Overview

HPE StoreOnce Systems

Does data growth leave you struggling with complex, distributed, and costly data protection? Do you have data that's not being protected because backup windows aren't long enough or backup jobs are failing? Do you want to use local and cloud-based storage to take advantage of hybrid data protection? Are you concerned about the threat from ransomware? Tackle the cost, risk and complexity of data protection with HPE StoreOnce; disk-based, deduplicating, cloud integrated, backup systems providing automated backup, data recovery and data retention for Hybrid IT.

Cut the cost of data protection with a single, unified deduplication architecture offering best in class price-performance across the range. HPE StoreOnce protects small, remote offices to enterprise data centers with highly scalable dedicated appliances and agile virtual appliances and with your choice of backup and recovery software to deliver robust, flexible enterprise-wide data protection. StoreOnce can reduce the amount of backup data you need to store by up to 95%. With our scalable architecture you can pay-as-you-grow to retain over a 100 PB (assuming 20:1 deduplication) of protected data on local and cloud storage, managed through a single console.

Reduce the risk with industry-leading backup speeds of up to 288 TB/hr* with an HA federated 8 node system using StoreOnce VSA so you can shrink backup windows and meet the most stringent SLAs. When it comes to backup, data recovery and data retention, HPE StoreOnce includes all the features you'd expect from disk backup including data encryption to secure your data at rest, data in flight** and data in the cloud.

Simplify and enable your hybrid infrastructure, with HPE's single StoreOnce deduplication technology. Managing the movement of backup data has never been easier. The backup-optimized HPE StoreOnce Catalyst interface enables deduplication where you choose; at the data source, on the StoreOnce System and in the cloud. Using Cloud Bank Storage to cloud-enable your current backup and business applications, HPE StoreOnce Systems provide even more flexibility to reduce your cost, risk and complexity. StoreOnce Catalyst prevents exposure of backup copies to ransomware.

Notes:

- *Assumes the use of HPE StoreOnce Catalyst. In all cases, actual performance is dependent upon configuration, data set type, compression levels, number of data streams, number of devices emulated and number of concurrent tasks, such as housekeeping or replication and storage configuration. Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.
- ** Data in Flight encryption via IPSec is supported on HPE StoreOnce Catalyst only. In addition, write performance may be impacted, however performance improvements should be seen after first ingest.

What's New (June 2020)

StoreOnce 4.2.3 extends the ability of StoreOnce VSAs to support Microsoft Hyper-V. This extended hypervisor support means that the StoreOnce VSA 4.2.3 can be run on Microsoft Hyper-V 2016 and Hyper-V 2019 hosts.

The iLO5 firmware has been upgraded to version 1.46 to incorporate the latest security fixes and enhancements. In addition to these updates, new Cloud Bank support allows Catalyst Cloud Bank stores to be created using storage from the Alibaba Cloud Object Storage Service (OSS).

HPE StoreOnce VSA

For information regarding HPE StoreOnce VSA, please refer to the QuickSpecs link below:

https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00067728enw



Overview

Legacy HPE StoreOnce Systems

For information regarding legacy HPE StoreOnce Systems including StoreOnce 6600, 5500, 5100, 3540, 3520, 3100 and VSA, please refer to the QuickSpecs link below:

https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=c04328820&ver=28

Models

| Designed for protection of | Product options | Max usable capacity* (before dedupe) Max performance* with StoreOnce Catalyst |
|--|----------------------------|--|
| Enterprise data centers | HPE StoreOnce 5650 Systems | Scale from 36 to 1.7 PB usable local capacity* and up to 5.2 PB with Cloud Bank Storage. Backup speeds up to 47 TB/hr* |
| Mid-range to enterprise data centers | HPE StoreOnce 5250 Systems | Scale from 36 to 864 TB usable local capacity* and up to 2.56 PB with Cloud Bank Storage. Backup speeds up to 41 TB/hr* |
| | HPE StoreOnce 5200 Systems | Scale from 36 to 216 TB usable local capacity* and up to 648 TB with Cloud Bank Storage. Backup speeds up to 33 TB/hr* |
| | HPE StoreOnce 3640 System | Scale from 36 to 108 TB usable local capacity* and up to 324 TB with Cloud Bank Storage. Backup speeds up to 18 TB/hr* |
| Small to mid-range data centers and remote offices | HPE StoreOnce 3620 System | Scale from 16 to 31.5 TB usable local capacity* and up to 94.5 TB with Cloud Bank Storage. Backup speeds up to 14 TB/hr* |

The StoreOnce portfolio consists of a range of high performance, single node, physical and virtual data protection appliances. For help with choosing the most appropriate StoreOnce System for your specific environment, we recommend you talk to your Hewlett Packard Enterprise partner or sales advisor.

- *In all cases, actual performance is dependent upon configuration, data set type, compression levels, number of data streams, number of devices emulated and number of concurrent tasks, such as housekeeping or replication and storage configuration. Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.
- Cloud Bank Storage is supported for use a Catalyst Copy target. The performance of object storage means it is not supported to use Cloud Bank Storage as a backup target.

Overview

HPE StoreOnce 3620 System

HPE StoreOnce 3620 delivers entry-level disk-based backup and disaster recovery, that's ideal for smaller remote or branch offices and data centers. This 2U Backup System offers 16 to 31.5 TB of usable local capacity, up to 94.5 TB with Cloud Bank Storage and speeds of up to 14 TB/hour with StoreOnce Catalyst.



HPE StoreOnce 3640 System

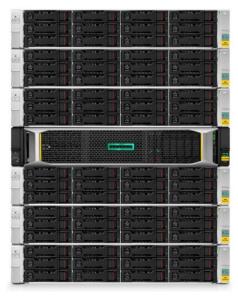
HPE StoreOnce 3640 delivers scalable backup and restore for small to midsized data centers, and provides an ideal replication target device for up to 36 remote and branch offices. This scalable 2U appliance offers from 36 to 108 TB* of usable local capacity using upgrade kits and up to 324 TB with Cloud Bank Storage, and provides a solution to shrinking backup windows with speeds of up to 18 TB/hour using HPE StoreOnce Catalyst.



Overview

HPE StoreOnce 5200 System

HPE StoreOnce 5200 delivers scalable backup and restore for small to midsized data centers, and provides an ideal replication target device for up to 64 remote and branch offices. This scalable 4U appliance offers from 36 to 216 TB* of usable local capacity using upgrade kits and up to 648 TB with Cloud Bank Storage, and provides a solution to shrinking backup windows with speeds of up to 33 TB/hour using HPE StoreOnce Catalyst.



HPE StoreOnce 5250 Systems

HPE StoreOnce 5250 offers disk-based backup with deduplication for longer term on-site data retention and off-site disaster recovery with best-in-class scalability and performance for larger midsize and enterprise data centers. It also provides an ideal replication target for up to 64 remote or branch offices. This highly scalable 7U to 12U appliance delivers from 36 TB to 864 TB of usable local capacity up to 1.7 PB of Cloud Bank Storage capacity and easily tackles shrinking backup windows with backup speeds up to 41 TB/hour* using HPE StoreOnce Catalyst.



Overview

HPE StoreOnce 5650 Systems

HPE StoreOnce 5650 offers disk-based backup with deduplication for longer term on-site data retention and off-site disaster recovery with best-in-class scalability and performance for larger midsize and enterprise data centers. It also provides an ideal replication target for up to 192 remote or branch offices. This highly scalable 7U to 22U appliance delivers from 36 TB to 1.7 PB of usable local capacity up to 3.5 PB of Cloud Bank Storage capacity and easily tackles shrinking backup windows with backup speeds up to 47 TB/hour* using HPE StoreOnce Catalyst.



Standard Features

The following features and benefits apply to all HPE StoreOnce products. Where differences exist between models, they are explained in the description of the benefit.

Scaling out capacity across the enterprise

Keeping pace with data growth, HPE StoreOnce Systems span from an entry level 16 TB model to an enterprise class model with 1.7 PB that can be expanded to 5.2 PB with Cloud Bank Storage.

Choose from dedicated backup appliances to match the capacity and performance requirements of larger offices and data center deployments or virtual appliances utilizing existing infrastructures for virtualized environments and smaller and remote offices.

StoreOnce deduplication can be extended across cloud storage to create a hybrid backup infrastructure. StoreOnce Catalyst can be scaled out over your choice of on premise or cloud object storage to increase capacity and reduce the cost of backup data that requires extended retention times.

Notes: To optimize capacity utilization and in accordance with performance requirements, your capacity requirements should be planned following Recommended Configuration Guidelines.

Reducing your backup data storage needs

HPE StoreOnce deduplication reduces the disk space required to store backup data sets by typically 20x without impacting backup performance. Retaining more backup data on disk for longer, enables greater backup data accessibility for rapid restore of lost or corrupt files and reduces impact on business productivity while providing cost savings in disk storage, IT resource, physical space, and power requirements.

Meeting shrinking backup windows

Industry leading performance - protect large amounts of data within short backup windows with native high performance or the enhanced speed of HPE StoreOnce Catalyst.

Reduce the risk with industry-leading backup speeds of up to 288 TB/hr* with an HA federated 8 node system using StoreOnce VSA so you can shrink backup windows and meet the most stringent SLAs.

You can enhance performance by deduplicating anywhere; at the application source or at the backup server or at the target HPE StoreOnce System. Federated Deduplication means you can deduplicate where it makes sense for your business, not where technology vendor limitations mandate. Federated Deduplication is available across all HPE StoreOnce systems, in conjunction with all applications that support StoreOnce Catalyst.

Notes:

- Actual performance is dependent upon configuration data set type, compression levels, number of data streams, number of devices emulated and number of concurrent tasks, such as housekeeping or replication and storage configuration.
- Values may differ from those used in calculations in the sizer tool.

Reducing the time to restore data

High speed backup is important, but when system failure strikes being able to restore your data in the shortest time possible is critical to minimizing downtime. That's why Hewlett Packard Enterprise offers industry-leading restore speeds with its StoreOnce product line.

Freeing up your IT resources

Reduce the time spent managing multiple data protection devices and processes and free-up IT resources by consolidating and automating all of your backup data onto HPE StoreOnce systems.

For organizations that have branch and small offices, HPE StoreOnce helps you protect the data at remote sites. You can eliminate the need for dedicated hardware if you use StoreOnce VSA at these sites.

Standard Features

Lowering the cost of data protection

With a typical deduplication ratio of 20:1, more backup data can be stored in a smaller footprint meaning less capacity needs to be purchased. What's more, the highly scalable HPE StoreOnce portfolio allows you to pay-as-you grow.

HPE StoreOnce deduplication also enables network efficient offsite data replication. All HPE StoreOnce systems use StoreOnce Federated data deduplication to significantly reduce the amount of data that needs to be replicated, enabling the use of lower bandwidth. lower cost links to transmit data offsite.

StoreOnce enabled replication opens the way to cost-effective centralized backup from remote sites or branch offices, and delivers a consolidated disaster recovery solution for the data center.

Lowering the cost of long term backup data retention

Cloud Bank Storage extends the usable capacity of StoreOnce by combining low object storage costs with StoreOnce deduplication in a hybrid cloud solution. This massively reduces the storage costs of long term backup data retention and enables off site data protection without investing in offsite facilities. This is delivered by an extension to StoreOnce Catalyst that leverages public cloud and/or private object storage. This external object storage is used to provide capacity to the Catalyst Cloud Bank Store. This integrates seamlessly into existing workflows. Backup data is written to a Catalyst Store and then, within the policy of the writing application, all or some of this backup data is copied to the Catalyst Cloud Bank Store for long term retention.

Notes: Cloud Bank Storage is supported for use a Catalyst Copy target. The performance of object storage means it is not supported to use Cloud Bank Storage as a backup target.

Reducing the risk to Data at Rest and Data in Flight**

With high-profile reports of data loss, and increasing levels of government legislation for data security, companies are increasingly seeking to encrypt their data. The HPE StoreOnce security provides for Data at Rest and Data in Flight encryption which prevents unauthorized access to data on disk that has been lost, stolen, or discarded, as well as, data being transmitted between devices. It also offers secure erase functionality. These functions can be configured on an application or store basis and are not restricted to the whole appliance. HPE StoreOnce security is available for all HPE StoreOnce products.

Data in flight encryption is intended to be used to secure links between data centers for StoreOnce Replication or Low Bandwidth Catalyst Copy operations.

Using Data In Flight Encryption for direct backup operations to the StoreOnce System over a local network is not supported due to the performance impact of the encryption.

Notes:**Data in Flight encryption via IPSec is supported on StoreOnce Catalyst only. In addition, write performance may be impacted, however performance improvements should be seen after first ingest.

Seamlessly integrating into your environment

Flexible backup is available with NAS, (NFS, CIFS (SMB), iSCSI and FC virtual tape libraries (VTL) and StoreOnce Catalyst backup targets. This allows each StoreOnce system to be installed and used with all leading backup applications. Flexible connectivity enables fast, easy integration into Fibre Channel (16 Gb and 32 Gb) and Ethernet (1 Gb, 10 and 25 GbE iSCSI) networks. HPE StoreOnce systems are easily rack-mounted in standard racks.,

Extensive compatibility

Hewlett Packard Enterprise extensive compatibility testing program assures that your HPE Systems work with leading, operating systems, data protection software and business application. Please consult

http://www.hpe.com/Storage/StoreOnceSupportMatrix for specific compatibility information.

Standard Features

Delivering reliable backup and restore

In any storage system it is essential to ensure that the integrity of the data stored is maintained so data can be recovered exactly as it was written. There's nothing worse than discovering corrupted backups when you need to restore your data, consequently StoreOnce Systems include HPE StoreOnce Integrity Plus - industry leading patented technology to deliver data integrity throughout the lifecycle. With Integrity Plus you get inbuilt protection which not only checks data at many stages both in the backup process and when recovered, but also continually checks the data when at rest, correcting errors if necessary.

Additionally, HPE StoreOnce systems feature hardware RAID 6 to reduce the risk of data loss due to disk failure.

Protecting your primary storage directly

HPE StoreOnce Recovery Manager Central facilitates automated, efficient, non-intrusive backup and disaster recovery and provides converged data protection by integrating Primera, 3PAR StoreServ, and Nimble primary storage with StoreOnce System storage directly without the need for third-party ISVs. With Recovery Manager Central you get the simplicity and performance of snapshot-based protection to generate application-consistent recovery points combined with the reliability and efficiency of deduplicated backups for guaranteed recovery.

Protecting your remote offices

HPE StoreOnce systems are ideal for remote offices - providing a local backup target and efficient replication to an offsite location. If you are running a virtual server environment in our remote offices you can use the flexibility and simplicity of the HPE StoreOnce VSA.

With HPE StoreOnce Catalyst the movement of data between sites is configured and controlled using your backup application as a single interface for the data protection solution. StoreOnce Catalyst supports a range of flexible configurations that enable the concurrent movement of data from one site to multiple sites, and the ability to cascade data around the enterprise (sometimes referred to as multi-hop).

Eliminate complexity with effortless management

Reduce operational time, complexity and expense with a unified view of multiple StoreOnce systems, both on premises and in the cloud via Federated Management.

Standard Features

HPE StoreOnce 3620 System

| Product Specifications | StoreOnce 3620 |
|---|--|
| Form Factor | 2U Rack |
| Total capacity (raw)** | 48 TB |
| Local usable capacity** | Up to 31.5 TB |
| Effective local usable capacity** | Up to 630 TB (with 20:1 deduplication) |
| Maximum Cloud Bank Storage usable | 63 TB |
| capacity** | |
| Effective Cloud Bank Storage capacity** | 1.26 PB (with 20:1 deduplication) |
| Effective total usable capacity** | 1.9 PB (with 20:1 deduplication) |
| Maximum write performance* | 6 TB/hour |
| Maximum Catalyst write performance* | 14 TB/hour |
| Maximum fan-in/backup targets | 24 |

Notes:

- See Detailed Technical Specifications and Physical Dimensions later in this document for more details.
- Actual performance depends on multiple factors including configuration, data type, data deduplication, data compression, number of data streams, number backup targets and concurrent tasks such as housekeeping or replication.
- ** Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.

HPE StoreOnce 3640 System

| Product Specifications | StoreOnce 3640 |
|---|-----------------------------------|
| Form Factor | 2U Scalable Rack |
| Total capacity (raw)** | Up to 144 TB |
| Maximum local usable capacity** | Up to 108 TB |
| Effective local usable capacity** | 2.16 PB (with 20:1 deduplication) |
| Maximum Cloud Bank Storage usable | 216 TB |
| capacity** | |
| Effective Cloud Bank Storage capacity** | 4.32 PB (with 20:1 deduplication) |
| Effective total usable capacity** | 6.48 PB |
| Maximum write performance* | 7 TB/hour |
| Maximum Catalyst write performance* | 18 TB/hour |
| Maximum fan-in/backup targets | 24 |

- See Detailed Technical Specifications and Physical Dimensions later in this document for more details.
- *Actual performance depends on multiple factors including configuration, data type, data deduplication, data compression, number of data streams, number backup targets and concurrent tasks such as housekeeping or replication.
- ** Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.

Standard Features

HPE StoreOnce 5200 System

| Product Specifications | StoreOnce 5200 |
|---|-----------------------------------|
| Form Factor | 4U Scalable Rack |
| Total capacity (raw)** | Up to 288 TB |
| Maximum local usable capacity** | Up to 216 TB |
| Effective local usable capacity** | 4.32 PB (with 20:1 deduplication) |
| Maximum Cloud Bank Storage usable | 432 TB |
| capacity** | |
| Effective Cloud Bank Storage capacity** | 8.6 PB (with 20:1 deduplication) |
| Effective total usable capacity** | 13 PB |
| Maximum write performance* | 17 TB/hour |
| Maximum Catalyst write performance* | 33 TB/hour |
| Maximum fan-in/backup targets | 32 |

Notes:

- See Detailed Technical Specifications and Physical Dimensions later in this document for more details.
- * Actual performance depends on multiple factors including configuration, data type, data deduplication, data compression, number of data streams, number backup targets and concurrent tasks such as housekeeping or replication.
- ** Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.

HPE StoreOnce 5250 Systems

| Overview Product Specifications | StoreOnce 5250 |
|---|-----------------------------------|
| Form Factor | 7U to 12U Scalable Rack |
| Total capacity** (raw) | Up 1120 TB |
| Total Maximum local usable capacity** | Up to 864 TB |
| Effective local usable capacity** | 17.3 PB (with 20:1 deduplication) |
| Max Cloud Bank Storage usable | 1.7 PB |
| capacity** | |
| Effective Cloud Bank Storage capacity** | 34 PB (with 20:1 deduplication) |
| Maximum total usable capacity** | 51 PB (with 20:1 deduplication) |
| Maximum write performance* | 22 TB/hour |
| Maximum Catalyst write performance* | 41 TB/hour |
| Maximum fan-in/backup targets | 32/64 |

- See Detailed Technical Specifications and Physical Dimensions later in this document for more details.
- * Actual performance depends on multiple factors including configuration, data type, data deduplication, data compression, number of data streams, number backup targets and concurrent tasks such as housekeeping or replication.
- ** Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.

Standard Features

HPE StoreOnce 5650 Systems

| Product Specifications | StoreOnce 5650 |
|--|----------------------------------|
| Form Factor | 7U to 22U Scalable Rack |
| Total capacity** (raw) | Up 2240 TB |
| Total Maximum local usable capacity** | Up to 1.7 PB |
| Effective local usable capacity* | 34 PB (with 20:1 deduplication) |
| Max Cloud Bank Storage usable capacity** | 3.5 PB |
| Effective Cloud Bank Storage capacity** | 70 PB (with 20:1 deduplication) |
| Maximum total usable capacity** | 104 PB (with 20:1 deduplication) |
| Maximum write performance* | 27 TB/hour |
| Maximum Catalyst write | 47 TB/hour |
| performance* | |
| Maximum fan-in/backup targets | 50/192 |

Notes:

- See Detailed Technical Specifications and Physical Dimensions later in this document for more details.
- *Actual performance depends on multiple factors including configuration, data type, data deduplication, data compression, number of data streams, number backup targets and concurrent tasks such as housekeeping or replication. Actual capacity depends on multiple factors including data deduplication, data compression, storage formatting, log file size, meta data size and housekeeping backlog.

Software Options

HPE StoreOnce Catalyst

HPE StoreOnce Catalyst is a data protection optimized interface unique to HPE StoreOnce Systems. It provides higher performance and more flexible control than traditional emulated tape (VTL) targets or NAS Shares. This means that you can benefit from:

- Simplified management of data movement from a single pane of glass: tighter integration with your backup application to centrally manage file replication across the enterprise.
- Seamless control across complex environments: supporting a range of flexible configurations that enable the concurrent movement of data from one site to multiple sites, and the ability to cascade data around the enterprise (sometimes referred to as multi-hop).
- Enhance performance: distributed deduplication processing using StoreOnce Catalyst stores on the StoreOnce systems and on multiple servers can optimize loading and utilization of backup hardware, network links and backup servers for faster deduplication and backup performance.
- Scale out with external object storage to augment the local System storage with the Cloud Bank extension to Catalyst.
- Faster time to backup to meet shrinking backup windows: up to 288 TB/hour* aggregate throughput.
- StoreOnce Catalyst prevents exposure of backup copies to ransomware.

Catalyst over Fibre Channel (CoFC) provides the same benefits as Catalyst over Ethernet (CoE) via a Fibre Channel fabric. Catalyst copy over Fibre Channel (CCoFC) utilizes Fibre Channel to transmit copies between StoreOnce Systems. CoFC and CCoFC are useful for customers that have invested in Fibre Channel infrastructure and/or do not want to expand their Ethernet capacity.

Standard Features

Cloud Bank Storage

Cloud Bank Storage is an extension to StoreOnce Catalyst that combines the low cost of object storage with the storage efficiency of StoreOnce deduplication. It connects to external object storage to provide capacity for the Catalyst Cloud Bank store. Using external storage in addition to the local System storage can triple the effective capacity of the StoreOnce System. Through cloud optimized data transfer and storage, Cloud Bank Storage minimizes cloud transfer and storage costs. The primary use case is to backup to a Catalyst Store and copy the backup data to a Cloud Bank store for low cost long term retention.

Many public cloud providers and on premise object storage systems are supported with Cloud Bank Storage. See the **HPE StoreOnce Support Matrix** for details.

Cloud Bank Storage is a licensed feature. The licenses are available in 1 TB increments. Licenses are added in any multiple of 1 TB up to the maximum Cloud Bank Storage capacity for that System. See the table below for the maximum supported Cloud Bank Storage capacities for each model. The licensed capacity is the capacity written to the all the Cloud Bank Storage after deduplication and compression.

Cloud Bank Storage Capacities

Cloud Bank Storage can treble the usable capacity of StoreOnce systems. The Cloud Bank Storage Detach option can further extend this, practically without limits, by enabling capacity to be recycled. System resources, particularly memory, are needed to support Cloud Bank Storage, in the same way that they are needed to support local storage. To use large capacities of Cloud Bank Storage a memory upgrade is required.

Cloud Bank Storage Capacity

The maximum Cloud Bank Storage capacity that can be used is the maximum local storage capacity less the configured capacity as shown in the table below.

| Standard System Configuration | | |
|-------------------------------|-----------------------|--|
| Model | Maximum local storage | Maximum total usable Capacity using Cloud Bank Storage |
| StoreOnce 5650 | 1.7 PB | 5.2 PB |
| StoreOnce 5250 | 864 TB | 2.5 PB |
| StoreOnce 5200 | 216 TB | 648 TB |
| StoreOnce 3640 | 108 TB | 324 TB |
| StoreOnce 3620 | 31.5 TB | 94.5 TB |

Notes: Unlike legacy products, current products no longer require a memory upgrade

Cloud Bank Storage Detach Option

Many object storage vendors offer 'cold' tiers of that provide reduced cost. The performance of 'cold' tiers is not sufficient for Cloud Bank Storage operation. For Cloud Bank Storage Stores with backup data that will not need to be changed or updated the Store can be detached to enable it to be moved to a cold 'tier'.

The Cloud Bank Storage Detach option disconnects a Store from the host System and puts it into a read only state. It can then be moved, independently of StoreOnce or the backup application, to a 'cold' tier or other location for long term low cost retention. If the detached Store needs to be read for a restore, or other requirement, it has to be moved back to a supported storage tier and reconnected to a StoreOnce System. This can be the original StoreOnce System or to another StoreOnce.

Cloud Bank Storage Detach is a licensed feature. Licenses are available in 1 TB increments. Licenses are added, to a System with one or more Cloud Bank Storage licenses, in any multiple of 1 TB, with no upper limit. When a Store is detached, licenses equal to the capacity of the detached store are consumed and remain with detached Store. On detach the capacity of the detached store is available for other Cloud Bank stores.

Standard Features

Maximum Values for Cloud Bank Storage Licenses

Up to a total of 50 Cloud Bank Storage and Cloud Bank Storage Detach license keys can be added to a System. The capacity enabled by a license key is specified using the https://myenterpriselicense.hpe.com/cwp-ui/auth/login.

The capacity is specified in 1 TB multiples. For the larger Systems, it is recommended to generate license keys with larger multiples of 1 TB to avoid this 50 license key limit becoming a constraint.

Cloud Bank Storage Support Entitlement

Support for Cloud Bank Storage is entitled as part of the HPE Support entitlement for the StoreOnce System the Cloud Bank Storage licenses are installed on. No additional HPE Support Services are available or required.

The HPE StoreOnce Catalyst is supported by:

- HPE Data Protector (for supported versions see
 - http://www.hpe.com/Storage/StoreOnceSupportMatrix
- BridgeHead Software (for supported versions see
 - http://www.hpe.com/Storage/StoreOnceSupportMatrix
- Veritas NetBackup (via an HPE OST plug-in) available
 - http://www.hpe.com/storage/StoreOnce/VERITAS
- Veritas Backup Exec (via an HPE OST plug-in available
- http://www.hpe.com/storage/StoreOnce/VERITAS
- Oracle RMAN (via an HPE plug-in) available from
 - http://www.hpe.com/storage/StoreOnce/OracleRMAN
- Microsoft SQL Server (via HPE plug-in) available from
 - http://www.hpe.com/storage/storeOnce/SQLServer
- SAP HANA (via HPE plug-in) available from
 - http://www.hpe.com/storage/StoreOnce/SAP

Catalyst Data Immutability

Catalyst Stores can be configured with a data immutability period. During the specified period, the backup application(s) accessing the Store will not be able to delete backups that have been retained for less than this specified period. This provides additional protection against malicious or unintended backup data deletion where the role of backup application administrator and StoreOnce System administrator are filled by different people.

See the HPE StoreOnce Support Matrix for backup software specific support for Catalyst data immutability.

HPE StoreOnce Replication

Hewlett Packard Enterprise data replication feature includes replication bandwidth limiting functionality, constraining the amount of bandwidth being used when replicating data for even more network-efficient replication. Without replication bandwidth limiting, a replication job could use as much bandwidth as is available, potentially making other network activities unresponsive. Replication bandwidth limiting is customer configurable at the appliance level via the graphical user interface and is set as a percentage of the available network bandwidth.

HPE Federated Management

The new GUI includes: Federated Dashboard, System Dashboard, Data Services (Catalyst, NAS, VTL), Event log, Reports, Settings (add user privileges, user preferences, Active Directory/LDAP, email notification, licenses, etc.) and help.

Federated Management provides drill-down reporting into deduplication ratio, capacity usage for StoreOnce Catalyst stores, VTL libraries, NAS shares, read/write throughput, replication throughput, stream count, CPU, memory, disk I/O and networking FC channel utilization, threshold alerts via email notification and CSV exporting capability for up to 100** Gen4 systems.

Standard Features

Notes: **With StoreOnce 4.2 or later up to 40 StoreOnce systems can be managed in a federation using a single console. This can be increased up to 100 with agreement from HPE. Please make the request via your HPE representative if you want to manage more than 40 and up to 100 StoreOnce systems in a federation using a single console.

HPE StoreOnce REST API

The StoreOnce REST API provides a well-defined RESTful application programming interface (API) that customers can use for integrating and automating reporting/management capabilities with StoreOnce appliances. The API essentially delivers a programming interface for polling StoreOnce systems with reporting queries at a desired granularity, and the information extracted from the appliances can then be integrated with the customer's own reporting tool allowing for considerable flexibility in monitoring large StoreOnce environments. The API also allow customers to automate select management tasks such as creating and deleting backup targets (StoreOnce Catalyst stores, VTL libraries, NAS shares) and this capability can be integrated with the customer's own management tools. The StoreOnce API can be downloaded from https://hewlettpackard.github.io/storeonce-rest/index.html

HPE StoreOnce Security/Encryption

HPE StoreOnce security provides a Data at Rest and Data in Flight encryption solution, secure Data Shredding features and Data Immutability for data privacy, confidentiality, and integrity of your critical business data while supporting compliance requirements. These are configurable on a by application or by store basis ensuring that you have maximum control over the data you are protecting.

- HPE StoreOnce systems and VSA use cryptographic algorithms and modules that have completed a FIPS 140-2 CAVP/CMVP (Cryptographic Algorithm Validation Program/Cryptographic Module Validation Program) validation. These validated modules are active when the product is configured in FIPS mode thus HPE StoreOnce meets your FIPS 140-2 requirements by:
- Integrating NIST validated cryptographic module(s) into the product to ensure that critical cryptography uses the module(s) to provide cryptographic services;
- Using FIPS-validated cryptographic ciphers/functions
- HPE StoreOnce Data at Rest encryption feature is a software-based solution which provides protection against unauthorized access to data through a stolen, discarded or replaced disk.
- Encryption occurs after data has been deduplicated and prior to writing the data onto disk
- Encryption is enabled on a per store basis (StoreOnce Catalyst, VTL, and NAS targets)
- Meets compliance needs using industry standard Advanced Encryption Standard (AES)-256 encryption algorithm
- It enables the StoreOnce System to request encryption keys from MicroFocus ESKM version 4.0 or greater or Gemalto SafeNet's KeySecure key manager using KMIP protocol for centralized encryption key management.
- Local Key Management is included with the ability to backup and restore keys
- HPE StoreOnce Data in Flight encryption feature protects against unauthorized access of data being transferred over the wire
- Between devices.
- Data in Flight encryption via IPSec is supported on Low Bandwidth StoreOnce Catalyst Copy and Replication only.
 Encryption is enabled via IPSec. In addition, write performance may be impacted, however performance improvements should be seen after first ingest.
- HPE StoreOnce Secure Erase feature protects against unauthorized recovery of deleted data by allowing customers to securely and permanently shred confidential data.
- Secure Erase can be carried out on all data backed up to a VTL, NAS or StoreOnce Catalyst Store
- The HPE StoreOnce Secure Erase feature meets industry standards of NIST SP 800-88
- Secure Erase can erase with 1-pass or multiple random overwrites of 3, 5 or 7 passes

Service and Support

HPE Pointnext Support Services and Warranty Information Protect your business beyond warranty with HPE Support Services

HPE Pointnext Services delivers confidence, reduces risk and helps customers realize agility and stability. Our integrated portfolio of Services for storage help customers reduce costs, optimize data, streamline storage management, and improve backup and recovery. HPE Pointnext Services enable you to choose the right service level, length of coverage and response time as you purchase your new storage solution, giving you full entitlement for the support for need for your IT and business.

Warranty

Hewlett Packard Enterprise provides a 3 year parts exchange, 3 year labor, 3 year on site, normal business hours, next business day response for StoreOnce 3620, 3640, 5200, 5250 and 5650 systems, plus 9x5 phone support for the duration of the warranty.

Recommended Support Services StoreOnce 3620, 3640 and 5200 Optimized Care 3620, 3640 and 5200

HPE Proactive Care with 6 hour call-to-repair commitment, three year Support Service

HPE Proactive Care gives customers an enhanced call experience plus helps prevent problems and maintains IT stability by utilizing tailored, proactive reports with recommendations and advice when your products are connected to HPE. This Service combines three years' proactive reporting and advice with our highest level of hardware support – the HPE 24x7, six hour hardware call-to-repair. Hewlett Packard Enterprise is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable storage systems.

https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf

Standard Care 3620, 3640 and 5200

HPE Proactive Care with 24x7 coverage, three year Support Service

HPE Proactive Care gives customers an enhanced call experience plus helps preventing problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice when your products are connected to HPE. This Service combines three years' proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pd

Basic Care 3620, 3640 and 5200

HPE Foundation Care 24x7, three-year Support Service

HPE Foundation Care 24x7 gives you access to HPE 24 hours a day, seven days a week for assistance on resolving issues. This service includes need based Hardware onsite response within four hours. Simplify your support experience and make HPE your first call to help resolve hardware or software problems.

https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en

Service and Support

Recommended Support Services StoreOnce 5250 and 5650 Optimized Care 5250 and 5650

HPE Proactive Care Advanced - 24x7 coverage, three year Support Service + 20 service credits for 1st year

This services helps achieve a higher return on your product investment with personalized support from a local assigned Account Support Manager who will share best practice advice and personalized recommendations designed to help improve availability and performance to increase stability and reduce unplanned downtime. Leverage your system's ability to connect to HPE for prefailure alerts, automatic call logging and parts dispatch. For business critical incidents, this service offers critical event management to reduce mean time to resolution. This recommendation provides 24x7 coverage with four-hour response for hardware and collaborative support that offers two-hour callback for supported software issues. Collaborative software management is included with independent software vendors unless you have your software support from HPE where we own all cases from start through to resolution.

https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA5-3259ENW&cc=us&lc=en

Standard Care 5250 and 5650

HPE Proactive Care with 24x7 coverage, three year Support Service + 20 services credits for 1st year

HPE Proactive Care gives customers an enhanced call experience plus helps preventing problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice when your products are connected to HPE. This Service combines three years' proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf

Basic Care 5250 and 5650

HPE Proactive Care with 24x7 coverage, three year Support Service + 10 services credits per year

HPE Proactive Care gives customers an enhanced call experience plus helps preventing problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice when your products are connected to HPE. This Service combines three years' proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf

HPE Support Service Credits

Service Credits offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.

Connect your devices

Unlock all of the benefits of your technology investment by connecting your products to HPE. Achieve up to 77% reduction in down time, near 100% diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support.

Notes: HPE Proactive Care and HPE Proactive Care Advanced require that the customer connect their devices to make the most of these services and receive all the deliverables.

Service and Support

Discover, plan, and design

Choose from a rich portfolio of services to make the most of HPE StoreOnce Storage, so you can efficiently and affordably consolidate, manage, and extract value from unstructured data.

Start here to understand your data protection options. Next, develop a methodical plan and design the optimal HPE StoreOnce Storage solution that addresses your unique technology requirements.

HPE Backup Recovery Impact Analysis - Focus placed on service requirements and design as the key to success for gaining a clear understanding of the role of increasingly diverse data protection strategies.

https://h20195.www2.hpe.com/V2/getpdf.aspx/4AA3-8083ENW.pdf

Deploy and integrate

Implement HPE StoreOnce Storage correctly-right from the start-so you can count on reduced risk and accelerated deployment, while implementing a best-practice configuration from day one. Then move on to proactively leverage products, tools, and technology to avoid problems and optimize performance. In this way, you get the most out of your HPE StoreOnce Storage investment, as you keep your staff certified through project-based or residency services.

HPE StoreOnce System Health Check Service

Proactive review of your HPE StoreOnce Storage solution or other HPE deduplication systems, including a review of operational, capacity, and performance data so you can rest assured that everything is operating effectively.

Proactive review of your HPE StoreOnce Storage solution or other HPE deduplication systems, including a review of operational, capacity, and performance data so you can rest assured that everything is operating effectively.

https://h20195.www2.hpe.com/v2/GetPDF.aspx/4AA4-3821ENW.pdf

HPE StoreOnce Firmware Analysis and Implementation Service

HPE Firmware Analysis and Update Implementation Services are technical services that provides the analysis and implementation of firmware updates, taking into account the relevant revision dependencies within the IT environment.

Provides the analysis and implementation of firmware updates, taking into account the relevant revision dependencies within the IT environment.

http://h20195.www2.hpe.com/v2/GetPDF.aspx/4AA4-7728ENW.pdf

HPE Storage Data Migration Services - End-to-end data migration service providing seamless discovery, assessment, planning, and design, completely customizable to your organization's storage area network or network attached storage environment and using innovative software to help you migrate to HPE storage quickly and efficiently.

For more information on HPE Services and Support

To learn more on HPE Storage Services, visit: http://www.hpe.com/services/storage

Or contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized Channel Partner

Service and Support

Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

Configuration Information

Purchasing information

HPE StoreOnce 3620 24 TB Capacity

Description SKU

HPE StoreOnce 3620 24TB System

BB954A

Includes

- HPE 3620 System (2U) with 6 x 4 TB disks
- Easy Install Rail Kit
- EAC Card
- Accessory Kit featuring:
- Start Here Poster
- 2 x Ethernet cables (Cat 5e) 3m
- 2 x Power cords (IEC 320 C13 Connector for Rack PDU)

Notes:

- HPE StoreOnce 3620 systems can be connected to the servers they protect via 1 GbE as well as 10 and 25 GbE, 16 and
 32 Gb Fibre Channel when the appropriate optional hardware is installed.
- They are supported on all 10 GbE and 25 GB network interface cards (NICs) and switches, dependent on the optional network card installed. 1GbE network connections are also supported for sites without 10 or 25 GbE networks (with reduced performance).
- HPE StoreOnce systems are also supported on 100 base-T Ethernet networks, for connection for the Web GUI and CLI
 access, such as a management network in a Data Centre.
- This product is not supported on networks using slower Ethernet technology.

HPE StoreOnce 3620 24 TB Capacity Upgrade

HPE StoreOnce 3620 24TB Capacity Upgrade Kit

BB960A

Includes:

- 6 x 4 TB preconfigured disks
- 1 x StoreOnce 3620 24 TB Capacity Upgrade License Entitlement Certificate
- Capacity Upgrade Start Here Guide

Scalability

Start out with the HPE StoreOnce base unit at 2U with 16 TB usable**. When you're ready, simply purchase a capacity upgrade kit to increase available local capacity to a total of 31.5 TB usable*. Cloud Bank Storage can extend the maximum Catalyst capacity by 63 TB using external object storage for a total usable capacity of 94.5 TB.

- See Detailed Technical Specifications and Physical Dimensions later in this document for more details.
- Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.

Configuration Information

HPE StoreOnce 3640 48 TB System

Description SKU

HPE StoreOnce 3640 48TB System BB955A

Includes

 HPE StoreOnce 3640 System (2U) with12 x 4 TB disks

- Easy Install Rail Kit
- EAC Card
- Accessory Kit featuring:
- Start Here Poster
- 2 x Ethernet cables (Cat 5e) 3m
- 2 x Power cord (IEC 320 C13 Connector for Rack PDU)

HPE StoreOnce 3640 48 TB Capacity Upgrade

HPE StoreOnce 3640 48TB Capacity Upgrade Kit

BB962A

Includes

- D3650 storage enclosure (2U) with
 12 x 4 TB preconfigured disks, redundant power supplies and fan modules, 1 x integrated 12Gb SAS IO Module
- Rack-mounting hardware kit
- Accessory Kit featuring:
- 1 x 0.5m mini-SAS cable
- 2 x Power cords (IEC 320 C13 Connector for Rack PDU)
- 1 x StoreOnce 3640 48 TB Capacity Upgrade License Entitlement Certificate
- Capacity Upgrade Start Here Guide

- HPE StoreOnce 3640 systems can be connected to the servers they protect via 1 GbE as well as 10 and 25 GbE, 16 and
 32 Gb Fibre Channel when the appropriate optional hardware is installed.
- They are supported on all 10 and 25 GbE network interface cards (NICs) and switches, dependent on the optional network card installed. 1GbE network connections are also supported for sites without 10 and 25 GbE networks (with reduced performance).
- HPE StoreOnce systems are also supported on 100 base-T Ethernet networks, for connection for the Web GUI and CLI access, such as a management network in a Data Centre.
- This product is not supported on networks using slower Ethernet technology.
- Also refer to the Software Options section of this QuickSpecs to add licenses for:
 - HPE StoreOnce Encryption
 - HPE Cloud Bank Storage
- Also refer to section detailing Network/Fibre Channel Cards:
 - HPE StoreOnce 10 GbE-T Network Card
 - HPE StoreOnce 16 Gb Fibre Channel Card
 - HPE StoreOnce 10/25Gb
 - o HPE StoreOnce 32Gb
- A total number of 4 in any combination can be used.

Configuration Information

Scalability

Start out with the HPE StoreOnce 3640 48 TB base unit (raw) at 2U with 36 TB usable*. When you're ready, simply purchase up to 2 additional capacity upgrade kits to increase available local capacity to a total of 108 TB usable*. Cloud Bank Storage can extend the maximum Catalyst capacity by 216 TB using external object storage for a total usable capacity of 324 TB.

Notes:*Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.

HPE StoreOnce 5200 System

Description SKU

HPE StoreOnce 5200 Base System BB956A

Includes

- HPE StoreOnce 5200 System (2U) with no data disks
- Easy Install Rail Kit
- EAC Card
- Accessory Kit Featuring:
- Start Here Poster
- 2 x Ethernet cables (Cat5e) 3m
- 2 x Power cords (IEC 320 C13 Connector for Rack PDU)

HPE StoreOnce 5200 48 TB Capacity Upgrade

HPE StoreOnce 5200 48TB Capacity Upgrade Kit

BB964A

Includes

- D3650 storage enclosure (2U) with
 12 x 4 TB preconfigured disks, redundant power supplies and fan modules, 2 x integrated 12Gb SAS IO Modules
- Rack-mounting hardware kit
- SAS cabling included
- Accessory Kit featuring:
 - 2 x Power cords (IEC 320 C13 Connector for Rack PDU)
 - 1 x StoreOnce 5200 48 TB Capacity Upgrade License Entitlement Certificate
 - Capacity Upgrade Start Here Guide

- HPE StoreOnce 5200 systems can be connected to the servers they protect via 1 GbE as well as 10 and 25 GbE, 16 and
 32 Gb Fibre Channel when the appropriate optional hardware is installed.
- They are supported on all 10 and 25 GbE network interface cards (NICs) and switches, dependent on. 1GbE network connections are also supported for sites without 10 and 25 GbE networks (with reduced performance).
- HPE StoreOnce systems are also supported on 100 base-T Ethernet networks, for connection for the Web GUI and CLI
 access, such as a management network in a Data Centre.
- This product is not supported on networks using slower Ethernet technology.
- Also refer to the Software Options section of this QuickSpecs to add licenses for:
 - HPE StoreOnce Encryption
 - HPE Cloud Bank Storage
- Also refer to section detailing Network/Fibre Channel Cards:
 - HPE StoreOnce 10 GbE-T Network Card
 - HPE StoreOnce 16 Gb Fibre Channel Card
 - HPE StoreOnce 10/25Gb
 - HPE StoreOnce 32Gb
- A total number of 4 in any combination can be used.

Configuration Information

Scalability

Start out with the HPE StoreOnce 5200 base unit and first capacity upgrade kit at 4U with 36 TB* usable using D3650 storage enclosure with 12 x 4 TB disks. When you're ready, simply purchase up to 5 additional D3650 storage enclosure capacity upgrade kits to increase available local capacity to a total of 216 TB usable. Cloud Bank Storage can extend the maximum Catalyst capacity by 648 TB using external object storage for a total usable capacity of 13 PB.

Notes:*Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.

HPE StoreOnce 5250 System

Description SKU

HPE StoreOnce 5250 Base System BB958A

Includes

- HPE StoreOnce 5250 System (2U) with no data disks
- Easy Install Rail Kit
- EAC Card
- Accessory Kit featuring:
- Start Here Poster
- 2 x Ethernet cables (Cat 5e) 3m
- 2 x Power cords (IEC 320 C13 Connector for Rack PDU)

HPE StoreOnce 5250/5650 60 TB Drawer/Capacity Upgrade Kit

HPE StoreOnce 5250/5650 60TB Drawer/Capacity Upgrade Kit

BB966A

Includes

- D6020 storage enclosure (5U) with 15 x 4 TB preconfigured data disks, 60 TB (RAW), redundant power supplied and fan modules.
- Rack-mounting hardware kit
- SAS cabling included
- Accessory Kit featuring:
- 4 x Power cords (with IEC 320 C13 plug for Rack PDU)
- 1 x StoreOnce 5250/5650 60 TB Capacity Upgrade License Entitlement Certificate
- Capacity Upgrade Start Here Guide

HPE StoreOnce 5250/5650 44 TB Capacity Upgrade Kit

HPE StoreOnce 5250/5650 44TB Capacity Upgrade Kit

BB974A

Includes

- 11 x 4 TB preconfigured data disks
- 1 x StoreOnce 5250/5650 44 TB (RAW) Capacity Upgrade License Entitlement Certificate (BB975A)
- Capacity Upgrade Start Here Guide

Configuration Information

HPE StoreOnce 5250/5650 120TB Drawer/Capacity Upgrade Kit

Description SKU

HPE StoreOnce 5250/5650 120TB Drawer/Capacity Upgrade Kit

BB968A

Includes

- D6020 storage enclosure (5U) with 15 x 8 TB Preconfigured data disks, 120 TB (RAW), redundant power supplied and fan modules.
- Rack-mounting hardware kit
- SAS cabling included
- Accessory Kit featuring:
 - 4 x Power cords (with IEC 320 C13 plug for Rack PDU)
 - 1 x StoreOnce 5250/5650 120 TB Capacity Upgrade License Entitlement Certificate
- Capacity Upgrade Start Here guide

HPE StoreOnce 5250/5650 88 TB Capacity Upgrade Kit

HPE StoreOnce 5250/5650 88TB Capacity Upgrade Kit

BB976A

Includes

- 11 x 8 TB preconfigured data disks
- 1 x StoreOnce 5250/5650 88 TB (RAW) Capacity Upgrade License Entitlement Certificate (BB977A)
- Capacity Upgrade Start Here Guide

Notes: Also refer to the Software Options section of this QuickSpecs to add licenses for:

- HPE StoreOnce Encryption
- HPE Cloud Bank Storage
- The StoreOnce 5250 can only be installed in racks which provide a distance from the front mounting-rail of the rack to the rear rack-face (the vertical rack surface onto which the rear doors close, the depth of the doors themselves should not be included) of at least 920mm to allow sufficient clearance at the rear for cabling and to allow the hot-swapping of fan modules, PSU modules and I/O modules. Additionally, 35mm of space is required between the front mounting-rail and the nearest point on the inside surface of the front door of the rack to provide sufficient space for the front panels of the system components when the front door is closed.
- A 1U support shelf (P19450-B21) will be automatically added by One Config Advanced (OCA) in the correct quantity to support the initial factory configuration. Any field capacity upgrades (BB966A or BB968A) will get a 1U support shelf automatically added via OCA. This is necessary to support the high density JBOD.
- HPE StoreOnce 5250 systems can be connected to the servers they protect via 1 GbE as well as 10 and 25 GbE, 16 and 32 Gb Fibre Channel when the appropriate optional hardware is installed. The StoreOnce 5250 systems can support up to four of any combination of the 10 or 25 GbE 16 or 32 Gb FC connectivity hardware options.
- They are supported on all 10 and 25 GbE network interface cards (NICs) and switches when configured with the 10GbE hardware option. Default 1Gb base-T Ethernet network connections are also supported for sites without 10 or 25 GbE networks (with reduced performance).
- HPE StoreOnce systems are also supported on 100 base-T Ethernet networks, for connection for the Web GUI and CLI access, such as a management network in a Data Centre.
- This product is not supported on networks using slower Ethernet technology.

Configuration Information

Scalability

Start with the HPE StoreOnce 5250 Base System plus one D6020 storage enclosure, for 36 TB (using 4TB) or 72 TB (using 8 TB) usable** capacity. As needed, add additional drive upgrade kits to a maximum of five, before purchasing an additional D6020 storage enclosure for a total maximum useable capacity of 864 TB**.

Notes:

- It is possible to add a combination of either 4 TB or 8 TB populated storage enclosures to a base with either 4 TB or 8 TB disks, however it is not possible to mix the disk types within an enclosure. All must be either 4 TB or 8 TB disks and all existing enclosures must be fully populated before adding a new enclosure.
- **Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.

Cloud Bank Storage can extend the maximum Catalyst capacity by 1.7 PB using external object storage for a total usable capacity of 51 PB.

HPE StoreOnce 5650 System

Description SKU

HPE StoreOnce 5650 Base System BB959A

Includes

- HPE StoreOnce 5650 System (no data disks)
- Easy Install Rail Kit
- EAC Card
- Accessory Kit featuring:
- Start Here Poster
- 2 x Ethernet cables (Cat 5e) 3m
- 2 x Power cords (IEC 320 C13 Connector for Rack PDU)
- Start Here Poster

HPE StoreOnce 5250/5650 60 TB Drawer/Capacity Upgrade Kit

HPE StoreOnce 5250/5650 60TB Drawer/Capacity Upgrade Kit

BB966A

Includes

- D6020 storage enclosure (5U) with 15 x 4 TB preconfigured data disks, 60 TB (RAW), redundant power supplied and fan modules.
- Rack-mounting hardware kit
- SAS cabling included
- Accessory Kit featuring:
- 4 x Power cords (with IEC 320 C13 plug for Rack PDU)
- 1 x StoreOnce 5250/5650 60 TB Capacity Upgrade License Entitlement Certificate (BB967A)
- Capacity Upgrade Start Here Guide

HPE StoreOnce 5250/5650 44 TB Capacity Upgrade Kit

HPE StoreOnce 5250/5650 44TB Capacity Upgrade Kit

BB974A

Includes

- 11 x 4 TB preconfigured data disks
- 1 x StoreOnce 5250/5650 44 TB (RAW) Capacity Upgrade License Entitlement Certificate
- Capacity Upgrade Start Here Guide

Configuration Information

HPE StoreOnce 5250/5650 120 TB Drawer/Capacity Upgrade Kit

Description SKU

HPE StoreOnce 5250/5650 120TB Drawer/Capacity Upgrade Kit

BB968A

Includes

- D6020 storage enclosure (5U) with 15 x 8 TB preconfigured data disks, 120 TB (RAW), redundant power supplied and fan modules.
- Rack-mounting hardware kit
- SAS cabling included
- Accessory Kit featuring:
- 4 x Power cords (with IEC 320 C13 plug for Rack PDU)
- 1 x StoreOnce 5250/5650 120 TB Capacity Upgrade License Entitlement Certificate
 - Capacity Upgrade Start Here guide

HPE StoreOnce 5250/5650 88 TB Capacity Upgrade Kit

HPE StoreOnce 5250/5650 88TB Capacity Upgrade Kit

BB976A

Includes

- 11 x 8 TB preconfigured data disks
- 1 x StoreOnce 5250/5650 88 TB (RAW) Capacity Upgrade License Entitlement Certificate
- Capacity Upgrade Start Here Guide

Notes: Also refer to the Software Options section of this QuickSpecs to add licenses for:

- HPE StoreOnce Encryption
- HPE Cloud Bank Storage
- The StoreOnce 5650 can only be installed in racks which provide a distance from the front mounting-rail of the rack to the rear rack-face (the vertical rack surface onto which the rear doors close, the depth of the doors themselves should not be included) of at least 920mm to allow sufficient clearance at the rear for cabling and to allow the hot-swapping of fan modules, PSU modules and I/O modules. Additionally, 35mm of space is required between the front mounting-rail and the nearest point on the inside surface of the front door of the rack to provide sufficient space for the front panels of the system components when the front door is closed.
- A 1U support shelf (P19450-B21) will be automatically added by One Config Advanced (OCA) in the correct quantity to support the initial factory configuration. Any field capacity upgrades (BB966A or BB968A) will get a 1U support shelf automatically added via OCA. This is necessary to support the high density JBOD.
- HPE StoreOnce 5650 systems can be connected to the servers they protect via a 10 or 25 GbE, 16 or 32 Gb Fibre
 Channel hardware options. The StoreOnce 5650 systems can support up to four of any combination of the 10 or 25 GbE,
 16Gb and 32Gb FC connectivity hardware options.
- They are supported on all 10 and 25 GbE network interface cards (NICs) and switches when configured with the 10GbE hardware option. Default 1Gb base-T Ethernet network connections are also supported for sites without 10 or 25 GbE networks (with reduced performance).
- HPE StoreOnce systems are also supported on 100 base-T Ethernet networks, for connection for the Web GUI and CLI access, such as a management network in a Data Centre.
- This product is not supported on networks using slower Ethernet technology.

Configuration Information

Scalability

Start with the 7U base, head unit with one D6020 storage enclosure, for 36 TB (using 4TB) or 72 TB (using 8 TB) usable** capacity. As needed, add additional drive upgrade kits to a maximum of five, before purchasing additional D6020 storage enclosures for a total maximum useable capacity of 1728 TB**.

Notes:

- It is possible to add a combination of either 4 TB or 8 TB populated storage enclosures to a base with either 4 TB or 8 TB disks, however it is not possible to mix the disk types within an enclosure. All must be either 4 TB or 8 TB disks and all existing enclosures must be fully populated before adding a new enclosure.
- **Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.

Cloud Bank Storage can extend the maximum Catalyst capacity by 3.5 PB using external object storage for a total usable capacity of 5.2 PB

HPE StoreOnce Catalyst Cloud Bank Storage Ordering Information

Cloud Bank Storage is a licensed based on usable capacity. For all StoreOnce appliances and StoreOnce VSAs, 1 TB licenses are added, in any multiple of 1 TB, up to the maximum for that System.

For StoreOnce VSAs connected to an AutoPass License Server, licenses are added to the license server in 100 TB increments. This capacity is then allocated in 1 TB multiples to the StoreOnce VSAs connected to the license server.

The license entitlement is used to acquire the license key at: https://myenterpriselicense.hpe.com/cwp-ui/auth/login
For StoreOnce appliances: https://myenterpriselicense.hpe.com/cwp-ui/auth/login

License E-LTU

| Description | SKU |
|--|----------|
| HPE StoreOnce Cloud Bank Storage Read/Write for Gen4 Systems 1TB E-LTU | BC012AAE |
| HPE StoreOnce Cloud Bank Storage Detach for Gen4 Systems 1TB E-LTU | BC013AAE |
| License LTU | |

| HPE StoreOnce Cloud Bank Storage Read/Write for Gen4 Systems 1TB LTU | BC012A |
|--|--------|
| HPE StoreOnce Cloud Bank Storage Detach for Gen4 Systems 1TB LTU | BC013A |

HPE StoreOnce Security/Encryption

HPE StoreOnce Data Immutability mitigates risk with added protection against malicious or accidental backup data deletion (see Catalyst Data Immutability for more information)

Notes: Federal Information Processing Standard 140-2 (FIPS 140-2), defines the technical requirements to be used by Federal Agencies when cryptographic-based security is required for protection of sensitive or valuable data. For more details of the FIPS Security Policy please go to

$\frac{https://csrc.nist.gov/CSRC/media/projects/cryptographic-module-validation-program/documents/security-policies/140sp3018.pdf$

Ordering Information

A license is required to enable the encryption capabilities for each HPE StoreOnce system or VSA. All other security features do not require a license.

Model / license for Encryption License eLTU

HPE StoreOnce Encryption E-LTU

BB994AAE

HPE StoreOnce VSA Server Encryption E-LTU

BC007AAE

Configuration Information

Model / license for Encryption License

DescriptionSKUHPE StoreOnce Encryption LTUBB994AHPE StoreOnce VSA Server Encryption LTUBC007A

HPE 10GbE and 16/32Gb FC Connectivity

The following cables are recommended for HPE 10GbE and 16/32Gb Fibre Channel connectivity.

Notes: Optical 16Gb FC, 32Gb FC, and 10GbE SFP transceivers are included in the StoreOnce kits. Separate purchase NOT required.

HPE 25GbE Connectivity

The following transceiver and cables are required for HPE 25GbE SFP connectivity.

HPE 25Gb SFP28 SR 100m Transceiver

845398-B21

QK732A

Notes: Optical 25GbE SFPs are NOT included in the StoreOnce 10/25GbE Network Card kits. Separate purchase required. Two(2) per card.

Fiber Optic Cables

The following cables are recommended for all 16/32Gb Fibre Channel and 10/25GbE SFP connectivity.

HPE OM3 Cables

| HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable | AJ833A |
|--|--------|
| HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable | AJ834A |
| HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable | AJ836A |
| HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable | AJ837A |
| HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable | AJ838A |
| HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable | AJ839A |
| HPE PremierFlex OM4 Fiber Optic Cables | |
| HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable | QK732A |

| HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable | QK/32A |
|--|--------|
| HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable | QK732A |
| HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable | QK732A |
| HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable | QK732A |
| HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable | QK732A |

Notes: Fiber cables must be purchased separately for fiber-optic environments.

Direct Attach Copper Cables

The following cables are supported for 25GbE and 10GbE SFP direct attach copper connectivity.

25GbE SFP Connectivity

| • | |
|---|------------|
| HPE 25Gb SFP28 to SFP28 3m Direct Attach Copper Cable | 844477-B21 |
| HPF 25Gb SFP28 to SFP28 5m Direct Attach Copper Cable | 844480-B21 |

10GbE SFP Connectivity (New H3C switches)

HPE Premier Flex LC/LC Multi-mode OM4 2 fiber 1m Cable

| HPE FlexNetwork X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable | JD095C |
|--|--------|
| HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable | JD096C |
| HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable | JD097C |

Notes: Direct Attach Cable (DAC) must be purchased separately for copper environments.

Direct Attach CAT 6A Cables

The following cables are recommended for 10GBASE-T connectivity.

Direct Attach Cables

| HPE Synergy Frame Link Module CAT6A 1.2m Cable | 861412-B21 |
|--|------------|
| HPE Synergy Frame Link Module CAT6A 3m Cable | 861413-B21 |

Notes: Direct Attach Cable (DAC) must be purchased separately for CAT 6A twisted pair environments.

Configuration Information

Flexible I/O Options - Network/Fibre Channel Cards

HPE StoreOnce Appliances enable users to choose up to four I/O optional interfaces from the following:

- 10/25Gb Ethernet
- 10Gb BaseT Ethernet
- 16Gb Fibre Channel
- 32GB Fibre Channel

Any combination of interfaces can be selected but must be installed in the correct slots. All flexible I/O cards have dual ports. The interfaces are licensed and entitlement certificated are supplied with the product. Factory installed interfaces have licenses pre-installed. Interfaces are supported on StoreOnce 3620/3640/5200/5250 and 5650

| Description | SKU |
|--|------------|
| HPE StoreOnce Gen4 10/25Gb SFP Network Card | BB982A |
| Notes: 10Gb SFP only supplied with product | |
| HPE 25Gb SFP28 SR 100m Transceiver | 845398-B21 |
| HPE StoreOnce Gen4 10GbE-T Network Card | BB984A |
| HPE StoreOnce Gen4 16Gb Fibre Channel Network Card | BB986A |
| HPE StoreOnce Gen4 32Gb Fibre Channel Network Card | BB990A |

Flexible Installation And Startup SKU's And Option Bands

HPE StoreOnce 3620, 3640, 5200, 5250 and 5650 System Installation and Startup service Fixed Service SKU

| HPE Storeonce 36xx Capacity Upgrade Startup Service | H7RC8E |
|---|--------|
| HPE Storeonce 36xx Capacity Upgrade Startup Service | H7RC8E |
| HPE Storeonce 5200 Startup Service | H7RC9E |
| HPE Storeonce 5200 Capacity Upgrade Startup Service | H7RD0E |

Flexible Service

| HPE StoreOnce 36xx Stup SVC | HA124A1#5VF |
|---|-------------|
| HPE StoreOnce 36xx Cap Upg Stup SVC | HA124A1#5VG |
| HPE StoreOnce 5200 Stup SVC | HA124A1#5VL |
| HPE StoreOnce 5200 Cap Upg Stup SVC | HA124A1#5VN |
| HPE StoreOnce 52/5650 Stup SVC | HA124A1#5WQ |
| HPE StoreOnce Addl 1 day Startup SVC | HA124A1#5V0 |
| HPE StoreOnce 52/5650 Drwr Upg Stup SVC | HA124A1#5WS |
| HPE StoreOnce 52/5650 Cap Upg Stup SVC | HA124A1#5X2 |

Installation and Startup Service: https://h20195.www2.hpe.com/v2/GetPDF.aspx/4AA2-9557ENW.pdf

Configuration Information

Advanced start-up services

HPE StoreOnce Catalyst and Replication Solution Service

HPE StoreOnce Catalyst Solution and Replication Solution Services. They provide a best practice configuration and verification service in the Customer environment to optimize the benefits of deploying Replication and\or Catalyst functionality. These service are available in 3 levels. Within the scope of the service, StoreOnce VSA configuration can be part of the solution service.

Description SKU

| HPE StoreOnce Catalyst solution service lvl1 | HA124A1#5TY |
|---|-------------|
| HPE StoreOnce Catalyst solution service lvl2 | HA115A1#5TZ |
| HPE StoreOnce Catalyst solution service lvl3 | HA115A1#5UO |
| HPE StoreOnce Replication solution service IvI1 | HA124A1#58E |
| HPE StoreOnce Replication solution service IvI2 | HA115A1#58F |
| HPE StoreOnce Replication solution service IvI3 | HA115A1#58G |

Notes: One service is required for each site when the appropriate licenses are ordered.

Catalyst Solution Service: http://h20195.www2.hpe.com/V2/GetPDF.aspx/4AA4-4489ENN.pdf
Replication Solution Service: http://h20195.www2.hpe.com/V2/GetPDF.aspx/4AA4-3945ENW.pdf

HPE StoreOnce single node Catalyst Startup Service

Combined with the HPE StoreOnce 36xx, 5200 and 52/5650 Installation and Startup Service, the HPE StoreOnce single node Catalyst Startup Service provides implementation and verification of the backup and remote copy features of HPE StoreOnce Catalyst. Within the scope of the service, StoreOnce VSA configuration can be part of the startup service.

HPE StoreOnce single node Catalyst startup SVC

HA124A1#5T7

Notes: One service is required for each site when the appropriate licenses are ordered.

Catalyst single node startup service: http://h20195.www2.hpe.com/v2/GetPDF.aspx/4aa4-9988ENW.pdf

HPE StoreOnce integration service

The StoreOnce Integration Services are intended to provide proven HPE best practice integration between the Customer's enterprise backup application and StoreOnce. This service helps customers utilize the advanced features of their backup software with StoreOnce for an optimized end-to-end solution. https://h20195.www2.hpe.com/V2/GetPDF.aspx/4AA6-3678ENW.pdf

HPE StoreOnce Integration Level 1 SVC
HPE StoreOnce Integration Level 2 SVC

H8E02A1

H8E03A1

Configuration Information

The HPE StoreOnce Recovery Manager Central software installation and startup service provides

deployment of the HPE

StoreOnce Recovery Manager Central software, with features designed to both help ensure proper installation in the storage environment and increase the benefit from the storage investment.

Provides deployment of HPE RMC software with features designed to help enable proper installation in the customer's storage environment and increase the benefit from the storage investment

http://h20195.www2.hpe.com/v2/GetPDF.aspx/4aa5-6254ENW.pdf

HPE Recovery Manager Central (RMC) Solution for SAP HANA® on HPE 3PAR service is designed to assist in achieving a higher speed and lower cost backup in comparison to traditional backup applications

| https://www.hpe.com/l | h20195/v2/get | pdf.aspx/a000 | 16443enw.pdf |
|-----------------------|---------------|---------------|--------------|
| | | | |
| | | | |

| Description Flexible (Fixed) | SKU |
|---|-------------|
| HPE RMC for 3PAR and StoreVirtual VSA | HA124A1#5WD |
| HPE Recovery Manager Central Installation and Startup Service(U7PE6E) | |
| HPE RMC-V for 3PAR | HA124A1#5WE |
| HPE Recovery Manager Central VMware for 3PAR Installation and Startup Service(U7PE7E) | |
| HPE RMC-S for 3PAR | HA124A1#5ZB |
| HPE Recovery Manager Central SQL Startup Service(U7VG3E) | |
| HPE RMC-O for 3PAR | HA124A1#5ZG |
| HPE Recovery Manager Central Oracle for 3PAR Installation and Startup Service(U7VG6E) | |
| HPE RMC-E for 3PAR | HA124A1#5SD |
| HPE Recovery Manager Central Exchange for 3PAR Startup Service(U7VG2E) | |
| HPE RMC-SH single node for 3PAR | HA124A1#5F0 |
| HPE Recovery Manager Central SAP HANA single node for 3PAR Startup Service(H2UT0E) | |
| HPE RMC Soltn/SAP HANA on 3PAR Lvl1 SVC | H5UR7A1 |
| HPE RMC Soltn/SAP HANA on 3PAR Lvl2 SVC | H7RF6A1 |
| HPE RMC Soltn/SAP HANA on 3PAR Lvl3 SVC | H7RF7A1 |
| HPE RMC Soltn/SAP HANA/3PAR Cust Sow SVC | H1WV1A1 |

HPE StoreOnce System Health Check Service

Proactive review of your HPE StoreOnce Storage solution or other HPE deduplication systems, including a review of operational, capacity, and performance data so you can rest assured that everything is operating effectively.

| Description | Support Service SKU | Per Event | Contractual |
|--|---------------------|-----------|-------------|
| HPE StoreOnce Backup Sys HealthCheck SVC | HM006A1 | HM006AE | HM006AC |

Proactive review of your HPE StoreOnce Storage solution or other HPE deduplication systems, including a review of operational, capacity, and performance data so you can rest assured that everything is operating effectively.

https://h20195.www2.hpe.com/v2/GetPDF.aspx/4AA4-3821ENW.pdf

HPE StoreOnce Firmware Analysis and Implementation Service

HPE Firmware Analysis and Update Implementation Services are technical services that provides the analysis and implementation of firmware updates, taking into account the relevant revision dependencies within the IT environment.

| Description | Support Service SKU | Per Event | Contractual |
|--|---------------------|-----------|-------------|
| HPE HPSD Firmware Update Analysis SVC | HM001A1 | HM001AE | HM001AC |
| HPE HPSD Firmware Update Implement SVC | HM002A1 | HM002AE | HM002AC |

Provides the analysis and implementation of firmware updates, taking into account the relevant revision dependencies within the IT environment.

http://h20195.www2.hpe.com/v2/GetPDF.aspx/4AA4-7728ENW.pdf

Technical Specifications

Family Information

| <u>.</u> | StoreOnce 3620 | StoreOnce 3640 | StoreOnce 5200 | StoreOnce 5250 | StoreOnce 5650 |
|--|--|------------------------------|----------------|--------------------|----------------|
| Form Factor | 2U Rack | 2U up to 6U | 7U up to 12U | 4U up to 14U | 7U up to 22U |
| Total Capacity (RAW) | 48 TB | 144 TB | 288 TB | 560 TB / 1120TB | 1120 TB / 2240 |
| Max Local Capacity (Usable***) | 31.5 TB | 108 TB | 216 TB | 864 TB | 1.7 PB |
| Max Cloud Bank Storage capacity | 63 TB | 216 TB | 432 TB | 1.7 PB | 3.5 PB |
| Max Total capacity | 94.5 TB | 324 TB | 648 TB | 2.5 PB | 5.2 PB |
| Logical capacity with 20: 1 deduplication | 1.9 PB | 6.48 PB | 13 PB | 50 PB | 104 PB |
| Fan-in Max | 24 | 24 | 32 | 32 | 50 |
| Write Performance | 6 TB/hr | 7 TB/hr | 17 TB/hr | 22 TB/hr | 27 TB/hr |
| | (max aggregated da | ta transfer rate using | VTL) | | |
| Read Performance | 5 TB/hr | 6 TB/hr | 17 TB/hr | 18 TB/hr | 18 TB/hr |
| | (max aggregated da | ta transfer rate using | VTL) | | |
| Catalyst write performance | 14 TB/hr | 18 TB/hr | 33 TB/hr | 41 TB/hr | 47 TB/hr |
| Emulation type | For D2DBS Generic Libraries, tape drive types emulated are Ultrium-VT, LTO-2 thu LTO-7 For EML and ESL E Series Libraries, tape drive types emulated are LTO-2 thu LTO-7 For IBM-TS3500 Libraries, tape drive types emulated are IBM, LTO-3 and LTO-5 For MSL G3 Series Libraries, tape drive types emulated are LTO-2 thu LTO-7 | | | | |
| Target types | HPE StoreOnce Cata NAS (CIFS and NFS) | alyst, Virtual Tape Lik) | orary (VTL) | | |
| Max targets (Catalyst, VTL NAS combined) | 24 | 36 | 64 | 64 | 192 |
| Maximum concurrent streams | 128 | 192 | 512 | 512 | 1024 |
| Max VTL Cartridges per Appliance | 24,576 | 147,456 | 1,048,576 | 1,048,576 | 3,145,728 |
| Max VTL cartridges per Library | 1,024 | 4,096 | 16,384 | 16,384 | 16,384 |
| I/O standard | 4x 1GbitE | ' | ' | ' | ' |
| Disk drives | 4 TB | 4 TB | 4 TB | 4/8 TB | 4/8 TB |
| Number of Disk Drives | 6 | 12 | 0 in base/12 | 0 in base/70 | 0 in base/70 |
| טוועכ | | | | | |

- *** Actual usable capacity for customer data storage is dependent upon drive formatting, log file meta data size, housekeeping backlog and may differ from that which is used in calculations in the sizer tool.
- 1: See the http://www.hpe.com/Storage/StoreOnceSupportMatrix
- StoreOnce VSA pages for more information.

| Model & usable capacity points (TB) ¹ | SKU ² | Usable Capacity ¹ | Configuration comments |
|--|---|---------------------------------|--|
| StoreOnce 3620 | BB954A - HPE StoreOnce 3620 24TB System | 16 | Base product, 1 required |
| 16, 31.5 | BB960A - HPE StoreOnce 3620 24TB Capacity Upgrade Kit | 16 | Capacity expansion, min 0, max 1, add to base (BB954A) |
| StoreOnce 3640 | BB955A – HPE StoreOnce 3640 48TB System | 36 | Base product, 1 required |
| 36, 72, 108 | BB962A - HPE StoreOnce 3640 48TB Capacity Upgrade Kit | 36 | Capacity expansion, min 0, max 2, add to base (BB955A) |
| StoreOnce 5200 36, 72, 108, 144, 180, | BB956A - HPE StoreOnce 5200 Base System | 0 | Base product, no user storage, 1 required |
| 216 | BB964A – HPE StoreOnce 5200 48TB Capacity Upgrade Kit | 36 | Capacity expansion, min 1, max 6, add to base (BB956A) |
| | | | |
| StoreOnce 5250 ³ with 4TB HDDs: 36, | BB958A - HPE StoreOnce 5250 Base System | 0 | Base product, no user storage, 1 required |
| 72, 108, 144, 180,216, 252, 288, 324, 360, 396, 432 | BB966A - HPE StoreOnce 5250/5650 60TB Drawer/Capacity Upgrade Kit | 36 | Part populated capacity expansion drawer with 4TB HDDs, min 1, max 2, add to base (BB958A) |
| With 8TB HDDs: 72, 144, 216, 288, 360, 432, 504, 576, 648, | BB974A - HPE StoreOnce 5250/5650 44TB Capacity Upgrade Kit | 36 | 4TB HDD pack for capacity expansion drawer min 0, max 5 per drawer (BB966A) |
| 720, 792, 864 | BB968A - HPE StoreOnce 5250/5650 120TB Drawer/Capacity Upgrade Kit | 72 | Part populated capacity expansion drawer with 8 TB HDDs, min 1, max 2, add to base (BB958A) |
| | BB976A - HPE StoreOnce 5250/5650 88TB Capacity Upgrade Kit | 72 | 8TB HDD pack for capacity expansion drawer min 0, max 5 per drawer (BB968A) |
| | | | |
| StoreOnce 5650 ⁴ With 4TB HDDs 36, | BB959A - HPE StoreOnce 5650 Base System | 0 | Base product, no user storage, 1 required |
| 72, 108, 144, 180,216, 252, 288, 324, 360, 396, 432, 468, 504, | BB966A - HPE StoreOnce 5250/5650 60TB Drawer/Capacity Upgrade Kit | 36 | Part populated capacity expansion drawer with 4TB HDDs, min 1, max 4, add to base (BB959A) |
| 540, 576, 612, 648, 684, 720, 756, 792, 828, 864 | BB974A - HPE StoreOnce 5250/5650 44TB Capacity Upgrade Kit | 36 | 4TB HDD pack for capacity expansion drawer, min 0, max 5 per drawer (BB966A) |
| With 8 TB HDDs 72, 144, 216, 288, 360, 432, 504, 576, 648, | BB968A - HPE StoreOnce 5250/5650 120TB Drawer/Capacity Upgrade Kit | 72 | Part populated capacity expansion drawer with 8 TB HDDs, min 1, max 4, add to base (BB959A) |
| 720, 792, 864, 936, 1008, 1080, 1152, 1224, 1296, 1368, 1440, 1512, 1584, 1656, 1728 | BB976A - HPE StoreOnce 5250/5650 88TB Capacity Upgrade Kit | 72 | 8TB HDD pack for capacity expansion drawer, min 0, max 5 per drawer (BB968A) |
| StoreOnce VSA ⁵ 4 – 500 in 1TB | BC002AAE - HPE StoreOnce VSA 4TB Base eLTU | 4 | Base product, 1 required |
| increments | BC003AAE - HPE StoreOnce VSA Stackable 1TB eLTU | 1 | Capacity expansion, add individually or in multiples, min 0, max 496 per base product (BC002AAE) |

Technical Specifications

Notes:

- ¹This capacity is the user data capacity net of the RAID overhead. The actual usable capacity will be reduced by the file system and metadata storage.
- ²SKU names include raw (not usable) capacity
- ³StoreOnce 5250 solutions can be composed of a base system (BB958A) plus:
- 1 or 2 drawers with 4 TB HDDs (BB966A) or 8TB HDDs (BB968A)
- Each drawer can contain different capacity HDDs but all the HDDs in a drawer must be the same capacity
- StoreOnce 5650 solutions can be composed of base system (BB959A) plus:
- 1, 2, 3 or 4 drawers with 4 TB HDDs (BB966A) or 8TB HDDs (BB968A)
- Each drawer can contain different capacity HDDs but all the HDDs in a drawer must be the same capacity
- See <u>StoreOnce VSA QuickSpecs</u> for more details

Power Requirements

All figures in the tables below reflect typical data center power configurations

| StoreOr | nce 5650 |) | | | | | | | | | | | | |
|--------------|----------|-----|------|----------|------|--------|------|------|------|--------|------|------|------|--------|
| | Qty | | 208V | <i>'</i> | | | 220\ | / | | | 240\ | / | | |
| Syste m | D6020 | HDD | A | W | VA | BTU/hr | А | W | VA | BTU/hr | A | W | VA | BTU/hr |
| Base | 1 | 15 | 7.3 | 1486 | 1511 | 5066 | 7 | 1484 | 1520 | 5058 | 6.4 | 1485 | 1531 | 5064 |
| 1 Enc Max | 1 | 70 | 10.7 | 2207 | 2227 | 7526 | 10.2 | 2204 | 2227 | 7514 | 9.4 | 2204 | 2241 | 7516 |
| 2 Enc Min | 2 | 85 | 14.4 | 2954 | 2997 | 10070 | 13.7 | 2949 | 3008 | 10056 | 12.7 | 2951 | 3031 | 10063 |
| 2 Enc Max | 2 | 140 | 17.9 | 3675 | 3713 | 12531 | 16.9 | 3669 | 3715 | 12511 | 15.6 | 3671 | 3741 | 12516 |
| 3 Enc Min | 3 | 155 | 21.6 | 4421 | 4483 | 15076 | 20.5 | 4415 | 4495 | 15053 | 18.9 | 4418 | 4532 | 15063 |
| 3 Enc Max | 3 | 210 | 25 | 5143 | 5199 | 17536 | 23.7 | 5135 | 5202 | 17509 | 21.9 | 5137 | 5242 | 17516 |
| 4 Enc Min | 4 | 225 | 28.7 | 5889 | 5969 | 20081 | 27.2 | 5880 | 5982 | 20050 | 25.2 | 5884 | 6032 | 20063 |
| 4 Enc Max | 4 | 280 | 32.2 | 6610 | 6685 | 22541 | 30.5 | 6600 | 6690 | 22506 | 28.1 | 6603 | 6742 | 22516 |

Notes: Worst case power usage when server and enclosure fans operate at max speed.

| StoreO | toreOnce 5250 | | | | | | | | | | | | | |
|--------------|---------------|-----|------|------|------|--------|------|------|------|--------|------|------|------|-----------------------|
| | Qty | | 208V | | | 220V | | | | 240\ | 240V | | | |
| Syste m | D6020 | HDD | А | W | VA | BTU/hr | А | W | VA | BTU/hr | A | W | VA | BTU, hr |
| Base | 1 | 15 | 6.8 | 1377 | 1402 | 4694 | 6.5 | 1375 | 1410 | 4687 | 6 | 1376 | 1422 | 4692 |
| 1 Enc Max | 1 | 70 | 10.2 | 2098 | 2118 | 7154 | 9.7 | 2095 | 2119 | 7143 | 8.9 | 2096 | 2192 | 7145 |
| 2 Enc Min | 2 | 85 | 13.9 | 2845 | 2888 | 9699 | 13.2 | 2840 | 2898 | 9684 | 12.2 | 2843 | 2923 | 9692 |
| 2 Enc Max | 2 | 140 | 17.4 | 3566 | 3604 | 12159 | 16.4 | 3560 | 3606 | 12140 | 15.2 | 3562 | 3633 | 121 ⁴ 5 |

Notes: Worst case power usage when server and enclosure fans operate at max speed.

HPE StoreOnce Systems

Technical Specifications

| StoreOnce 5 | toreOnce 5200 | | | | | | | | | | | | | | |
|------------------|---------------|-----|-----|------|------|--------|------|------|------|--------|-----|------|------|---------|--|
| | Qty | | 208 | 208V | | | 220 | 220V | | | | 240V | | | |
| System | D3650 | HDD | Α | W | VA | BTU/hr | Α | W | VA | BTU/hr | Α | W | VA | BTU /hr | |
| Base | 1 | 12 | 4.3 | 877 | 891 | 2991 | 4.1 | 876 | 893 | 2987 | 3.8 | 877 | 900 | 2988 | |
| 1 Enc | 2 | 24 | 5.7 | 1140 | 1166 | 3888 | 5.4 | 1139 | 1171 | 3882 | 5 | 1140 | 1181 | 3886 | |
| Expansion | | | | | | | | | | | | | | | |
| 2 Enc | 3 | 36 | 7 | 1403 | 1442 | 4785 | 6.6 | 1401 | 1449 | 4778 | 6.1 | 1403 | 1464 | 4784 | |
| Expansion | | | | | | | | | | | | | | | |
| 3 Enc | 4 | 48 | 8.3 | 1666 | 1717 | 5681 | 7.9 | 1664 | 1727 | 5673 | 7.3 | 1666 | 1748 | 5681 | |
| Expansion | | | | | | | | | | | | | | | |
| 4 Enc | 5 | 60 | 9.6 | 1929 | 1992 | 6578 | 9.2 | 1927 | 2005 | 6569 | 8.5 | 1930 | 2032 | 6579 | |
| Expansion | | | | | | | | | | | | | | | |
| 5 Enc | 6 | 72 | 11 | 2192 | 2268 | 7475 | 10.4 | 2189 | 2283 | 7465 | 9.7 | 2193 | 2315 | 7477 | |
| Expansion | | | | | | | | | | | | | | | |

Notes: Worst case power usage when server and enclosure fans operate at max speed.

| StoreOnce 3 | oreOnce 3640 | | | | | | | | | | | | | |
|--------------------|--------------|-----|------|------|------|--------|------|------|------|------------|------|------|------|--------|
| | Qty | | 208V | | | 22 | 220V | | | | 240V | | | |
| System | D3650 | HDD | А | W | VA | BTU/hr | A | W | VA | BTU/h r | А | W | VA | BTU/hr |
| Base | 0 | 12 | 3 | 625 | 626 | 2130 | 2.9 | 624 | 626 | 2126 | 2.6 | 624 | 626 | 2126 |
| 1 Enc Expansion | 1 | 24 | 4.4 | 888 | 902 | 3026 | 4.1 | 886 | 903 | 3022 | 3.8 | 887 | 910 | 3024 |
| 2 Enc Expansion | 2 | 36 | 5.7 | 1151 | 1177 | 3923 | 5.4 | 1149 | 1181 | 3917 | 5 | 1150 | 1194 | 3921 |

Notes: Worst case power usage when server and enclosure fans operate at max speed.

| StoreOnce 3 | toreOnce 3620 | | | | | | | | | | | | |
|-------------|---------------|------|-----|-----|--------|------|-----|-----|--------|------|-----|-----|--------|
| | Qty | 208V | | | | 220\ | / | | | 240\ | / | | |
| System | HDD | Α | W | VA | BTU/hr | Α | W | VA | BTU/hr | Α | W | VA | BTU/hr |
| Base | 6 | 2.7 | 544 | 546 | 1854 | 2.5 | 543 | 545 | 1851 | 2.3 | 543 | 546 | 1852 |
| 1 Disk | 12 | 3 | 608 | 610 | 2074 | 2.8 | 607 | 609 | 2070 | 2.6 | 607 | 610 | 2070 |
| Pack | | | | | | | | | | | | | |
| Expansion | | | | | | | | | | | | | |

Notes Worst case power usage when server fans operate at max speed.

| Power Requirements (per power supply) | |
|---|-----------------------------|
| Range Input Voltage | 100 to 120VAC |
| StoreOnce 3620/3640/5200/5250/5650 and base expansion | 200 to 240VAC |
| Rated Input Frequency | |
| StoreOnce 3620/3640/5200/5250/5650 and base expansion | 50 to 60 Hz |
| Rated Input Current | |
| StoreOnce 3620 Base configuration | 3.0A (at 100VAC) |
| j | see table above for 240VAC |
| Rated Input Current | |
| StoreOnce 3640 Base configuration | 3.7A (at 100VAC) |
| 3 | see table above for 240VAC |
| Rated Input Current | |
| StoreOnce 5200 - Base configuration | 6.2A (at 100VAC) |
| StoreOnce 5200 - Max Configuration | 17.3A (at 100VAC) |
| Charles ages of tax configuration | see table above for 240VAC |
| Rated Input Current | |
| StoreOnce 5250 - Base configuration | 7.4A (at 100VAC) |
| StoreOnce 5250 - Max configuration | 26.3A (at 100VAC) |
| Storeonee 3230 Max configuration | see table above for 240VAC |
| Rated Input Current | See Table above for 240 VAC |
| StoreOnce 5650 - Base configuration | 8.7A (at 100VAC) |
| StoreOnce 5650 - Max configuration | 48.7A |
| Storeofice 3030 - Max configuration | see table above for 240VAC |
| Acoustic Noise StoreOnce 3620/3640 Head unit | See Table above for 240 VAC |
| Idle | LWAd 4.4B |
| (disks spinning) | LpAm 31 dBA |
| Operating | LWAd 4.5B |
| (random seeks to disks) | LpAm 33 dBA |
| Acoustic Noise StoreOnce 5200/ 5250/5650 | Σβ/ (III 33 αΒ/ (|
| Idle | LWAd 4.6B |
| Head unit | ETT to 1.00 |
| (disks spinning) | LpAm 35 dBA |
| Operating | LWAd 4.6B |
| (random seeks to disks) | LpAm 35 dBA |
| Acoustic Noise StoreOnce 3620/3640 | |
| Idle | LWAd 4.4B |
| (disks spinning) | LpAm 31 dBA |
| Operating | LWAd 4.5B |
| (random seeks to disks) | LpAm 33 Dba |
| Acoustic Noise StoreOnce 5200 | • |
| Idle | LWAd 4.6B |
| (disks spinning) | LpAm 35 dBA |
| Operating | LWAd 4.6B |
| (random seeks to disks) | LpAm 35 dBA |
| <u> </u> | <u> </u> |

| Acoustic Noise StoreOnce 3620/3640 Hea | d unit |
|---|-------------|
| ldle | LWAd 4.4B |
| (disks spinning) | LpAm 31 dBA |
| Operating | LWAd 4.5B |
| (random seeks to disks) | LpAm 33 dBA |
| Acoustic Noise StoreOnce 5200/ 5250/565 | 50 |
| ldle | LWAd 4.6B |
| Head unit | |
| (disks spinning) | LpAm 35 dBA |
| Operating | LWAd 4.6B |
| (random seeks to disks) | LpAm 35 dBA |

| Acoustic Noise StoreOnce 3620/3640 | |
|------------------------------------|-------------|
| Idle | LWAd 4.4B |
| (disks spinning) | LpAm 31 dBA |
| Operating | LWAd 4.5B |
| (random seeks to disks) | LpAm 33 Dba |
| Acoustic Noise StoreOnce 5200 | |
| Idle | LWAd 4.6B |
| (disks spinning) | LpAm 35 dBA |
| Operating | LWAd 4.6B |
| (random seeks to disks) | LpAm 35 dBA |

| Physical Dime | nsions | | | | | | | |
|---|--|--|---|---|---|--|--|--|
| StoreOnce Syste | m | 3620 | 3640 | 5200 | 5250 | 5650 | | |
| | Form factor | 2U | | 4U | 7U | | | |
| Dimensions (H x W x D) | Out of box | 8.73 x 44.55 x 73.02 d | cm | 17.46 x 44.8 x 67.94 cm | 30.83 x 44.7 | x 89.12 cm | | |
| | | (3.44 x 17.54 x 28.75 | in) | (6.88 x 17.64 x 26.75 in) | (12.2 x 17.6 | x 35.1 in) | | |
| | Shipping | 26 x 60 x 96 cm (10.4 x 24 x 38.4 in) | | 53.8 x 60 x 96 cm (21.53 x 34 x 38.4 in) | 61 x 81 x 109 cm (24.1 x 31.9 x 43 in) | | | |
| Weight | Out of box | 25 kg (55 lbs) | 29 kg (64 lbs) | 46.2 kg (102 lbs) | 107 kg (236 lbs) | A 43 III) | | |
| | Shipping 36 kg 40 kg (79.4 lbs) (88.2 lbs) | | | 56.2 kg (123.5 lbs) | 130 kg (286.6 lbs) | | | |
| Environmental | Operating temperat ure | 10° to 35°C (50° to 95 (1.8°F per every 1000 sustained sunlight. Maximum rate of chan The upper limit and ra | 10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct | | | | | |
| | Shipping temperat ure | -30° to 60°C (-22° to Maximum rate of chan | 140°F). | 66°F/hr). | | | | |
| | Operating humidity | 8% to 90% - Relative h temperature, non-cond | • | °C maximum wet bulb | | | | |
| | Shock and vibration | Levels of shock the product can withstand with no damage being incurred. The values represent a peak input acceleration during an 11ms half-sine shock pulse. Operating: 2 G's Non-operating: 15 G's Levels of vibration the product can withstand with no damage being incurred. The values represent a flat random vibration input acceleration profile across the given frequency ran Operating: Random vibration at 0.000075 G²/Hz, 10Hz to 300Hz, (0.15 G's nomin Non-operating: Random vibration at 0.00005 G²/Hz, 10Hz to 500Hz, (0.5 G's nomin | | | | | | |
| | Notes: Levels of shock and vibration are for base units/server only. | | | | | | | |
| StoreOnce SystemStoreOnce 3620 24 TB CapacityStoreOnce 3620 24 3640 48 TBStoreOnce 5200 48 TB Capacity Upgrade KitStoreOnce 5200 48 TB Capacity Upgrade KitStoreOnce 5200 48 TB Capacity Upgrade Kit | | | | | StoreOnce 5250/5650 44 TB/88 | StoreOnce 5250/5650 60 TB/120 TB Drawer Upgrade Kit | | |

| StoreOnce Sy | /stem | 3620 | 3640 | 5200 | 5250 | 5650 |
|---------------------------|-------------|--------------------------|------------------------------|---|--------------------------|------------------------------|
| Dimensions (H x W x D) | Form factor | 3.5" LFF Disks | 2U | 2U | 3.5" LFF Disks | 5U |
| , | Out of box | N/A | 8.7 x 44.8 x 59.8 cm | 8.7 x 44.8 x 59.8 cm (3.44 x 17.64 x | N/A | 22.1 x 44.7 x 89.12 cm |
| | | | (3.44 x 17.64 x 23.54 in) | 23.54 in) | | (8.8 x 17.6 x 35.1 in) |
| | Shipping | 54.4 x 24.1 x 90.2 cm | 27.8 x 59.3 x 95.3 cm | 27.8 x 59.3 x 95.3 cm | 54.4 x 24.1 x 90.2 cm | 54 x 61 x 109 cm |
| | | (23 x 9.5 x 35.5 in) | (11.13 x 23.75 x 38.12 in) | (11.13 x 23.75 x 38.12 in) | (23 x 9.5 x 35.5 in) | (21.3 x 24.1 x 43 in) |
| Weight | Out of box | 4.5 kg (10 lbs) | 26.2 kg (57.8 lbs) | 27.2 kg (60 lbs) | 11.4 kg (25.1 lbs) | 88.1 kg (194.2 lbs) |
| | Shipping | 7 kg (15.4 lbs) | 34.4 kg (75.8 lbs) | 35.4 kg (78 lbs) | 14 kg (30.9 lbs) | 106.1 kg (234 lbs) |

Summary of Changes

| Date | Version History | Action | Description of Change |
|--------------|-----------------|---------|---|
| 06-Jul-2020 | Version 43 | Changed | Overview, Configuration Information and Standard Features sections were |
| | | | updated. |
| 18-May-2020 | Version 42 | Changed | Configuration Information and technical Specifications sections were updated. |
| 20-Apr-2020 | Version 41 | Changed | Configuration Information section was updated. |
| 20-Jan-2020 | Version 40 | Changed | Standard Features Configuration Information and technical Specifications |
| | | | sections were updated. |
| 16-Dec-2019 | Version 39 | Changed | Configuration Information Section was updated. |
| 02-Dec-2019 | Version 38 | Changed | Standard Features and Configuration Information sections were updated. |
| 04-Nov-2019 | Version 37 | Changed | Changes made throughout the entire document. |
| 07-Oct-2019 | Version 36 | Changed | VSA information was added and Technical Specifications section was updated. |
| 01-Jul-2019 | Version 35 | Changed | Technical Specifications section was updated. |
| 06-May-2019 | Version 34 | Changed | Overview, HPE StoreOnce Backup Models, Common Features and Benefits, |
| | | | HPE StoreOnce Systems, Technical Specifications and Service and Support |
| | | | sections were updated. |
| 04-Mar-2019 | Version 33 | Changed | Technical Specifications section was updated. |
| 04-Feb-2019 | Version 32 | Changed | HPE StoreOnce VSA Backup, Software Options and Technical Specifications |
| 07.5 | | | sections were updated. |
| 03-Dec-2018 | Version 31 | Changed | Overview, HPE StoreOnce Backup Models, Common Features and Benefits, |
| | | | HPE StoreOnce Systems, Software Options, Technical specifications and |
| 15 0 + 2010 | \/ | Chana | Service and Support sections were updated |
| 15-Oct-2018 | Version 30 | Changed | Overview, HPE StoreOnce Backup Models, Common Features and Benefits, |
| | | | HPE StoreOnce Systems, Software Options, Technical specifications and |
| 01-Oct-2108 | Version 29 | Changed | Service and Support sections were updated Overview, HPE StoreOnce backup, HPE StoreOnce system, Standard Features, |
| 01-001-2100 | Version 29 | Changed | HPE StoreOnce VSA backup, Software Options and Technical Specifications |
| | | | sections were updated |
| 07-May-2018 | Version 28 | Changed | Entitlement Certificate was updated to Capacity Upgrade License Entitlement |
| 07 11dy 2010 | VCISION 20 | Changea | Certificate. |
| | | | Software options section was revised. |
| 02-Apr-2018 | Version 27 | Changed | Technical Specifications was revised |
| | | | SKU descriptions were updated. |
| | | Removed | Obsolete SKUs were removed. |
| 05-Mar-2018 | Version 26 | Changed | The http://www.hpe.com/Storage/DAPRCompatibility URL was updated to: |
| | | | http://www.hpe.com/Storage/StoreOnceSupportMatrix. |
| 05-Feb-2018 | Version 25 | Changed | Overview section was revised. |
| 08-Jan-2018 | Version 24 | Changed | Changes made throughout the QuickSpecs. |
| 04-Dec-2017 | Version 23 | Changed | Changes made throughout the entire document. |
| 25-Sep-2017 | Version 22 | Changed | Changes made throughout the entire document. |
| 07-Aug-2017 | Version 21 | Changed | Changes made throughout the entire document. |
| 11-Jul-2017 | Version 20 | Changed | Changes made throughout the QuickSpecs. |
| 05-Jun-2017 | Version 19 | Changed | Changes made throughout the entire document. |
| 13-Feb-2017 | Version 18 | Changed | Changes made throughout the entire document. |
| 26-Sep-2016 | Version 17 | Changed | Changes made throughout the entire document. |
| 16-Sep-2016 | Version 16 | Changed | Changes made to the VSA Section. |
| 27-May-2016 | Version 15 | Changed | Changes made to cover new perpetual StoreOnce VSA LTUs and the added 20 |
| | | | TB LTU. Clean up HP \rightarrow HPE. Cleaned up units e.g. 20 TB \rightarrow 20 TB (for |
| | | | consistency). |
| 25-Apr-2016 | Version 14 | Changed | Changes made throughout the entire document. |
| 31-Mar-2016 | Version 13 | Changed | Changes made throughout the entire document. |
| 17-Dec-2015 | Version 12 | Changed | Fixed some typos from last version. |
| 01-Dec-2015 | Version 11 | Changed | Changes made throughout the entire document. |
| 24-Jul-2015 | Version 10 | Changed | Changes made throughout the entire document. |



Summary of Changes

| 19-Jun-2015 | Version 9 | Changed | Changed made to the StoreOnce VSA Backup and the Software Options Sections. |
|-------------|-----------|---------|--|
| 08-May-2015 | Version 8 | Changed | Corrected some SKU numbers for the StoreOnce VSA and corrected some URLs. |
| 06-Apr-2015 | Version 7 | Changed | Changed the version to 7 to match Product Bulletin. |
| 30-Mar-2015 | Version 6 | Changed | Changes made throughout the entire document. |
| 30-Jan-2015 | Version 5 | Changed | Edits made to 4900 support shelf, 6500 what's in the box contents and 'What's new' June '14 date removal. |
| 09-Jan-2015 | Version 4 | Changed | Changes to the HPE StoreOnce 6600 purchasing information table. |
| 15-Sep-2014 | Version 3 | Changed | Update the firmware version number of the 6500 model. |
| 18-Aug-2014 | Version 2 | Changed | Changes were made throughout the Overview, Technical Specifications, and Software Options Sections. Product Descriptions Updated. |
| 10-Jun-2014 | Version 1 | New | New QuickSpecs |

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