



HPE StoreOnce Systems

HPE StoreOnce data sheet



HPE StoreOnce Systems with StoreOnce Catalyst is the only disk-based federated deduplication solution providing seamless backup and recovery from the smallest remote sites to the largest enterprises. Is data growth resulting in increased backup times, missed SLAs and more management resources? HPE StoreOnce Systems with StoreOnce Catalyst provides a single, high-performance backup architecture that spans the entire enterprise.

You can reduce the amount of backup data you need to store by 95 percent¹ and choose between powerful dedicated appliances for larger offices and data centers, or flexible virtual appliances for smaller and remote offices. Industry-leading backup and restore speeds means that you can meet shrinking backup windows and recovery SLAs. Plus, with HPE StoreOnce's unique federated deduplication technology, you can dedupe at your preferred location and control the movement of deduplicated data across the enterprise using your backup application.

Seamlessly integrating with your current backup and business applications, HPE StoreOnce Systems provide flexible integration for SAN, Ethernet, and virtualized environments reducing your cost, risk, and complexity.

Key features and benefits

Industry-leading, scale-out architecture from small and remote offices to enterprise data centers

- Scale-out architecture allows you to pay as you grow. Choose capacity points available through virtual backup solutions or dedicated appliances that start small and allow you to add in virtual capacity, shelves, or nodes.
- With a range of capacity points to suit nearly all requirements from small remote offices to enterprise data centers with centralized monitoring through StoreOnce Enterprise Manager.
- For enterprise data centers the StoreOnce 6600 scales from 72 TB usable capacity to 1728 TB usable capacity. With HPE StoreOnce Federated Catalyst customers can reduce the number of stores, and management, of large environments.
- For large and midrange data centers and regional offices, one can choose from the high density HPE StoreOnce 5500 to scale from 36 TB usable capacity to 864 TB usable capacity in a small footprint or the HPE StoreOnce 5100 which scales from 36 TB usable capacity to 216 TB usable capacity.
- For small data centers choose the HPE StoreOnce 3540 which scales from 15.5–31.5 TB usable capacity or the HPE StoreOnce 3520, which scales from 7.5–15.5 TB usable capacity.
- For small and remote offices choose the entry-level HPE StoreOnce 3100 appliance that offers 5.5 TB usable capacity or the HPE StoreOnce VSA virtual appliance. StoreOnce VSA can now be deployed in Microsoft® Azure Cloud. Customers have the flexibility to deploy up to 32 TB of StoreOnce VSA in Azure cloud while reducing cost, risk and complexity when protecting their data and applications.

¹ Get Protected Guarantee Program.
hpe.com/storage/getprotected

Federated deduplication across the enterprise with a single deduplication technology—HPE StoreOnce

- Deduplicate anywhere via physical or virtual appliances—at the application source, the backup server, the target appliance, or directly from HPE 3PAR StoreServ via HPE Recovery Manager Central (RMC). Deduplicate where it makes sense for your business, not where technology vendors' limitations mandate, saving time and money.
- HPE StoreOnce delivers a unified solution for seamless data movement across the enterprise; with cost-effective virtual backup machines ideal for smaller remote offices, high-performance dedicated appliances for larger sites, and highly scalable, powerful systems for your data center.
- Federated deduplication is available across the HPE StoreOnce Systems portfolio—including dedicated appliances, virtual backup solutions, and on media servers and application servers with HPE Data Protector, Veritas NetBackup, and Backup Exec software via OST, Veeam, and BridgeHead software.
- HPE StoreOnce also supports critical business applications via no-cost Catalyst plug-ins for Oracle RMAN, SAP HANA®, and MS SQL.
- HPE StoreOnce Federated Catalyst in a multi-node system allows Catalyst stores to span nodes simplifying backup management and improving available storage in large environments.

Backup within your window and meet your restore SLA's with HPE StoreOnce industry-leading performance

- A broad range of superior, proven price and performance points to meet the challenges of data growth and shrinking backup windows across the enterprise.
- Industry-leading performance of up to 184 TB/hour at the high-end, with HPE StoreOnce 6600 and StoreOnce Catalyst.
- Up to 37.7 TB/hour with StoreOnce 5500, or up to 26.7 TB/hour with StoreOnce 5100.
- Up to 12.7 TB/hour with StoreOnce 3540/3520 or up to 6.4 TB/hour with StoreOnce 3100 and up to 12 TB/hour for StoreOnce VSA with StoreOnce Catalyst.²

Automated, efficient backup and disaster recovery operations with HPE StoreOnce Catalyst

- Manage backup and disaster recovery operations from a single pane of glass with HPE StoreOnce Catalyst. Catalyst over FC provides all the ISV control and source-side deduplication benefits of current StoreOnce Catalyst but via your FC fabric.
- Implement disaster recovery plans that were not previously feasible due to lack of multi-site capabilities, cost of bandwidth, and time.
- One-to-many disaster recovery moves data simultaneously from one site to many sites.
- Cascaded disaster recovery moves data sequentially from one site to any number of other sites.
- Alerting and trending in Reporting Central and HPE StoreOnce Enterprise Manager to enable backup capacity management.

² Based on Internal HPE testing in Q1'16

HPE StoreOnce Systems

Virtual appliance	Supported, depending on model
Drive description	(560) LFF SAS Maximum, depending on model
Drive type	4 TB 7.2K LFF dual-port MDL SAS, 2 TB 7.2K LFF Dual-port MDL SAS, supported depending on model, Note: This will be used to validate maximum capacity value but will not publish on hpe.com .
Capacity	Starting from 1 TB usable capacity 1728 TB maximum usable capacity depending on model
Transfer rate	184 TB/hr Maximum, depending on model
Deduplication	HPE StoreOnce deduplication
Storage expansion options	HPE StoreOnce upgrade kits and expansion modules are available for all HPE StoreOnce productions (apart from 3100)—depending on model
Host interface	1 Gb Ethernet and 10 Gb Ethernet or; 8 Gb Fibre Channel or; 16 Gb Fibre Channel Host interface type and number of ports flexible up to 4 modules (except 3100) For 3520/40 and 5100—1 Gb Ethernet standard, 10GbE SFP, 10GbE-T, 8 Gb FC, 16 Gb FC optional can be added in any configuration up to max quantity 4 For 5500/6600—1 Gb Ethernet standard, 10GbE SFP, 8 Gb FC, 16 Gb FC optional can be added up to max quantity 4 (6600 must be added in pairs)
RAID support	Hardware RAID 6 (RAID 5 with HPE StoreOnce 3100 only) depending on model
Replication support	Yes—HPE StoreOnce replication
Target for backup applications	HPE StoreOnce Catalyst, Virtual Tape Library, and NAS (CIFS/NFS)
Tape devices emulated	HPE LTO-2/LTO-3/LTO-4/LTO-5/LTO-6 Ultrium Tape Drives in MSL2024 Tape Library, MSL4048 Tape Library, HPE D2D generic library with HPE D2D generic tape library
Number of virtual tape libraries and NAS Targets	(384) maximum, depending on model
Number of virtual tape cartridges emulated	(6294156) maximum, depending on model
Maximum number of source appliances	(384) per target device depending on models
Form factor	Depends on model
Warranty (parts/labor/onsite)	Depends on model

The total package

Data replication

Replication, licensed by target, is available for the HPE StoreOnce Systems to provide centralized data protection and DR for remote offices. HPE StoreOnce Catalyst, licensed by the system or couplet, one of the most efficient backup interfaces, simplifies the management and enhances the efficiency of data movement across the enterprise.

For more information on licensing replication for the HPE StoreOnce Systems visit the product's Q&A page at hpe.com/h20195/v2/GetDocument.aspx?docname=c04328820

Scalable upgrades

HPE StoreOnce 6600—start with 72 TB usable capacity and scale up to 1728 TB usable capacity

HPE StoreOnce 5500—start with 36 TB usable capacity and scale up 864 TB usable capacity

HPE StoreOnce 5100—start with 36 TB usable capacity and scale up to 216 TB usable capacity

HPE StoreOnce 3540—start with 15.5 TB usable capacity and scale up to 31.5 TB usable capacity

HPE StoreOnce 3520—start with 7.5 TB usable capacity and scale up to 15.5 TB usable capacity

HPE StoreOnce VSA is offered in 4 TB, 10 TB, 20 TB, 32 TB, or 50 TB of usable capacity.

This provides customers flexibility to select the right StoreOnce VSA model according to their budget and data protection requirements.

HPE also offers a free 1TB HPE StoreOnce VSA (without support) providing secure backup and drastically reduced storage costs, power consumption, and rack space requirements.

It's an ideal data protection solution for protecting small amounts of data or for extended evaluation before deciding to buy the higher capacity VSA. Get your free 1TB StoreOnce VSA at hpe.com/storage/freebackup

HPE Data Protector software

HPE Data Protector is backup and disaster recovery software enabling reliable, efficient data protection. Reducing backup and recovery complexity and cost, by protecting virtual and physical machines and business applications with management from a central console. Sophisticated multi-site reporting validates the backup and restore processes and can be used with HPE StoreOnce Systems replication capability. Centralized management and flexible licensing structure can reduce the cost of ownership by up to 70 percent relative to other backup and recovery applications.³

hpe.com/software/dataprotector

³ Based on Internal HPE testing in Q1'16

Periodic copy to HPE Tape for archive

The HPE StoreOnce is ideal solution for regular and daily backup; there is no longer any need to store daily incremental backups on tape. However, HPE still recommends periodic copy-to-tape as one of the most cost-effective, energy-efficient, and robust solution for long-term archival of data to meet regulatory requirements or offsite storage for disaster recovery where data replication is not an option. Copy-to-tape is executed using the backup and recovery management software such as HPE Data Protector. For more information visit hpe.com/storage/StoreEver

HPE Services

Expert HPE Storage consultants and service professionals sit down with you and your team to map your storage needs. Not only can we help you accelerate implementation and reduce deployment risk, but we can also help you realize the full value of your storage purchases as you transform storage for the New Style of IT.

Advise, transform, and integrate: Navigate through the complexities of storage, backup, archive, disaster recovery, and Big Data with advisory, transformation, and integration consulting.

Deploy and implement: Access expertise to support deployment, operations, relocation, sanitization, and disposal, plus improvement-focused education.

Operate and support: Find the level of personalized, proactive, and simplified support right for your business:

- **HPE Foundation Care:** System-level IT hardware and software support delivers flexible coverage window and response time for more choice and simplicity.
- **HPE Proactive Care Service:** Combined reactive and proactive services provide easy-to-purchase, cost-efficient system-level support coupled with personalized expert advice and products connected to HPE to help prevent problems and reduce downtime.
- **HPE Proactive Care Advanced:** Builds on and incorporates Proactive Care and also gives customers personalized technical and operational advice from an assigned, local Account Support Manager for personalized technical collaboration. It also provides flexible access to specialist skills to help improve business-critical IT, and Enhanced Critical Incident Management to help—so the business is not affected if there is a system or device outage.
- **HPE Datacenter Care:** Get the support you need to deploy, operate, and evolve your data center environment to be hybrid-cloud ready with single-point-of-accountability for HPE's and others' products.

Resources

QuickSpecs

hpe.com/h20195/v2/GetPDF.aspx/c04328820.pdf

Buy online

HPE Factory Express

HPE Factory Express provides customization and deployment services along with your storage and server purchases. You can customize hardware to your exact specifications in the factory—helping speed deployment.

hpe.com/h20195/V2/GetPDF.aspx/5982-9810EN.pdf

Customer Technical Training

Gain the skills you need with ExpertOne training and certification from HPE. With HPE Converged Storage training, you can accelerate your technology transition, improve operational performance, and get peak return on your HPE investment. Our training is available when and where you need it, through flexible delivery options and a global training capability.

mylearninghpe.com

Financial Services

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment.

hpe.com/hpefinancialservices

Note: Specific service availability varies by product.

Get connected and get back to business—HPE Storage Technology Services provide the path to get your HPE Storage solutions and your business connected to HPE. Once connected, our experts are able to scan your system and run health checks, then use that data to create personalized reports and recommendations for actions to take to prevent problems and downtime.

Learn more at

hpe.com/storage/StoreOnce



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