



# HPE 3PAR StoreServ File Controller v3

Gateway solution for large-scale file sharing  
with HPE 3PAR StoreServ



## Storage growth means storage challenges

Whether storage management is currently a struggle for your organization or not, it is likely that the distributed and high-growth nature of unstructured, file-based data has brought unwelcome challenges.

If you are looking to reduce costs through consolidating block and file storage, you need a solution that provides effortless efficiency, effective performance, and bulletproof availability, as well as security for both file and block protocols.

## Powerful array; single architecture

The HPE 3PAR StoreServ Storage family is built on a single architecture that brings enterprise data services and quad controller designs to mid-market price points, and delivers massive scalability and advanced features such as storage federation and automated tiering.

HPE 3PAR StoreServ File Controller is a tightly integrated gateway solution for large-scale file sharing that allows you to provision file shares and block volumes from a single user device via native SMI-S capability on HPE 3PAR StoreServ Storage. It leverages HPE 3PAR Thin Technologies to autonomically reclaim unused capacity on the array.

Together, HPE 3PAR StoreServ Storage and the HPE 3PAR StoreServ File Controller provide a simple and consistent experience for centrally managing block and file storage for multiple workloads. HPE 3PAR StoreServ File Controller is supported with HPE 3PAR StoreServ 7000, 8000, 10000, and 20000 models.

## Efficient, bulletproof, and effortless file serving

The new HPE 3PAR StoreServ File Controller delivers file workload capabilities, such as enterprise file sharing, home directory consolidation, and group shares, over ubiquitous Ethernet. HPE 3PAR StoreServ File Controller gives you efficient, bulletproof, and effortless file services that support many concurrent users and multiple workloads. HPE 3PAR StoreServ File Controller reduces your cost of ownership for storage by simplifying management, increasing resource utilization, centralizing growth, and protecting your data.

### Efficiency

- File and block services available from the common addressable group of thin provisioned storage for high-capacity utilization
- A single platform capable of supporting thousands of users concurrently accessing file data
- Autonomic reclamation of capacity for new block or file data as files are deleted by users with fully integrated HPE 3PAR Thin Persistence
- Provides non-intrusive sub file data deduplication with an average 50 to 60 percent space savings for file shares<sup>1</sup>
- Reduce branch office WAN usage by automatically caching frequently accessed corporate data center files with hosted BranchCache
- A single management device for file and block storage

### Bulletproof

- Protects data while at rest with file system encryption and BitLocker Drive Encryption, and SMB encryption and signing while data is being transferred
- Online snapshots enable users to directly recover files and prior file versions
- File classification infrastructure facilitates sophisticated access controls; supports Active Directory Rights Management Services that protects files no matter where they go
- Supports native installation of endpoint protection software (such as antivirus) to reduce the security and cost concerns with connecting an external protection server
- Allows users to confidently deploy large volumes of storage by leveraging file system online self-healing, online verification, and precise as well as rapid repair that massively reduces downtime caused by file corruption

### Effortless

- Turnkey clustered file controller with transparent failover for SMB and NFS provide continuous availability
- End-to-end provisioning for file storage from available HPE 3PAR StoreServ Storage disk capacity to file share creation using a single GUI
- Easy and dynamic reclamation capacity between file and block on HPE 3PAR StoreServ Storage
- Cluster-aware updates enable online maintenance

<sup>1</sup> Introduction to Data Deduplication in Windows Server® 2012, Microsoft® TechNet File Cabinet Blog, May 2012 [blogs.technet.com/b/filecab/archive/2012/05/21/introduction-to-data-deduplication-in-windows-server-2012.aspx](http://blogs.technet.com/b/filecab/archive/2012/05/21/introduction-to-data-deduplication-in-windows-server-2012.aspx)



“Gilbert, Arizona is growing rapidly and we were reaching the end-of-life for our legacy storage equipment. The integrated storage solution from HPE is allowing us to efficiently increase capacity while improving storage performance and implementing a robust and innovative data replication initiative. I like the clustering and higher availability of this solution, and that the HPE 3PAR StoreServ File Controller is a nice, integrated package with HPE 3PAR StoreServ.”

– Chris Majoue, Infrastructure Administrator for Gilbert, Arizona

## Consistent, intuitive interface

HPE 3PAR StoreServ File Controller provides a single device for day-to-day block and file management when used with HPE 3PAR StoreServ Storage, delivering simple and consistent management for:

### Provisioning and deployment

Block and file services for multiple servers connected to HPE 3PAR StoreServ Storage can be managed from a single device. With this solution, you can:

- Provision storage for both file and block
- Deploy storage for file services and application workloads

### Storage efficiency and optimization

Take advantage of greater storage efficiency:

- Centrally manage both file and block storage on an ongoing basis
- Host HPE 3PAR StoreServ Storage management software on the HPE 3PAR StoreServ File Controller to eliminate the need for a separate management console
- React quickly to changing application and infrastructure requirements with HPE 3PAR Dynamic Optimization for autonomic storage tiering, and HPE 3PAR Adaptive Optimization for highly reliable, non-disruptive, cost-optimized storage tiering at the sub-volume level to deliver the right QoS to the right data, at the right time, on a large scale

### Data mobility, data protection, and disaster recovery

HPE 3PAR StoreServ File Controller integrates with key HPE 3PAR StoreServ data mobility, data protection, and disaster recovery features, including:

- HPE 3PAR Peer Motion, which provides online, non-disruptive movement of block level, live data across HPE 3PAR StoreServ systems
- HPE 3PAR Peer Persistence, which allows you to federate your HPE 3PAR StoreServ Storage systems across geographically separate data centers
- HPE 3PAR Remote Copy, which gives your organization multi-site, multi-node, synchronous, thin-aware, long-distance replication; site failover and disaster recovery have never been so easy
- HPE Cluster Extension Software, which provides automatic failover of file and application workloads replicated over metropolitan distances using HPE 3PAR Remote Copy Software
- Full copy capabilities, which let you create point-in-time, thin-aware clones of your data
- Offline data transfer (ODX), which expedites transfer of large files while minimizing resource usage on the server and network

**Table 1:** HPE 3PAR StoreServ File Controller v3



### Efficient, bulletproof, and effortless file services from HPE 3PAR StoreServ Storage

<b>Form factor</b>	2U rack mount with 1 to 2 nodes
<b>Number of users</b>	Up to 29,000 per node
<b>Network controller</b>	(1) 1GbE 2-port standard per node, 10GbE optional
<b>Protocols</b>	SMB (CIFS); NFS; FTP and FTPS; HTTP and HTTPS; WebDAV; iSCSI
<b>Supported disk arrays</b>	HPE 3PAR StoreServ 7000, 8000, 10000, 20000, F-Class, and T-Class Storage
<b>Data services</b>	File Controller-based Enterprise File Sync and Share, Sub File Deduplication, Snapshots, Replication, File Classification, File Screening, Quotas, and Reporting included
<b>Management</b>	HPE 3PAR StoreServ File Controller v3 Dashboard and Server Manager; iLO 4 with Advanced License
<b>Warranty</b>	3-year parts exchange, 3-year labor, 3-year onsite, and 4-hour response for hardware; 1-year 24x7 telephone support for software

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. [hp.com/go/factoryexpress](http://hp.com/go/factoryexpress)

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment. [hp.com/go/hpfinancialservices](http://hp.com/go/hpfinancialservices)

## HPE Technology 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 your storage to meet IT Solutions for the New Style of Business.

**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 that's right for your business.

**Note:** Specific service availability varies by product.

### 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:** 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 and incorporates on Proactive Care and also gives customers personalized technical and operational advice from an assigned local account support manager (ASM) for personalized technical collaboration, flexible access to specialist skills to help optimize 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 and others' products. 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.

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