Hewlett Packard Enterprise

HPE 3PAR Application Suite for Microsoft Exchange

Bulletproof your Microsoft Exchange environments

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 enables 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.

Bulletproofing your Microsoft Exchange environment with HPE 3PAR StoreServ Storage

With HPE 3PAR Virtual Copy software and the HPE 3PAR Application Suite for Microsoft® Exchange, you can use HPE 3PAR StoreServ Storage to intelligently create, manage, and present time-consistent snapshot images of Microsoft Exchange for rapid application recovery, near-continuous data protection, data sharing, and nondisruptive backup and recovery.

With email mission-critical to many businesses and the volume of email data increasing exponentially, the need for efficient data protection is a critical requirement. Traditional approaches to Microsoft Exchange data protection, paired with the increased complexity associated with this explosive data growth, can cause administrative costs to spiral out of control or visibly affect service levels. Recovery from tape can also be time consuming and require inordinate complexity when a user only needs to recover a single mailbox or message. Disk-based backup and recovery can speed operations, but can also be expensive with full-disk copy technologies. In addition, due to limitations on the number of snapshots that can be created, disk-based backup often doesn't provide the granularity that is desired, especially when many or frequent points of recovery are needed. IT is forced to choose between performing fewer backups and limiting the size of its Exchange instances.

A better way to manage Exchange database backup and recovery

The HPE 3PAR Application Suite for Microsoft Exchange addresses the challenges of managing backup and recovery of complex, 24x7 Microsoft Exchange databases with an optional bundle that gives you the essentials for rapid backup and recovery. This suite includes HPE 3PAR Recovery Manager for Exchange software and the HPE 3PAR Volume Shadow Copy Service (VSS) Provider software.

HPE 3PAR Recovery Manager software for Exchange

HPE 3PAR Recovery Manager software for Exchange helps you intelligently create and manage highly granular and capacity-efficient Exchange-aware snapshots for rapid, efficient online backup and recovery of entire Microsoft Exchange databases or individual emails. This software suite enhances the functionality of HPE 3PAR Virtual Copy software—a reservation-less, nonduplicative, copy-on-write snapshot utility—to allow dozens of Exchange snapshots to be kept online economically, allowing for extended or frequent recovery points. With effortless management, you can quickly restore Exchange instances or databases for near-continuous data protection or nondisruptively backup to tape.

VSS Provider software
HPE 3PAR Recovery Manager software for Microsoft Exchange simplifies the management and use of HPE 3PAR Virtual Copy software snapshots by integrating with Microsoft Exchange Server through VSS Provider software. This management tool provides you with a standardized interface for creating online, application-consistent, point-in-time copies of a single or multiple volumes in Microsoft Windows Server® environments.

The powerful combination of the Microsoft Exchange Software Suite, HPE 3PAR Virtual Copy software, and Microsoft VSS delivers an integrated, online, and nondisruptive backup and recovery system that further simplifies data management for Microsoft Exchange environments. The HPE 3PAR VSS Provider software temporarily freezes tasks to allow for the creation of and removal of snapshots that reflect the state of application data at a given point in time. When the process resumes, the original volume continues to change while the shadow copy of the volume remains constant.

HPE 3PAR Remote Copy software integration

The ability to replicate data to remote locations in the most efficient and cost-effective way possible is a must, whether for data migration, distribution, or protection. By utilizing the asynchronous mode available with HPE 3PAR Remote Copy software, users can safely perform data replication to a secondary site and help ensure that the data is application consistent for recovery purposes.

The HPE 3PAR Software Suite for Exchange integrates with asynchronous periodic mode in HPE 3PAR Remote Copy software to deliver a disaster recovery solution that enables data integrity and application-consistent snapshots on the remote site. More specifically, when a user wants to sync up the data from a production site to a secondary site, HPE 3PAR Recovery Manager software for Exchange will leverage the VSS framework to freeze the I/O on the application level, and then ask the VSS provider to take a snapshot of the specified database and log volumes. Once the snapshot is taken, HPE 3PAR Recovery Manager software invokes HPE 3PAR Remote Copy software to perform synchronization with the target volumes at the secondary site. After the synchronization, the target server connected to the HPE 3PAR StoreServ Storage system at the secondary site creates a virtual copy on the remote copy target volumes and saves the information in its repository, providing an application-consistent recovery point on the secondary site.

Key features and benefits
- Create hundreds of Exchange-aware snapshots
- Cut snapshot capacity in half with thin technologies
- Recover rapidly from any point in time
- Restore an entire database or a single email
- Simplify data management in Exchange environments

Software suites for HPE 3PAR StoreServ Storage

HPE 3PAR Operating System Software Suite	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. This suite includes HPE 3PAR Operating System, HPE 3PAR Management Console, HPE 3PAR Host Explorer, and HPE SmartStart*—software designed to get you off to a quick start with your new HPE 3PAR StoreServ system. It also includes all of the platform's thin software offerings—HPE 3PAR Thin Provisioning, HPE 3PAR Thin Conversion, and HPE 3PAR Thin Persistence. Other highlights of this suite include HPE 3PAR Full Copy, autonomic rebalancing capabilities that help you optimize the use of future capacity expansions, and support for standard multipathing software for high availability in clustered environments. A 180-day license for online import is included to enable migration from HPE EVA Storage.
HPE 3PAR Replication Software Suite	This optional suite bundles HPE 3PAR Virtual Copy with the HPE 3PAR Remote Copy software, both also sold separately for all HPE 3PAR StoreServ models. Included in this bundle is HPE 3PAR Peer Persistence, which enables peer federation for VMware® clusters to improve overall availability. Licensed based on system capacity.
HPE 3PAR Data Optimization Software Suite	This optional software bundle combines HPE 3PAR Dynamic Optimization, HPE 3PAR Adaptive Optimization, HPE 3PAR Peer Motion, and HPE 3PAR Priority Optimization software, so you can move data and workloads between arrays without impacting applications, users, or services. Licensed based on system capacity, the 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. For the 10000 models only, HPE 3PAR Optimization Suite is available and includes Adaptive Optimization and Dynamic Optimization.
HPE 3PAR Security Software Suite	This optional suite bundles HPE 3PAR Virtual Domains and HPE 3PAR Virtual Lock software, both also sold separately for all HPE 3PAR StoreServ models. 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. Licensed based on system capacity.
HPE 3PAR Application Software Suite for VMware	Everything you need to make your VMware environment more agile and efficient—including HPE 3PAR Recovery Manager for VMware, Host Explorer for VMware, VMware vSphere® APIs for Storage Awareness (VASA) support, and three essential plug-ins: the VMware Site Replication Manager (SRM) Adapter, the HPE 3PAR VAAI Plug-in, and the HPE 3PAR Management Plug-in for VMware View®. This suite is optional and licensed on a per-system basis.
HPE 3PAR Application Software Suite for Hyper-V	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 optional suite and licensed on a per-system basis.
HPE 3PAR Application Software Suite for Exchange	This bundle gives you the essentials for use with Microsoft Exchange, including HPE 3PAR Recovery Manager for Exchange and the VSS Provider software. This suite is optional and licensed on a per-system basis.
HPE 3PAR Application Software Suite for Oracle	Everything you need for protecting Oracle Databases, including HPE 3PAR Recovery Manager for Oracle and Oracle space reclamation capabilities, sold as an optional suite and licensed on a per-system basis.
HPE 3PAR Application Software Suite for SQL	Protect Microsoft SQL databases with HPE 3PAR Recovery Manager for Microsoft SQL and the HPE 3PAR VSS Provider software, bundled with this optional suite and licensed on a per-system basis.
HPE 3PAR Reporting Software Suite	Enhance system visibility and reporting capabilities with this optional suite, which includes the HPE 3PAR System Reporter software and the HPE 3PARInfo application, licensed on a per-system basis.

* SmartStart is available for the 7200, 7400, and 7450 models only.

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. Visit **hp.com/go/factoryexpress**.

Customer technical training

Gain the skills you need with ExpertOne training and certification from Hewlett Packard Enterprise. With HPE Converged Storage training, you will accelerate your technology transition, improve operational performance, and get the best return on your HPE investment. Our training is available when and where you need it, through flexible delivery options and a global training capability. **hp.com/learn/storage**

HPE Technology Services

Choose from a rich portfolio of services to make the most of HPE Storage, so you can move with confidence to take full advantage of the broadest, most advanced portfolio in the industry.

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

Take five minutes to calculate the potential three-year cost savings and ROI you can expect by migrating from your current storage to an HPE 3PAR StoreServ solution. **Click here** to go to the HPE Storage Quick ROI Tool.

Discover, plan, and design—understand your options and build it right from day one:

• HPE Backup Recovery Efficiency Analysis

• HPE Backup Recovery Impact Analysis

• HPE Backup Recovery Modernization

• HPE Storage Cloud Design Service

Deploy and integrate—increase uptime and decrease risk as you free up your resources:

• HPE 3PAR StoreServ Storage Installation and Startup Service

• HPE 3PAR Software Installation and Startup Service

• HPE EVA to HPE 3PAR StoreServ Acceleration Service

• HPE Data Replication Solution Service

• HPE Enhanced Implementation Service for SANs

• HPE 3PAR Adaptive Optimization Policy Implementation Service

• HPE Storage Virtual Volume Design and Implementation Service

• HPE Thin Volume Conversion Service

• HPE 3PAR StoreServ Health Check

• HPE Performance Analysis Service

• HPE 3PAR Rebalance Service

• HPE 3PAR Storage Assessment Service

• HPE Proactive Select

Operate and support—meet service level agreements (SLAs) with the right support level. Choose from three levels of operate and support care:

• Optimized Care—delivers the highest levels of performance and stability through deployment and proactive management practices
HPE Critical Service
Additional options: 10 HPE Proactive Select credits per year, per array

• Standard Care—maintains a high level of uptime, along with expert help to cut the cost and complexity of implementation and support
HPE Proactive Care 24x7—plus, 20 credits per year, per array
Additional options: HPE Proactive Care Personalized Support (once per each new Proactive Care support environment), HPE Personalized Support Additional Day, and an additional 10 HPE Proactive Select credits per year, per array

• Basic Care—minimum recommended support
Proactive Care 24x7—plus, 10 credits per year, per array
Additional options: 10 Proactive Select credits per year, per array

If none of our support recommendations meet your needs, we can tailor a service solution for your unique support requirements. Only Hewlett Packard Enterprise brings together deep expertise, proactive and business-critical support, and a strong partner network—plus, a full set of infrastructure services designed to power a converged infrastructure.

For more information, visit **hp.com/services/storage**.

Learn more at
hpe.com/us/en/storage/3par.html

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