEasy Storage ¹ / 3Par StoreServ File Controller ¹ / StoreVirtual File Controller ¹ | ✓ |
| HPE E5000 G2 Messaging Systems ^{2,3} | ✓ |
| HPE Integrity Superdome X (BL920s Gen9 Only) | ✓ |
| 3rd Party Servers | |

| Adapter | Description | Interface | Firmware | StorPort Driver | | | |
|--|-------------------------------------|-----------|--|-----------------|-------------------|-----------------|-----------------|
| | | | | 2016 FC | 2012 & 2012 R2 FC | 2008 R2 FC | 2008 SP2 FC |
| SN1600E (Q0L11A & Q0L12A) ⁵ | 32Gb HPE FC HBAs | PCI-e | 11.2.307.16 | 11.2.139.0(b) | 11.2.139.0(b) | | |
| SN1600Q ((P9M75A & P9M76A) ^{5,6} | 32Gb HPE FC HBAs | PCI-e | Win2016 & 2012R2: 8.05.61 Win2008R2: 8.03.10 | 9.2.5.20 | 9.2.5.20 | | |
| SN1200E (Q0L13A & Q0L14A) ⁵ | 16Gb HPE FC HBAs | PCI-e | 11.2.307.16 | 11.2.139.0(b) | 11.2.139.0(b) | 11.1.145.16 (C) | 11.1.145.16 (C) |
| SN1100Q (P9D93A & P9D94A) ⁵ | 16Gb HPE FC HBAs | PCI-e | Win2016 & 2012R2: 8.05.61 Win2008R2 & 2008x64: 8.03.05 | 9.2.5.20 | 9.2.5.20 | 9.2.2.20 | 9.1.17.25 |
| SN1000Q (QW971A & QW972A) ⁵ | 16Gb HPE FC HBAs | PCI-e | Win2016 & 2012R2: 8.05.63 Win2008R2 & 2008x64: 8.02.51 | 9.2.5.20 | 9.2.5.20 | 9.2.2.20 | 9.1.17.25 |
| SN1100E (P9D99A, C8R38A & C8R39A) ⁵ | 16Gb HPE FC HBAs | PCI-e | Win2012R2: 11.2.307.16 Win2008R2 & 2008x64: 11.1.183.58 | | 11.2.139.0(b) | 11.1.145.16 (C) | 11.1.145.16 (C) |
| SN1000E (QR558A/QR559A) ⁵ | 16Gb HPE FC HBAs | PCI-e | Win2016 & Win2012R2: 11.2.307.16 Win2008R2 & 2008x64: 11.1.183.58 | 11.2.139.0(b) | 11.2.139.0(b) | 11.1.145.16 (C) | 11.1.145.16 (C) |
| LPe1605 (718203-B21) ⁵ | 16Gb HPE BladeSystem c-Class FC HBA | PCI-e | Win2012R2: 11.2.307.16 Win2008R2 & 2008x64: 11.1.183.58 | | 11.2.139.0(b) | 11.1.145.16 (C) | 11.1.145.16 (C) |
| QMH2672 (710608-B21) ⁵ | 16Gb HPE BladeSystem c-Class FC HBA | PCI-e | Win2016 & 2012R2: 8.05.63 Win2008R2 & 2008x64: 8.02.51 | 9.2.5.20 | 9.2.5.20 | 9.1.17.25 | 9.1.17.25 |
| Synergy 3830C (777454-B21) | 16Gb HPE Synergy Fibre Channel HBA | PCI-e | 8.05.63 | 9.2.5.20 | 9.2.5.20 | | |
| Synergy 3530C (777452-B21) | 16Gb HPE Synergy Fibre Channel HBA | PCI-e | 11.2.307.16 | 11.2.139.0(b) | 11.2.139.0(b) | | |

Notes

1. Supports HPE StoreEasy: 5530, 3840, 3830, 1850, 1840, 1830, 1650 & 1650 Expanded, 1640, 1630, 1550, 1540, 1530, 1450, 1440, 1430 & HPE StoreEasy Gateway Storage Blade: 3850, 3840, 3830 & HPE 3PAR StoreServ File Controller v2 & HPE StoreVirtual 3000 File Controller.
2. Supports Messaging Systems E5300, E5500, E5700 and HPE Network Storage Systems X5520 G2, X3800sb G2, X3800 G2, X3400 G2, X3000 G2, X1800 G2.
3. Windows 2016 not supported
4. Catalyst over Fibre Channel not supported on x86.
5. Not supported with StoreOnce G2 products.
6. Supported on Windows 2012 R2 Only.
7. Virtual FC HBA Driver only supported on Windows 2016 and Windows 2012 & 2012 R2 Guest VM's
8. Virtual FC HBA Driver only supported on Windows 2012 & 2012 R2 Guest VM
9. Direct Attached not supported.
10. See the HPE Servers Support & Certification Matrices website for server & operating systems support details.
11. Consult the compatibility information for the data protection software to confirm product & OS version support details - see StoreOnce Partner Resources page at start of this document. Consult the individual Server QuickSpec for supported storage controllers.

Links

HPE Servers Support & Certification Matrices http://h17007.www1.hp.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#WqJdCejFKUn

Hewlett Packard Enterprise - StoreOnce G3 - Windows 8Gb, 4Gb FC HBA^{10, 11}

These tables show the supported Windows Operating Systems, Servers and 8Gb & 4Gb FC Adapters for direct attach and SAN connectivity to StoreOnce Systems.

| Operating Systems | Supported |
|--|-----------|
| Windows Server 2016 x64, (Windows 2016 Hyper-V Server) ⁵ , (Windows Storage Server 2016) ¹ | ✓ |
| Windows Server 2012 R2 & 2012 x64, (Windows 2012 Hyper-V Server) ⁶ , (Windows Storage Server 2012 / 2012 R2) ¹ | ✓ |
| Windows Server 2008 SP2 (x86/x64) ⁴ | ✓ |

| Servers | Supported |
|--|-----------|
| HPE Apollo 4500 Systems / Apollo 4200 Systems / Apollo 2000 Systems | ✓ |
| HPE ProLiant DL, ML & HPE ProLiant BladeSystem c-Class | ✓ |
| HPE StoreEasy Storage ¹ / 3Par StoreServ File Controller ¹ / StoreVirtual File Controller ¹ | ✓ |
| HPE E5000 G2 Messaging Systems ^{2,7} | ✓ |
| HPE Integrity Superdome X (BL920s Gen9 Only) | ✓ |
| Third Party ⁸ | ✓ |

| Adapter | Description | Interface | Firmware | | | FC StorePort Driver | | |
|---|-------------------------------------|-----------|----------|------------|------------|---------------------|---------------|---|
| | | | 2016 | 2012/12 R2 | 2008/08 R2 | 2016 | 2012/12 R2 | 2008/08 R2 |
| 81Q (AK344A) ⁹ & 82Q (AJ764A) ⁹ & 84Q (P9D91A) ⁹ | 8Gb HPE FC HBAs | PCI-e | 8.05.00 | 8.05.00 | 8.02.00 | 9.2.5.20 | 9.2.5.20 | 2008R2 - 9.2.2.0 2008R2 - 9.1.17.25 |
| QLE2560 ^{3,9} & QLE2562 ^{3,9} & QLE2564 ^{3,9} | 8Gb Qlogic FC HBAs | PCI-e | 8.05.00 | 8.05.00 | 8.02.00 | 9.2.5.20 | 9.2.5.20 | 2008R2 - 9.2.2.0 2008R2 - 9.1.17.25 |
| 81E (AJ762A/B) ⁹ & 82E (AJ763A/B) ⁹ & 84E (E7Y63A) ⁹ | 8Gb HPE FC HBAs | PCI-e | | 2.03x14 | 2.03x6 | | 11.2.139.0(b) | 11.1.145.16 (C) |
| LPe12000 ⁹ & LPe12002 ⁹ & LPe12004 ⁹ | 8Gb Emulex FC HBAs | PCI-e | | 2.03x14 | 2.03x6 | | 11.2.139.0(b) | 11.1.145.16 (C) |
| 81B (AP769A/B) & 82B (AP770A/B) | 8Gb HPE FC HBAs | PCI-e | | 3.2.5.0 | 3.2.5.0 | | 3.2.5.0 | 3.2.5.0 |
| 815 ³ & 825 ³ | 8Gb Brocade FC HBAs | PCI-e | | 3.2.5.0 | 3.2.5.0 | | 3.2.5.0 | 3.2.5.0 |
| QMH2572 ⁹ (651281-B21) ⁹ & QMH2562 (451871-B21) ⁹ | 8Gb HPE BladeSystem c-Class FC HBAs | PCI-e | 8.05.00 | 8.05.00 | 8.02.00 | 9.2.5.20 | 9.2.5.20 | 9.1.17.25 |
| LPe1205A ⁹ (659818-B21) ⁹ & LPe1205 (456972-B21) ⁹ | 8Gb HPE BladeSystem c-Class FC HBAs | PCI-e | | 2.03x14 | 2.03x6 | | 11.2.139.0(b) | 11.1.145.16 (C) |
| 804 (590647-B21) ⁹ | 8Gb HPE BladeSystem c-Class FC HBAs | PCI-e | | 3.2.5.0 | 3.2.5.0 | | 3.2.5.0 | 3.2.5.0 |
| FC2142SR (A8002A/B) & FC2242SR (A8003A/B) | 4Gb HPE FC HBAs | PCI-e | | 2.82x4 | 2.82x4 | | 10.7.110.20 | 10.7.110.20 |
| LPe1150 ³ & LPe1100 ⁹ | 4Gb Emulex FC HBAs | PCI-e | | 2.82x4 | 2.82x4 | | 10.7.110.20 | 10.7.110.20 |
| FC1142SR (AE311A) & FC1242SR (AE312A) | 4Gb HPE FC HBAs | PCI-e | | 5.03.15 | 5.03.15 | | 9.2.2.0(a) | 2008 R2 - 9.2.2.0 2008 SP2 - 9.1.17.25 |
| QLE2460 ³ & QLE2462 ³ | 4Gb Qlogic FC HBAs | PCI-e | | 5.03.15 | 5.03.15 | | 9.2.2.0(a) | 2008 R2 - 9.2.2.0 2008 SP2 - 9.1.17.25 |
| LPe1105 (403621-B21) | 4Gb HPE BladeSystem c-Class FC HBAs | PCI-e | | 2.82x4 | 2.82x4 | | 10.7.110.20 | 10.7.110.20 |
| QMH2462 (403619-B21) | 4Gb HPE BladeSystem c-Class FC HBAs | PCI-e | | 5.03.15 | 5.03.15 | | 9.1.17.25 | 9.1.17.25 |

Notes

1. Supports HPE StoreEasy: 5530, 3840, 3830, 1850, 1840, 1830, 1650 & 1650 Expanded, 1640, 1630, 1550, 1540, 1530, 1450, 1440, 1430 & HPE StoreEasy Gateway Storage Blade: 3850, 3840, 3830 & HPE 3PAR StoreServ File Controller v2 & HPE StoreVirtual 3000 File Controller.
2. Supports Messaging Systems E5300, E5500, E5700 and HPE Network Storage Systems X5520 G2, X3800sb G2, X3800 G2, X3400 G2, X3000 G2, X1800 G2.
3. Third Party adapters require HPE drivers and firmware.
4. Catalyst over Fibre Channel not supported on x86.
5. Virtual FC HBA Driver only supported on Windows 2016 and Windows 2012 & 2012 R2 Guest VMs
6. Virtual FC HBA Driver only supported on Windows 2012 & 2012 R2 Guest VMs
7. Windows 2016 not yet supported
8. Support on third party servers require HPE drivers & firmware on a non-HPE adapters.
9. Direct Attached configuration is only supported with a single node StoreOnce or VSA running software version 3.13.x or 3.16.3+.
10. See the HPE Servers Support & Certification Matrices website for server & operating systems support details.
11. Consult the compatibility information for the data protection software to confirm product & OS version support details - see StoreOnce Partner Resources page at start of this document. Consult the individual Server QuickSpec for supported storage controllers.

Links

HPE Servers Support & Certification Matrices http://h17007.www1.hp.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#WqJdCeJFKUn

Hewlett Packard Enterprise - StoreOnce G3 - Linux 20GbE CNAs^{1, 2}

These tables show the supported Linux Operating Systems, Servers and 20GbE CNAs for direct attach and SAN connectivity to StoreOnce Systems.

| Operating Systems | Supported Version |
|---------------------------------------|-------------------|
| RHEL 7 [AS/ES] (x64) ³ | 7.4 ³ |
| RHEL 6 [AS/ES] (x86/x64) ³ | 6.9 |
| SLES 12 (x64) | 12.3 |
| SLES 11 (x86/x64) | 11.4 |

| Servers | Supported |
|--|-------------------------------------|
| HPE ProLiant DL, ML & HPE ProLiant BladeSystem c-Class | ✓ |
| HPE Synergy Compute Module | ✓ |
| 3rd Party Servers | iSCSI & Catalyst over Ethernet only |

| Converged Network Adapters | Description | Interface | Firmware | FC driver | iSCSI Driver | NIC Driver |
|---|----------------------------|-----------|--------------|--------------|----------------|----------------|
| Synergy 3820C (777430-B21) | 20GbE HPE Synergy CNA | PCI-e | 7.14.3 | 7.14.29-1 | 2.11.5.1-1 | 1.714.6 |
| 630FLB (700065-B21) ^{4, 6} & 630M (700076-B21) ^{4, 6} | 20GbE HPE BladeSystem CNAs | PCI-e | 7.14.3 | 7.14.29-1 | 2.11.5.1-1 | 1.714.6 |
| 650FLB (700763-B21) ⁶ & 650M (700767-B21) ⁶ | 20GbE HPE BladeSystem CNAs | PCI-e | 11.2.1263.19 | 11.2.1263.16 | 11.1.1263.16-1 | 11.1.1263.16-1 |

Notes

1. See the HPE Servers Support & Certification Matrices website for server & operating systems support details.
2. Consult the compatibility informatin for the data protection software to confirm product & OS version support details - see StoreOnce Partner Resources page at start of this document. Consult the individual Server QuickSpec for supported storage controllers.
3. RHEL kernel versions include support for Oracle Linux (OL) with Red Hat Compatible Kernel (RHCK) UEK only support with Catalyst.
4. Supported block sizes up to 256K only.
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. StoreOnce Catalyst over Fibre Channel requires system software with 3.13.x or later with SLES 11.3 & SLES 12.

Links

HPE Servers Support & Certification Matrices http://h17007.www1.hp.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#WqJdCejEKU

Hewlett Packard Enterprise - StoreOnce G3 - Linux 10GbE CNAs^{5, 6}

These tables show the supported Linux Operating Systems, Servers and 10GbE CNAs for direct attach and SAN connectivity to StoreOnce Systems.

| Operating Systems | Supported Version |
|---------------------------------------|-------------------|
| RHEL 7 [AS/ES] (x64) ¹ | 7.4 ³ |
| RHEL 6 [AS/ES] (x86/x64) ¹ | 6.9 |
| SLES 12 (x64) | 12.3 |
| SLES 11 (x86/x64) | 11.4 |

| Servers | Supported |
|--|-------------------------------------|
| HPE ProLiant DL, ML & HPE ProLiant BladeSystem c-Class | ✓ |
| HPE Synergy Compute Module | ✓ |
| 3rd Party Servers | iSCSI & Catalyst over Ethernet only |

| Converged Network Adapters | Description | Interface | Firmware | FC driver | iSCSI Driver | NIC Driver |
|--|-----------------------------|-----------|--------------------|--|--|--|
| Synergy 2820C (794538-B21) ² | 10GbE HPE Synergy CNAs | PCI-e | 7.14.3 | 7.14.29-1 | 2.11.5.1-1 | 1.714.6 |
| CN1000E (AW520A) | 10 GbE HPE CNA | PCI-e | iSCSI support only | | | |
| CN1000Q (B5668A) ² & 526FLR (629138-B21) ² | 10 GbE HPE CNAs | | 4.20.1 | RHEL 7: 8.07.00.34.07.0-k1(b) RHEL 6: 8.07.00.34.06.0-k1(b) SLES 12: 8.07.00.34.12.0-k1(c) SLES 11: 8.07.00.34.11.3-k1(b) | RH 7: 5.04.01.12.00.00-2(B) RH 6: 5.04.01.12.00.00-3 SLES 12: 5.04.01.12.00.00-2(B) SLES 11: 5.04.01.12.00.00-5 | 5.3.63-3 |
| CN1200E (E7Y06A) ² & 556FLR (FlexibleLOM, 727060-B21) ² | 10 GbE HPE CNAs | | 11.2.1263.19 | 11.2.1263.21 | 11.1.1263.16-1 | 11.1.1263.16-1 |
| CN1100E (BK835A) ² | 10 GbE HPE CNAs | | 11.1.183.23 | RHEL 7.2: 11.1.183.21(C) RHEL 6.8: 11.1.183.21(C) SLES 12.1: 11.1.183.21(C) SLES 11.4: 11.1.183.21(C) | RHEL 7: 10.7.110.34-1 RHEL 6: 10.7.110.20-1 SLES 12: 10.7.110.34-1 SLES 11: 10.7.110.20-1 | RHEL 7: 11.1.145.27-1 RHEL 6: 11.1.183.21-1 SLES 12: 11.1.145.27-1 SLES 11: 11.1.145.27-1 |
| CN1100R (QW990A) ⁴ & 534FLR (700751-B21) ⁴ | 10 GbE HPE CNAs | | 7.14.3 | 7.14.29-1 | 2.11.5.1-1 | 1.714.6 |
| NC551m (580151-B21) & NC551i | 10 GbE HPE BladeSystem CNAs | PCI-e | | | iSCSI support only | |
| NC553m (613431-B21) ² | 10 GbE HPE BladeSystem CNAs | PCI-e | 10.7.110.31 | RHEL 7.1: 10.7.110.34 RHEL 6.7: 10.7.110.34 SLES 12.1: 10.7.110.34 SLES 11.4: 10.7.110.34 | RHEL 7.2: 10.5.154.0-1 RHEL 6.7: 10.5.154.0-1 SLES 12.1: 10.5.154.0-1 SLES 11.4: 10.5.154.0-1 | RHEL 7.2: 10.5.154.0-1 RHEL 6.7: 10.5.154.0-1 SLES 12.1: 10.5.154.0-1 SLES 11.4: 10.5.154.0-1 |
| NC553i ² & 554M (647590-B21) ² & 554FLB ² & (647586-B21) ² & 554FLR (629142-B21) ² & 556FLR (727060-B21) ² | 10 GbE HPE BladeSystem CNAs | PCI-e | 11.1.183.23 | RHEL 7.2: 11.1.183.21(C) RHEL 6.8: 11.1.183.21(C) SLES 12.1: 11.1.183.21(C) SLES 11.4: 11.1.183.21(C) | RHEL 7: 11.1.341.0-1 RHEL 6: 11.1.183.21-1 SLES 12: 11.1.145.26-1 SLES 11: 11.1.145.26-1 | RHEL 7: 11.1.145.27-1 RHEL 6: 11.1.183.21-1 SLES 12: 11.1.145.27-1 SLES 11: 11.1.145.27-1 |
| 534FLB (700741-B21) ^{2,4} & 534M (700748-B21) ^{2,4} & 536FLB (766490-B21) ^{2,4} | 10 GbE HPE BladeSystem CNAs | | 7.14.3 | 7.14.29-1 | 2.11.5.1-1 | 1.714.6 |

Notes

1. RHEL kernel versions include support for Oracle Linux (OL) with Red Hat Compatible Kernel (RHCK). UEK only support with Catalyst.
2. StoreOnce Catalyst over Fibre Channel requires system software with 3.13.x or later with SLES 11.3 & SLES 12.
3. 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.
4. Supported block sizes up to 256K only.
5. See the HPE Servers Support & Certification Matrices website for server & operating systems support details.
6. Consult the compatibility informatin for the data protection software to confirm product & OS version support details - see StoreOnce Partner Resources page at start of this document. Consult the individual Server QuickSpec for supported storage controllers.

Links

HPE Servers Support & Certification Matrices http://h17007.www1.hpe.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#WqJdCeJFKUn

Hewlett Packard Enterprise - StoreOnce G3 - Linux 32Gb, 16Gb, 8Gb FC HBAs^{6,7}

These tables show the supported Linux Operating Systems, Servers and 32Gb, 16Gb & 8Gb Adapters for direct attach and SAN connectivity to StoreOnce Systems.

| Operating Systems | Version |
|---------------------------------------|------------------|
| RHEL 7 [AS/ES] (x64) ¹ | 7.4 ² |
| RHEL 6 [AS/ES] (x86/x64) ³ | 6.9 |
| SLES 12 (x64) | 12.3 |
| SLES 11 (x86/x64) | 11.4 |

| Servers | Supported |
|---|-----------|
| HPE Apollo 4500 Systems / Apollo 4200 Systems / Apollo 2000 Systems | ✓ |
| HPE ProLiant DL, ML & HPE ProLiant BladeSystem c-Class | ✓ |
| HPE Synergy Compute Module | ✓ |
| HPE Integrity Superdome X (BL920s Gen9 Only) | ✓ |
| Third Party ⁴ | ✓ |

| FC Host Bus Adapters (Part Number) | Description | Interface | Firmware | RHEL 7 Driver | RHEL 6 Driver | SLES 12 Driver | SLES 11 Driver |
|---|--------------------------------------|-----------|------------------------------|--------------------------|--------------------------|---------------------------|-----------------------|
| SN1600E (QOL11A & QOL12A) | 32Gb HPE FC HBAs | PCI-e | 11.2.307.16 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 |
| SN1600Q ((P9M75A & P9M76A) | 32Gb HPE FC HBAs | PCI-e | 8.05.61 | 8.07.00.50.07.0-k4 | 8.07.00.50.06.0-k4 | 8.07.00.50.12.0-k4 | 8.07.00.50.11.3-k3(b) |
| SN1200E (QOL13A & QOL14A) | 16Gb HPE FC HBAs | PCI-e | 11.2.307.16 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 |
| SN1100Q (P9D93A & P9D94A) | 16Gb HPE FC HBAs | PCI-e | 8.05.61 | 8.07.00.50.07.0-k4 | 8.07.00.50.06.0-k4 | 8.07.00.50.12.0-k4 | 8.07.00.50.11.3-k3(b) |
| SN1000Q (QW971A & QW972A) | 16Gb HPE FC HBAs | PCI-e | 8.05.63 | 8.07.00.50.07.0-k4 | 8.07.00.50.06.0-k4 | 8.07.00.50.12.0-k4 | 8.07.00.50.11.3-k3(b) |
| SN1100E (P9D99A, C8R38A & C8R39A) | 16Gb HPE FC HBAs | PCI-e | 11.2.307.16 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 |
| SN1000E (QR558A/QR559A) | 16Gb HPE FC HBAs | PCI-e | 11.2.307.16 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 |
| Synergy 3830C (777454-B21) | 16Gb HPE Synergy FC HBAs | PCI-e | 8.05.63 | 8.07.00.50.07.0-k4 | 8.07.00.50.06.0-k4 | 8.07.00.50.12.0-k4 | 8.07.00.50.11.3-k3(b) |
| Synergy 3530C (777452-B21) | 16Gb HPE Synergy FC HBAs | PCI-e | 11.2.307.16 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 |
| LPe1605 (718203-B21) | 16Gb HPE BladeSystem c-Class FC HBAs | PCI-e | 11.2.307.16 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 |
| QMH2672 (710608-B21) | 16Gb HPE BladeSystem c-Class FC HBAs | PCI-e | 8.05.63 | 8.07.00.50.07.0-k4 | 8.07.00.50.06.0-k4 | 8.07.00.50.12.0-k4 | 8.07.00.50.11.3-k3(b) |
| 81Q (AK344A) ⁵ & 82Q (AJ764A) ⁵ & 84Q (P9D91A) ⁵ | 8Gb HPE FC HBAs | PCI-e | 8.05.00 | 8.07.00.50.07.0-k4 | 8.07.00.50.06.0-k4 | 8.07.00.50.12.0-k4 | 8.07.00.50.11.3-k3(b) |
| OLE2560 ^{3,5} & OLE2562 ^{3,5} & OLE2564 ^{3,5} | 8Gb QLogic FC HBAs | PCI-e | 8.05.00 | 8.07.00.50.07.0-k4 | 8.07.00.50.06.0-k4 | 8.07.00.50.12.0-k4 | 8.07.00.50.11.3-k3(b) |
| 81E (AJ762A/B) ⁵ & 82E (AJ763A/B) ⁵ & 84E (E7Y63A) ⁵ | 8Gb HPE FC HBAs | PCI-e | 2.03x14 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 |
| LPe12000 ³ & LPe12002 ³ & LPe12004 ³ | 8Gb Emulex FC HBAs | PCI-e | 2.03x14 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 |
| 81B (AP769A/B) & 82B (AP770A/B) | 8Gb HPE FC HBAs | PCI-e | 3.2.5.0 (SLES 11.3: 3.2.1.0) | RHEL 7.0: 3.2.5.0 | RHEL 6.7: 3.2.5.0 | | SLES 11.3: 3.2.1.0 |
| 815 ³ & 825 ³ | 8Gb Brocade FC HBAs | PCI-e | 3.2.5.0 (SLES 11.3: 3.2.1.0) | RHEL 7.0: 3.2.5.0 | RHEL 6.7: 3.2.5.0 | | SLES 11.3: 3.2.1.0 |
| QMH2572 (651281-B21) ⁵ & QMH2562 (451871-B21) ⁵ | 8Gb HPE BladeSystem c-Class FC HBAs | PCI-e | 8.05.00 | 8.07.00.50.07.0-k4 | 8.07.00.50.06.0-k4 | 8.07.00.50.12.0-k4 | 8.07.00.50.11.3-k3(b) |
| LPe1205A (659818-B21) ⁵ | 8Gb HPE BladeSystem c-Class FC HBA | PCI-e | 2.03x14 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 | 11.2.307.13 |
| LPe1205 (456972-B21) ⁵ | 8Gb HPE BladeSystem c-Class FC HBA | PCI-e | 2.03x14 | RHEL 7.2: 11.1.183.21(C) | RHEL 6.8: 11.1.183.21(C) | SLES 12.1: 11.1.183.21(C) | 11.1.183.21(C) |
| 804 (590647-B21) ⁵ | 8Gb HPE 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 | RHEL 6.7: 3.2.5.0 | | SLES 11.3: 3.2.1.0 |

- Notes**
1. RHEL kernel versions include support for Oracle Linux (OL) with Red Hat Compatible Kernel (RHCK). UEK only support with Catalyst.
 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. Support on third party servers require HPE drivers & firmware on a non-HPE adapters.
 5. Direct Attached configuration is only supported with a single node StoreOnce or VSA running software version 3.13.x or 3.16.3+.
 6. See the HPE Servers Support & Certification Matrices website for server & operating systems support details.
 7. Consult the compatibility informatin for the data protection software to confirm product & OS version support details - see StoreOnce Partner Resources page at start of this document. Consult the individual Server QuickSpec for supported storage controllers.

Links
HPE Servers Support & Certification Matrices http://h17007.www1.hpe.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#WqJdCejKUn

Hewlett Packard Enterprise - StoreOnce G3 - Linux 4Gb FC HBAs^{6,7}

These tables show the supported Linux Operating Systems, Servers and 4Gb Adapters for direct attach and SAN connectivity to StoreOnce Systems.

| Operating Systems | Version |
|---------------------------------------|---------|
| RHEL 6 [AS/ES] (x86/x64) ¹ | 6.9 |
| SLES 11 (x86/x64) | 11.4 |

| Servers | Supported |
|--|-----------|
| HPE ProLiant DL, ML & HPE ProLiant BladeSystem c-Class | ✓ |
| Third Party ⁴ | ✓ |

| FC Host Bus Adapters (Part Number) | Description | Interface | Firmware | RHEL 6 Driver | SLES 11 Driver |
|--|------------------------------------|-----------|----------|------------------------------|-----------------------|
| FC1142SR (AE311A) & FC1242SR (AE312A) | 4Gb HPE FC HBAs | PCI-e | 5.03.15 | RHEL 6.8: 8.07.00.42.06.0-k1 | 8.07.00.42.11.3-k |
| QLE2460 ³ & QLE2462 ³ | 4Gb QLogic FC HBAs | PCI-e | 5.03.15 | RHEL 6.8: 8.07.00.42.06.0-k1 | 8.07.00.42.11.3-k |
| FC2142SR (A8002A) & FC2242SR (A8003A) | 4Gb HPE FC HBAs | PCI-e | 2.82x4 | RH 6.7: 10.7.110.34 | 10.7.110.34 |
| LPe1150 ⁵ & LPe11002 ⁵ | 4Gb Emulex FC HBAs | PCI-e | 2.82x4 | RH 6.7: 10.7.110.34 | 10.7.110.34 |
| LPe1105 (403621-B21) | 4Gb HPE BladeSystem c-Class FC HBA | PCI-e | 2.82x4 | RH 6.7: 10.7.110.34 | 10.7.110.34 |
| QMH2462 (403619-B21) | 4Gb HPE BladeSystem c-Class FC HBA | PCI-e | 5.03.15 | 8.07.00.34.06.0-k1(b) | 8.07.00.34.11.3-k (b) |

Notes

1. RHEL kernel versions include support for Oracle Linux (OL) with Red Hat Compatible Kernel (RHCK). UEK only support with Catalyst.
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. Support on third party servers require HPE drivers & firmware on a non-HPE adapters.
5. Direct Attached not supported.
6. See the HPE Servers Support & Certification Matrices website for server & operating systems support details.
7. Consult the compatibility informatin for the data protection software to confirm product & OS version support details - see StoreOnce Partner Resources page at start of this document. Consult the individual Server QuickSpec for supported storage controllers.

Links

HPE Servers Support & Certification Matrices http://h17007.www1.hp.com/us/en/enterprise/servers/supportmatrix/redhat_linux.aspx#WqJdCejFKUn

Hewlett Packard Enterprise - StoreOnce G3 - Solaris (x64)⁵

These tables show the supported Solaris Operating Systems, x86-based Servers and Adapters for direct attach and SAN connectivity to StoreOnce Systems.

| Operating Systems | Version |
|-------------------------------|-----------|
| Solaris 11 (x64) | Update 3 |
| Solaris 10 (x64) ¹ | Update 11 |

| Servers | Supported |
|--|-----------|
| HPE ProLiant DL, ML & HPE ProLiant BladeSystem c-Class | ✓ |
| 3rd Party Servers | |

| Adapter Name (HPE Part number) | Description | Interface | Firmware | Driver |
|--|---|-----------|--------------------|--------|
| CN1000Q (BS668A) | 10GbE HP CNAs ² | PCI-e | 4.0.0.21.c | Native |
| CN1000E (AW520A) | 10GbE HPE CNAs ^{2,3} | PCI-e | iSCSI support only | Native |
| CN1100E (BK835A) | 10GbE HPE CNAs ^{2,3} | PCI-e | iSCSI support only | Native |
| NC551m (S80151-B21) & NC551i | 10GbE HPE BladeSystem CNAs ^{2,3} | PCI-e | iSCSI support only | Native |
| NC553m (613431-B21) / NC553i / 554FLR (629142-B21) / 554M (647590-B21) / 554FLB (647586-B21) | 10GbE HPE BladeSystem CNAs ^{2,3} | PCI-e | iSCSI support only | Native |
| Emulex LPe12000 / LPe12002 ⁴ & 81E (AJ762A & AJ762B) / 82E (AJ763A & AJ763B) ⁴ | 8Gb FC HBAs ³ | PCI-e | 2.0.3x14 | Native |
| QLogic QLE2560 / QLE2562 ⁴ & 81Q (AK344A) / 82Q (AJ764A) ⁴ | 8Gb FC HBAs ³ | PCI-e | 4.0.0.21c | Native |

Notes

1. Supported with Solaris 10 x64 only. AMD64 and Intel EM64T.
2. HPE branded HBAs supported on ProLiant only.
3. StoreOnce Catalyst over Fibre Channel not supported.
4. Direct Attached configuration is only supported with a single node StoreOnce or VSA running software version 3.13.x or 3.16.3+.
5. See the HPE Servers Support & Certification Matrices website for Oracle Solaris (x86) support details.

Links

HPE Servers Support & Certification Matrices website: <http://h17007.www1.hpe.com/us/en/enterprise/servers/supportmatrix/solaris.aspx#WnmEhahl-UI>

Hewlett Packard Enterprise - StoreOnce G3 - Oracle Solaris (SPARC)²

These tables show the supported Solaris Operating Systems, SPARC-based Servers and Adapters for connectivity to StoreOnce

| Operating Systems | Version |
|-------------------|-----------|
| Solaris 11 SPARC | Update 3 |
| Solaris 10 SPARC | Update 11 |

| Servers | Supported |
|--------------|-----------|
| Oracle SPARC | ✓ |

| Adapter Name (Part number) | Description | Interface | Firmware | Driver |
|---------------------------------------|--|-----------|---------------------------------------|--------|
| 7101674 ¹ | (16 Gb FC / 10 Gb FCoE) PCIe Universal HBA, Qlogic | PCI-e | 3.60.17 (Multi-Boot Image Update Kit) | Native |
| 7101684 ¹ | (16 Gb FC / 10 Gb FCoE) PCIe Universal HBA, Emulex | PCI-e | 10.6.230.0 | Native |
| SG-XPCIEFCOE2-Q-SR ¹ | 10 Gb FCoE PCIe Dual Port Adapter, Qlogic | PCI-e | 2.04.04 (Multi-Boot Image Update Kit) | Native |
| SG-XPCIE1FC-EM8-Z & SG-XPCIE2FC-EM8-Z | 8Gb FC HBAs | PCI-e | 1.1.60.1 | Native |
| SG-XPCIE1FC-QF8-Z & SG-XPCIE2FC-QF8-Z | 8Gb FC HBAs | PCI-e | 3.80.02 (Multi-Boot Image Update Kit) | Native |

Notes

1. StoreOnce Catalyst over Fibre Channel (CoFC) not supported.
2. See the HPE Servers Support & Certification Matrices website for Oracle Solaris support details.

Links

HPE Servers Support & Certification Matrices website: <http://h17007.www1.hp.com/us/en/enterprise/servers/supportmatrix/solaris.aspx#.WniPeghl-Ul>

Hewlett Packard Enterprise - StoreOnce G3 - AIX, IBM i, PowerVM Support⁷

These tables show the supported IBM Operating Systems, IBM Servers and IBM Adapters for direct attach and SAN connectivity to StoreOnce Systems.

| Operating System | Version | Notes |
|-------------------------|---------------------|--------------------------|
| AIX ¹ | V7.1.3 and higher | 1 Atape Driver: 12.8.9.0 |
| IBM i ^{2, 5.5} | V7R1M0, V7R2M0 | |
| PowerVM | V2.2.3.2 and higher | |

| Servers | Supported |
|---------------------|-----------|
| IBM Power 8 Servers | ✓ |
| IBM Power 7 Servers | ✓ |

| Adapter | Description | Interface | Operating Systems | AIX Microcode (FW) |
|---|---------------------------------------|-----------|---------------------|----------------------|
| IBM ENOH ⁴ & ENOJ ⁴ | 10GbE IBM CNAs | PCI-e2 | AIX | 00010000020025201913 |
| IBM 5708 ⁴ | 10GbE IBM CNA | PCI-e2 | AIX | 020118 |
| IBM ENOA ⁴ & ENOB ⁴ | 16Gb IBM Single & Dual Port HBAs | PCI-e2 | PowerVM, AIX, IBM i | 00010000020025201919 |
| 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. Data Protector: Robot control is not supported for Physical or Virtual HPE Tape Devices, or StoreOnce IBM Tape VTL devices.
 2. Only IOPLESS or SMART HBAs are supported
 3. Refer to the IBM System Storage Interoperation Center (SSIC) web page to verify adapter support for specific servers.
 4. StoreOnce Catalyst over Fibre Channel not supported.
 5. Supported with Fibre Channel Only
 6. Microcode 00010000020025201919 or later is required if using adapter as a Virtual Fibre Channel device.
 7. Consult the backup application vendor's compatibility guides (see links to vendor compatibility pages earlier in this document) to confirm product & OS version support details. Consult the IBM System Storage Interoperation Center web page to verify adapter support for specific servers.

- Links**
- [IBM System Storage Interoperation Center \(SSIC\)](#)

Hewlett Packard Enterprise - StoreOnce G3 - Storage Networking

These tables shows the switches, routers, gateways and HPE Virtual Connect modules supported for use with HPE StoreOnce Systems.

| StoreFabric B-series SAN Switches ^{1,3,4,7} | Firmware Streams |
|---|--------------------------------------|
| HPE SN8600B SAN Director Switch, SN6600 Fibre Channel Switch & HPE SN3600B SAN Switch | 8.1.1, 8.0.2c |
| HPE SN8000B SAN Director Switch, SN6500B, SN6000B & SN3000B Fibre Channel Switch | 8.1.1, 8.0.2c, 7.4.2, 7.3.2b, 7.1.2b |
| HPE StoreFabric SN4000B | 8.1.1, 8.0.2a, 7.4.2, 7.3.2b |
| HPE Encryption SAN Switch and FS8-18 FC Blade | 7.4.2, 7.3.2b, 7.1.2b |
| HPE DC SAN Backbone Director, HPE DC04 SAN Director | 7.4.2, 7.3.2b, 7.1.2b |
| HPE 8/8, 8/24, 8/40, 8/80 SAN Switches | 7.4.2, 7.3.2b, 7.1.2b |
| Brocade 16Gb SAN Switch for HPE Synergy | 8.1.1, 8.0.2c |
| Brocade 8Gb SAN Switch for HPE BladeSystem c-Class (8/12c and 8/24c) | 7.4.1d, 7.3.2b, 7.1.2b |
| Brocade 16Gb SAN Switch for HPE BladeSystem c-Class | 8.1.1, 8.0.2c, 7.4.2, 7.3.2b |

| StoreFabric C-series SAN Switches ^{1,3,7} | Firmware Streams |
|--|---|
| HPE SN8500C Director, HPE C-Series Family (MDS 9710 & MDS 9706) ³ | 7.3(1)DY(1), 6.2(19) |
| HPE SN8000C Directors, HPE C-series Family (MDS 9506/ MDS 9509/ MDS 9513) | 7.3(1)DY(1), 6.2(19), 5.2(8h), 4.2(9) |
| HPE StoreFabric SN6010C 12-port/48-port 16Gb Fibre Channel Switch (MDS9148S) | 7.3(1)DY(1), 6.2(19) |
| HPE SN6000C 8Gb Fibre Channel Switch (MDS 9148) | 6.2(19), 5.2(8h) |
| HPE C-series Nexus 50x0 Converged Network Switch | 5.2(1)N1(9b) |
| Cisco Nexus 5548UP / 5596UP Converged Network Switch | 7.3(2)N1(9b), 6.0(2)N2(7), 5.2(1)N1(9b) |
| Cisco MDS 9124 | 5.2(8h), 4.2(9) |
| Cisco MDS 9222i | 6.2(11c) |
| Cisco 9506, 9509, 9513 | 7.3(1)DY(1), 6.2(19), 5.2(8h), 4.2(9) |
| Cisco MDS 8Gb Fabric Switch for HPE BladeSystem c-Class | 6.2(19), 5.2(8h) |

| StoreFabric H-series SAN Switches ^{1,3,7,9} | Firmware |
|--|--------------|
| HPE SN6000 Stackable Fibre Channel Switch ⁶ | 8.0.14.19.00 |
| HPE 8/20q Fibre Channel Switch ⁶ | 8.0.14.19.00 |

| Multi-Protocol Routers, Gateways, and Virtual Connect 1 (All Series) ^{1,3,7} | Firmware Streams |
|---|--|
| HPE StoreFabric SN6500C 16Gb FC/FCIP/FCoE Multi-service Switch ^{8,9} | 7.3(1)DY(1), 6.2(19) |
| HPE FlexFabric 5930 Switch Series | Version 7.1 Release: R2432P03 |
| HPE FlexFabric 5900CP Switch | Version 7.1 Release: R2432P03 |
| HPE Synergy 10Gb Pass-Thru Module | 1.08 |
| HPE Virtual Connect SE 40Gb F8 Module for HPE Synergy | 1.1.0.1010 |
| HPE Virtual Connect FlexFabric 20/40 F8 Module for c-class Blade System ^{5,9} | 4.60 |
| HPE Virtual Connect FlexFabric 10Gb/24-Port Module for c-Class BladeSystem ⁵ | 4.60 |
| HPE Virtual Connect FlexFabric 10Gb/24 Enterprise Edition for Class Systems ⁵ | 4.60 |
| HPE 2408 FCoE Converged Network Switch | 7.1.2b |
| HPE 1606 Extension SAN Switch ^{2,9} and DC SAN Director Switch Multiprotocol Ext. Blade ^{2,9} | 7.4.2, 7.3.2b, 7.1.2b |
| HPE Virtual Connect SE 16Gb Fibre Channel Module for Synergy | 1.05.24 |
| HPE 16Gb 24-port Virtual Connect FC Module for c-Class BladeSystem ⁵ | 4.60 |
| HPE 8Gb 24-Port Virtual Connect FC Module (VC-FC) ⁵ | 4.60 |
| HPE 4Gb/8Gb 20 Port Virtual Connect FC Module (VC-FC) ⁵ | 4.60 |
| Brocade VDX6740 | 7.1.0a, 7.0.1c, 6.0.2e, 5.0.2c, 4.1.3d |

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. For Tape support on Virtual Connect switches, an external switch is required.
6. Platform support is restricted. Please reference the switches' QuickSpec on 'hpe.com/info/qs' for supported operating systems and host bus adapters.
7. 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.
8. StoreOnce requires version 3.11.1 or later system software
9. StoreOnce Catalyst over Fibre Channel not supported.