

HPE 3PAR Security Software Suite

Secure access for your data

Key features and benefits

Secure virtual private arrays with cost-effective, compliant data retention

- Ability to retain the benefits of storage consolidation—including greater resource utilization, reduced administration, centralized backup, and reduced energy and floor space consumption—while increasing security
- Once locked, specified storage volumes and copies cannot be deleted

Improved service levels

- Deliver customized and secure storage by department or application
- Enable secure, consolidated, independent storage services to multiple administrators, applications, and departments

Simplified control for security and retention

- Client-configurable intervals for individual storage volume and copy locking
- Ability to tamperproof data by setting read-only access to volumes and copies

HPE 3PAR StoreServ Storage: Agile tier 1 storage capabilities from midrange to enterprise

As an organization that constantly makes leaps and strides toward growth, you've seen firsthand what it means to maintain a perfect balance between managing large and increasing data volumes, rising business demands, cost efficiency, and sustainable growth. And, while you juggle these multiple facets within your business, you also consider advancements and changes on the outside that can deeply impact what goes on inside your business.

HPE 3PAR StoreServ Storage is an easy-to-deploy, affordable, scalable, and future-proof system designed from the ground up to meet fluctuating, and mixed workload demands. With efficient, autonomic and bulletproof capabilities and unique, multi-node-capable storage architecture, HPE 3PAR StoreServ Storage provides affordable scalability to your data center, meeting your application demands and enabling sustainable growth. HPE 3PAR StoreServ Storage prepares and supports your data center regardless of what your future holds—whether it's server virtualization, an infrastructure refresh, or just simplifying storage to more efficiently handle rapid data growth.

Consolidating and securing your data with bulletproof HPE 3PAR StoreServ Storage

Security and performance concerns no longer stand in your way when it comes to infrastructure consolidation. With the HPE 3PAR Security Software Suite for HPE 3PAR StoreServ Storage—including the HPE 3PAR Virtual Domain software and the HPE 3PAR Virtual Lock software—you get secure access and the ability to provision virtual private array storage software services. At the same time, you get an efficient and cost-effective way to meet compliance standards, such as data retention requirements from internal governance policies or eDiscovery, for example.

The HPE 3PAR Security Software Suite provides up to 1,024 secure virtual private arrays and delivers secure access for separate applications and user groups. This unified security offering provides a secure, consolidated environment that efficiently protects data from intentional or unintentional deletion. It delivers customized and secure storage to multiple administrators, applications, and departments—retaining the benefits of storage consolidation while providing peace of mind that comes with knowing that data cannot be deleted.

Secure segregation of users and hosts with HPE 3PAR Virtual Domains

By providing secure administrative segregation of users and hosts within a consolidated HPE 3PAR StoreServ Storage system, individual user groups and applications can affordably achieve greater storage service levels (performance, availability, and functionality) than previously possible. IT organizations, in turn, can now deliver customized, secure, and even self-service storage to multiple administrators, applications, departments, and customers while retaining the benefits of storage consolidation. The result is a simple, efficient, and scalable approach to delivering secure segregation within a consolidated platform.

The HPE 3PAR Virtual Domains software decreases the concern that disparate user groups, departments, and customers cannot share storage resources because of potential risks related to privacy, control, administrative error, and even compliance. Unlike the use of multiple storage systems or traditional array partitioning schemes that rely on the physical segregation of resources, HPE 3PAR Virtual Domains uses a policy-based, logical implementation that preserves the benefits of distributing and sharing each application workload across all system resources (ports, processors, cache, loops, and disk drives). Virtual Domains is ideal for those who

understand the benefits of consolidation but must enable secure, independent storage services to multiple administrators, applications, departments, and customers.

Virtual Domains works by enabling administrators to define multiple autonomous, secure, and policy-based virtual systems within a single, massively scalable storage system. Since users (or groups) have access to only those virtual domains to which they have been granted access, they can independently and confidently administer and monitor the system without concern for the actions or visibility of other users. Deliberate or inadvertent deletions or presentations of volumes from separate domains are blocked, thereby protecting all users against unauthorized access, monitoring, or control.

HPE 3PAR Virtual Domains is a completely virtual solution that requires no physical reservation of resources. To use Virtual Domains, a master administrator first creates a virtual domain and then assigns logically defined entities to it. These entities can include one or more host definitions based on Worldwide Name (WWN) groupings, one or more provisioning policies (RAID and disk type), or one or more system administrators (who are also granted role-based privileges by the master administrator). Depending on the level of access, users can create, export, and copy standard volumes or thin-provisioned volumes.

Protect your data from deletion with HPE 3PAR Virtual Lock

The HPE 3PAR Virtual Lock software enables organizations to securely lock down storage volumes, allowing read access but preventing accidental or intentional deletion. When used in conjunction with reservationless, non-duplicative snapshots, Virtual Lock delivers an efficient approach to governance and legal discovery.

Data retention is a fact of doing business in the information age. No matter why your organization must retain data, this inevitable stage in the data lifecycle can lead to unnecessary cost and complexity when not handled properly. HPE 3PAR Virtual Lock enables you to meet data retention requirements, simply and efficiently. Virtual Lock does this by preventing deletion of locked virtual volumes (including thin volumes created with HPE 3PAR Thin Provisioning) and virtual volume copies for a specified retention period. During this configurable Virtual Lock retention period, volumes and copies can be read but are protected against deletion, even by an HPE 3PAR StoreServ system user with the highest level privileges.

Software Suites for HPE 3PAR StoreServ Storage

HPE 3PAR Operating System Software Suite	<p>Required for all new HPE 3PAR StoreServ systems, this foundational software suite gives you everything you need to get up and running quickly and efficiently. Powered by the HPE 3PAR Gen5 ASIC, HPE 3PAR Thin Technologies including HPE 3PAR Thin Provisioning, HPE 3PAR Thin Persistence, HPE 3PAR Thin Conversion and HPE 3PAR Thin Deduplication form the base of this software suite. Performance acceleration is assured by HPE 3PAR Adaptive Flash Cache, which reduce application response times.</p> <p>Network simplification and security are covered with iSCSI VLAN tagging. Simplified management is offered by the HPE 3PAR StoreServ Management Console and HPE 3PAR Host Explorer software, which is designed to get you off to a quick start with your new HPE 3PAR StoreServ system. HPE 3PAR System Reporter and HPE 3PAR Info software are designed to track performance and capacity utilization trends for multiple HPE 3PAR StoreServ systems. Other highlights of this suite include HPE 3PAR Full Copy software and Autonomic rebalancing capabilities that help optimize the use of future capacity expansions and support for standard multipathing software for high availability in clustered environment. A one-year license for HPE 3PAR Online Import is included to enable migration from HPE EVA, EMC Storage¹ and HDS Storage² systems.</p>
HPE 3PAR Replication Software	<p>This suite bundles HPE 3PAR Virtual Copy with the HPE 3PAR Remote Copy software, both also sold separately for all HPE 3PAR StoreServ models. HPE 3PAR Virtual Copy software protects and shares data affordably with rapid recovery using reservation less, non-duplicative, copy-on-write snapshots. HPE 3PAR Remote Copy offers simple and cost effective data protection for efficient multitenant disaster recovery.</p> <p>Also included in this bundle is HPE 3PAR Peer Persistence, which ensures transparent automatic failover over metropolitan distances using Remote Copy Synchronous mode. For HPE 3PAR StoreServ 20000 and 8000 systems, this Suite also includes HPE 3PAR Cluster Extension software, which enables automatic failover across data centers using Remote Copy Asynchronous mode.</p>
HPE 3PAR Data Optimization Software Suite	<p>This software bundle combines HPE 3PAR Dynamic Optimization, HPE 3PAR Adaptive Optimization, HPE 3PAR Priority Optimization and HPE 3PAR Peer Motion software together. HPE 3PAR Dynamic Optimization delivers the required service levels for the lowest possible cost throughout the data lifecycle. HPE 3PAR Adaptive Optimization improves storage utilization by enabling cost-optimized storage tiering. HPE 3PAR Priority Optimization assures service levels with QoS controls for mission critical applications. HPE 3PAR Peer Motion enables load balancing at will, wherein movement of data and workloads between arrays does not impact applications, users, or services. These four software titles bundled in this suite are also sold separately for all HPE 3PAR StoreServ models. Depending on purchase date, titles included in this suite may vary. Check the HPE 3PAR Software Quickspecs for complete details.</p>
HPE 3PAR File Persona Software Suite	<p>This software suite enables a rich set of file protocols and an Object Access API (REST) to extend the spectrum of primary storage workloads natively addressed by HPE 3PAR StoreServ Storage Systems with Converged Controllers. With this solution, the architectural benefits of HPE 3PAR StoreServ Storage can be extended enterprise file sync and share; home directory consolidation; group/corporate shares; and custom cloud applications.</p>
HPE 3PAR Security Software Suite	<p>This software suite bundles HPE 3PAR Virtual Domains and HPE 3PAR Virtual Lock software. With this suite, you can segregate access and deliver robust storage services for different applications and user groups with additional security attached to the retention of storage volumes.</p>
HPE 3PAR Application Software Suite for Hyper-V	<p>Protect your Microsoft® Hyper-V environment with HPE 3PAR Recovery Manager for Microsoft Hyper-V and the HPE 3PAR VSS Provider software, included in this software bundle.</p>
HPE 3PAR Application Software Suite for Exchange	<p>This bundle gives you the essentials for use with Microsoft Exchange, including HPE 3PAR Recovery Manager for Exchange and the VSS Provider software.</p>
HPE 3PAR Application Software Suite for Oracle	<p>Everything you need for protecting Oracle Databases, including HPE 3PAR Recovery Manager for Oracle and Oracle space reclamation capabilities.</p>
HPE 3PAR Application Software Suite for SQL	<p>Protect Microsoft SQL databases with HPE 3PAR Recovery Manager for Microsoft SQL and the HPE 3PAR VSS Provider software.</p>
HPE StoreOnce Recovery Manager Central	<p>By combining the performance of snapshots with the protection of backups, this software integrates HPE 3PAR StoreServ with HPE StoreOnce Backup to provide a converged availability and flat backup service that augments traditional backup processes. With this automated, non-intrusive performance of local and remote snapshots can be combined with the reliability and cost-effective retention of deduplicated backups.</p>

¹ HPE 3PAR Online Import support for EMC Storage extends to EMC VMAX, EMC VNX, and EMC CLARiiON CX4 Storage systems.

² HPE 3PAR Online Import support for Hitachi Storage systems extends to Hitachi Data Systems (HDS), TagmaStore Network Storage Controller (NSC), Universal Storage Platforms (USP), and Virtual Storage Platforms (VSP) Storage systems.

Optimize your IT investment strategy with new ways to acquire, pay for and use technology, in lock-step with your business and transformation goals.

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HPE Technology Services for HPE 3PAR StoreServ Storage

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 Business.

Advise, transform and integrate

Navigate through the intricacies 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.

Note: Specific service availability varies by product.

- **HPE Foundation Care**—System-level IT hardware and software support delivers a flexible coverage window and response time for 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 Hewlett Packard Enterprise to help prevent problems and reduce downtime.

- **HPE Proactive Care Advanced**—

Incorporates and builds on Proactive Care to give customers personalized technical and operational advice from an assigned, local Account Support Manager for personalized technical collaboration, flexible access to specialist skills to help optimize business critical IT and enhanced Critical Incident Management, 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-connectivity for HPE and others' products.

Get connected and get back to business—HPE Storage Technology Services provide the path to getting 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.

For more information, visit hpe.com/services/storage.

Learn more at hpe.com/go/3parstoreserv



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