

Overview

HP 3PAR Software offerings include both the operating system and additional software products that run on the HP 3PAR Storage System and on Microsoft Windows®, Linux, or UNIX® hosts.

HP 3PAR Operating System Software

The HP 3PAR Operating System Software (HP 3PAR OS) comes installed on the HP 3PAR Storage System. The HP 3PAR OS includes a collection of advanced internal virtualization capabilities to increase storage efficiency and reduce administration time.

Additional HP 3PAR Software

Additional HP 3PAR Software Additional software products available for HP 3PAR Storage Systems offer enhanced capabilities including thin storage technologies, secure partitioning for virtual private arrays, and virtual and remote copy capabilities.

HP 3PAR Host Software

Host-based software products from HP 3PAR enable the next-generation HP 3PAR platform to address the needs of specific application environments, multipathing, and historical performance and capacity management.

HP 3PAR StoreServ Software Suites

HP 3PAR StoreServ 7000, 7450 and 10000 Storage also provide the opportunity to purchase software bundled into a series of suites designed to be affordable and simple to purchase. Select software titles can also be purchased separately, as indicated below.

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Operating System Software (also available as HP 3PAR Operating System Suite on HP 3PAR StoreServ 7000 and 10000 Storage)

Overview

The software foundation of 3PAR® Utility Storage is the HP 3PAR Operating System, which utilizes advanced internal virtualization capabilities to increase administrative efficiency, system utilization, and storage performance.

The HP 3PAR OS includes the following functionality and features:

- HP 3PAR Persistent Ports
- HP 3PAR Web Services API
- HP 3PAR OS Administration Tools
- HP 3PAR Rapid Provisioning
- HP 3PAR Autonomic Groups
- HP 3PAR Scheduler
- HP 3PAR Persistent Cache
- HP 3PAR RAID MP (Multi-Parity)
- HP 3PAR Full Copy
- HP 3PAR Access Guard
- HP 3PAR Thin Copy Reclamation
- HP 3PAR LDAP Support

Models

HP 3PAR InForm F200/4x146GB 15K Magazine LTU	TE166B*
HP 3PAR InForm F200/4x1TB NL Magazine LTU	TE172B*
HP 3PAR InForm F200/4x300GB 15K Magazine LTU	TE168B*
HP 3PAR InForm F200/4x400GB 10K Magazine LTU	TE170B*
HP 3PAR InForm F200/4x450GB 15K Magazine LTU	TE224B*
HP 3PAR InForm F200/4x50GB SSD Magazine LTU	TE281B*
HP 3PAR InForm F200/4x600GB 15K Magazine LTU	TE309B*
HP 3PAR InForm F200/4x2TB NL Magazine LTU	TE368B*
HP 3PAR InForm F200/4x100GB SSD Magazine LTU	TE751B*
HP 3PAR InForm F200/4x200GB SSD Magazine LTU	TE779B*
HP 3PAR InForm F200/4x300GB SAS LTU	BC523A*
HP 3PAR InForm F200/4x450GB SAS LTU	BC524A*
HP 3PAR InForm F200/4x900GB SAS LTU	BC525A*
HP 3PAR InForm F200/4x2TB SAS LTU	BC526A*
HP 3PAR InForm F400/4x146GB 15K Magazine LTU	TE167B*
HP 3PAR InForm F400/4x1TB NL Magazine LTU	TE173B*
HP 3PAR InForm F400/4x300GB 15K Magazine LTU	TE169B*
HP 3PAR InForm F400/4x400GB 10K Magazine LTU	TE171B*
HP 3PAR InForm F400/4x450GB 15K Magazine LTU	TE225B*
HP 3PAR InForm F400/4x50GB SSD Magazine LTU	TE282B*
HP 3PAR InForm F400/4x600GB 15K Magazine LTU	TE310B*
HP 3PAR InForm F400/4x2TB NL Magazine LTU	TE369B*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR InForm F400/4x100GB SSD Magazine LTU	TE752B*
HP 3PAR InForm F400/4x200GB SSD Magazine LTU	TE780B*
HP 3PAR InForm F400/4x300GB SAS LTU	BC527A*
HP 3PAR InForm F400/4x450GB SAS LTU	BC528A*
HP 3PAR InForm F400/4x900GB SAS LTU	BC529A*
HP 3PAR InForm F400/4x2TB SAS LTU	BC530A*
HP 3PAR InForm T400/4x146GB 15K Magazine LTU	TE118B*
HP 3PAR InForm T400/4x1TB NL Magazine LTU	TE154B*
HP 3PAR InForm T400/4x300GB 15K Magazine LTU	TE142B*
HP 3PAR InForm T400/4x400GB 10K Magazine LTU	TE130B*
HP 3PAR InForm T400/4x450GB 15K Magazine LTU	TE226B*
HP 3PAR InForm T400/4x50GB SSD Magazine LTU	TE283B*
HP 3PAR InForm T400/4x600GB 15K Magazine LTU	TE311B*
HP 3PAR InForm T400/4x750GB NL Magazine LTU	TE106B*
HP 3PAR InForm T400/4x2TB NL Magazine LTU	TE370B*
HP 3PAR InForm T400/4x100GB SSD Magazine LTU	TE753B*
HP 3PAR InForm T400/4x200GB SSD Magazine LTU	TE781B*
HP 3PAR InForm T400/4x300GB SAS LTU	BC531A*
HP 3PAR InForm T400/4x450GB SAS LTU	BC532A*
HP 3PAR InForm T400/4x900GB SAS LTU	BC533A*
HP 3PAR InForm T400/4x2TB SAS LTU	BC534A*
HP 3PAR InForm T800/4x146GB 15K Magazine LTU	TE119B*
HP 3PAR InForm T800/4x1TB NL Magazine LTU	TE155B*
HP 3PAR InForm T800/4x300GB 15K Magazine LTU	TE143B*
HP 3PAR InForm T800/4x400GB 10K Magazine LTU	TE131B*
HP 3PAR InForm T800/4x450GB 15K Magazine LTU	TE227B*
HP 3PAR InForm T800/4x50GB SSD Magazine LTU	TE284B*
HP 3PAR InForm T800/4x600GB 15K Magazine LTU	TE312B*
HP 3PAR InForm T800/4x750GB NL Magazine LTU	TE107B*
HP 3PAR InForm T800/4x2TB NL Magazine LTU	TE371B*
HP 3PAR InForm T800/4x100GB SSD Magazine LTU	TE754B*
HP 3PAR InForm T800/4x200GB SSD Magazine LTU	TE782B*
HP 3PAR InForm T800/4x300GB SAS LTU	BC535A*
HP 3PAR InForm T800/4x450GB SAS LTU	BC536A*
HP 3PAR InForm T800/4x900GB SAS LTU	BC537A*
HP 3PAR InForm T800/4x2TB SAS LTU	BC538A*
HP 3PAR InForm V400/4x100GB SSD Magazine LTU	TE835A*
HP 3PAR InForm V400/4x200GB SSD Magazine LTU	TE836A*
HP 3PAR InForm V400/4x2TB 7.2K Magazine LTU	TE837A*
HP 3PAR InForm V400/4x300GB 15K Magazine LTU	TE838A*
HP 3PAR InForm V400/4x600GB 15K Magazine LTU	TE839A*



Product Specifications - HP 3PAR OS Host Software

HP 3PAR InForm V400/4x300GB SAS LTU	BC539A*
HP 3PAR InForm V400/4x450GB SAS LTU	BC540A*
HP 3PAR InForm V400/4x900GB SAS LTU	BC541A*
HP 3PAR InForm V400/4x2TB SAS LTU	BC542A*
HP 3PAR InForm V800/4x100GB SSD Magazine LTU	TE840A*
HP 3PAR InForm V800/4x200GB SSD Magazine LTU	TE841A*
HP 3PAR InForm V800/4x2TB 7.2K Magazine LTU	TE842A*
HP 3PAR InForm V800/4x300GB 15K Magazine LTU	TE843A*
HP 3PAR InForm V800/4x600GB 15K Magazine LTU	TE844A*
HP 3PAR InForm V800/4x300GB SAS LTU	BC543A*
HP 3PAR InForm V800/4x450GB SAS LTU	BC544A*
HP 3PAR InForm V800/4x900GB SAS LTU	BC545A*
HP 3PAR InForm V800/4x2TB SAS LTU	BC546A*
HP 3PAR OS 10400/4x400GB SSD LTU	BC959A*
HP 3PAR OS 10800/4x400GB SSD LTU	BC970A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

NOTE: Physical software licenses for T-Class are available only in China. All other regions are expected to order E-delivery licenses only

Product Highlights

HP 3PAR Access Guard

Access Guard is an HP 3PAR OS feature that delivers user-configurable volume security at logical and physical levels by enabling you to secure hosts and ports to specific virtual volumes.

HP 3PAR Autonomic Groups

HP 3PAR Autonomic Groups is an HP 3PAR OS software feature that brings a new provisioning paradigm to clustered and virtual server environments by building on the same innovation featured by HP 3PAR Rapid Provisioning.

Autonomic Groups is designed to reduce room for human error by eliminating manual repetition of tedious commands, thereby making the provisioning process more reliable. This software feature also simplifies reporting by enabling users to pull boot and data disk utilization statistics from different clusters with just a single command.

In addition, when used together with HP 3PAR Virtual Domains, Autonomic Groups allows multiple independent virtual domains to be grouped as a single logical entity to simplify storage administration while maintaining the integrity of individual virtual domains. For example, backing up an autonomic domain group actually backs up all virtual domains in the group to a single backup server while still maintaining the security and isolation associated with each individual domain.

HP 3PAR Full Copy

Full Copy is an HP 3PAR OS feature that allows you to create point-in-time clones with independent service level parameters. Full Copy offers online operations so that the destination clone can be immediately exported, rapid resynchronizations and thin provisioning-awareness.

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Persistent Ports

HP 3PAR Persistent Ports is a Tier 1 resiliency feature that allows for non-disruptive online software upgrades on HP 3PAR StoreServ Storage systems without relying on multipathing software. This feature, available on all HP 3PAR StoreServ models, brings increased Tier 1 resiliency, across the StoreServ product line including the midrange platform by ensuring that host paths remain online throughout the software upgrade process. The use of standard NPIV (N_Port ID Virtualization) technology as defined by the Technical Committee T11 in the Fibre Channel -Link Services (FC-LS) specification enables a single host-facing StoreServ port to assume the identity of additional pre-designated partner ports, thus enabling transparent switchover of host path connections. Persistent Port Technology is also designed to work with iSCSI and FcoE connectivity.

Starting from HP 3PAR OS 3.1.3 Persistent Ports also autonomically fails over a front-end controller node port that experiences physical connection loss from a cable pull or a failed switch; this unique capability, for now is available for FC connectivity only.

HP 3PAR Autonomic Rebalance

HP 3PAR Autonomic Rebalance provides the ability to analyze how volumes on the HP 3PAR Storage System are using physical disk space and makes intelligent, autonomic adjustments to ensure optimal volume distribution when new hardware is added to the system. The best practice is to run the Autonomic Rebalance (Also known as tunesys) after new hardware is added to the system.

HP 3PAR Web Services API

HP 3PAR Web Services API delivers a programming interface for implementing durable automation of storage management tasks with HP 3PAR StoreServ Storage systems. Web Services API provides a well-defined application programming interface that customers can use for incorporating the storage infrastructure into their platform for end-to-end automation of their service delivery and management. The Web Services API implementation is based on RESTful Web API service using HTTPS, principles of REST, and data structures represented with JSON (JavaScript Object Notation). The server recognizes HTTP versions 1.0 and 1.1.

HP 3PAR OS Administration Tools

The HP 3PAR Operating System offers industry-leading ease of use through a simple, unified InForm Management Console and an extremely powerful, scriptable InForm Command Line Interface (CLI). Manage your entire utility storage deployment from a single window, including remote replication to disaster recovery sites. The latest version of the InForm Management Console is fully integrated with signature HP 3PAR applications such as HP 3PAR Thin Provisioning, Virtual Copy, Dynamic Optimization, Virtual Domains, and Remote Copy-so everything you need to optimize your storage environment is right at your fingertips. The 3PAR Remote CLI gives you powerful customization capabilities that are simple to configure, eliminating the need for extra tools and consulting. Open administration support is provided via SNMP and the Storage Management Initiative Specification (SMI-S).

HP 3PAR LDAP

Support Native support for lightweight directory access protocol (LDAP) within the HP 3PAR OS delivers centralized user authentication and authorization using a standard protocol for managing access to IT resources. With support for LDAP, you can now integrate HP 3PAR Utility StoreServ Storage with standard, open enterprise directory services. The result is simplified security administration with centralized access

Product Specifications - HP 3PAR OS Host Software

control and identity management.

HP 3PAR Persistent Cache

HP 3PAR Persistent Cache is a resiliency feature built into the HP 3PAR OS that allows "always on" application and virtual server environments to gracefully handle an unplanned controller failure. Persistent Cache eliminates the substantial performance penalties associated with traditional arrays and "write-through" mode so that 3PAR StoreServ Storage Servers can maintain required service levels even in the event of a cache or controller node failure. HP 3PAR Persistent Cache leverages the clustered HP 3PAR Architecture with its unique Mesh-Active design to preserve write-caching by rapidly re-mirroring cache to the other nodes in the cluster in the event of a failure. Persistent Cache is supported on all quad-node and larger HP 3PAR arrays, including StoreServ 7400 and the InServ F400-making 3PAR HP the only vendor to incorporate this industry-leading service level protection capability into midrange as well as high-end arrays.

HP 3PAR RAID MP (Multi-Parity)

HP 3PAR RAID MP (Multi-Parity) introduces Fast RAID 6 technology backed by the accelerated performance and Rapid RAID Rebuild capabilities of the 3PAR ASIC. 3PAR RAID MP is supported on all InServ StoreServ models and delivers extra RAID protection that prevents data loss as a result of double disk failures. RAID MP delivers this enhanced protection while maintaining performance levels within 15% of RAID 10 and with capacity overheads comparable to popular RAID 5 modes. For this reason, 3PAR RAID MP is ideal for large disk drive configurations—for example, Serial ATA (SATA) drives above 1 TB in capacity.

HP 3PAR Rapid Provisioning

The HP 3PAR OS eliminates array planning by delivering instant, application-tailored provisioning through the fine-grained virtualization of lower-level components. Provisioning is managed intelligently and autonomically. Massively parallel and fine-grained striping of data across internal resources assures high and predictable service levels for all workload types. Service conditions remain high and predictable as the use of the system grows or in the event of a component failure while traditional storage planning, change management, and array-specific professional services are eliminated.

HP 3PAR Scheduler

HP 3PAR Scheduler also helps automate storage management, reduce administration time, and decrease the chance of administrative error. Scheduler does this by giving users full control over creation and deletion of virtual copy snapshots—a process that is now completely automated with HP 3PAR Utility StoreServ Storage. When used in conjunction with Autonomic Groups, HP 3PAR Scheduler automates virtual copy snapshots across multiple boot and data volumes with full write consistency across all these different volumes.

HP 3PAR Thin Copy Reclamation

An industry first, Thin Copy Reclamation keeps your storage as lean and efficient as possible by reclaiming unused space resulting from deleted virtual copy snapshots and remote copy volumes. Thin Copy Reclamation is built on a virtualization mapping engine for space reclamation called HP 3PAR Thin Engine, which is included as part of the HP 3PAR OS.

Product Specifications - HP 3PAR OS Host Software

Additional 3PAR Software

HP 3PAR OS Additional Software includes the following:

- Thin Provisioning *
- Thin Conversion *
- Thin Persistence *
- Virtual Copy
- Remote Copy
- Peer Persistence
- Adaptive Optimization
- Dynamic Optimization
- Priority Optimization
- System Tuner
- Virtual Domains
- Virtual Lock
- Peer Motion
- Online Import

*These titles are available as part of the HP 3PAR OS Suite on HP 3PAR StoreServ 7000 and 10000 Storage

HP 3PAR Thin Suite

Overview

HP 3PAR Thin Suite is the most comprehensive thin software suite available. With the Thin Suite, virtual and cloud data centers can:

- **Start Thin:** HP 3PAR Thin Provisioning is the most comprehensive thin provisioning software solution available. Since its introduction in 2002, 3PAR Thin Provisioning has become widely considered the gold standard in thin provisioning. It leverages HP 3PAR's dedicate-on-write capabilities to make organizations more efficient and more green, allowing them to purchase only the disk capacity they actually need and only as they actually need it.
- **Get Thin:** With HP 3PAR Thin Conversion, a technology refresh no longer requires a terabyte-for-terabyte replacement, but instead offers the opportunity to eliminate up to 75% of your legacy capacity, simply and rapidly. This savings alone can save up to 60% on the cost of a technology refresh. HP 3PAR Thin Conversion software makes this possible by leveraging the zero-detection capabilities within the HP 3PAR ASIC and Thin Engine - HP 3PAR's unique virtualization mapping engine for space reclamation - to power the simple and rapid conversion of inefficient, "fat" volumes on legacy arrays to more efficient, higher-utilization "thin" volumes on any HP 3PAR Storage System featuring Thin Built In™.
- **Stay Thin:** With 3PAR Thin Persistence, customers can now leverage next-generation space reclamation technology to minimize storage TCO and maintain environmental responsibility targets they have worked so hard to achieve.

The Thin Suite includes the following software:

- Thin Provisioning
- Thin Conversion
- Thin Persistence

The Thin Suite is offered on all HP 3PAR Storage Systems.

Product Specifications - HP 3PAR OS Host Software

Models	HP 3PAR Thin Software Suite 1TB LTU NOTE: Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.	TE923A
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HP 3PAR Thin Provisioning Software

Overview **Start Thin.** HP 3PAR Thin Provisioning is the most comprehensive thin provisioning software solution available. Since its introduction in 2002, HP 3PAR Thin Provisioning has become widely considered the gold standard in thin provisioning. It leverages HP 3PAR's dedicate-on-write capabilities to make organizations more efficient and more green, allowing them to purchase only the disk capacity they actually need and only as they actually need it.

With Thin Provisioning, there is no more up-front capacity allocation. No more dedicating resources for each application. No more paying to house, power, and cool disks that might not be needed for months or years to come, or may never be needed at all.

Models	HP 3PAR Thin Provisioning 1TB LTU NOTE: Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.	TE082B
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- Product Highlights**
- HP 3PAR Thin Provisioning is completely automated
 - HP 3PAR uses a reservationless, dedicate-on-write approach to thin provisioning that draws and configures capacity in fine-grained increments from a single free space reservoir without pre-dedication of any kind.
 - HP 3PAR Thin Provisioning uses an allocation unit size of just 16 KB, so you don't have to worry about small writes consuming megabytes or even gigabytes of capacity.
 - HP 3PAR is the only vendor to feature the clustered HP 3PAR Architecture, which uniquely supports thin provisioning by providing massive scalability within a single system so additional capacity can be easily added to fulfill earlier over allocations.
 - HP 3PAR is the only vendor with arrays built from the ground up to support thin provisioning by eliminating the diminished performance and functional limitations that plague bolt-on thin solutions.

HP 3PAR Thin Conversion Software

Overview With HP 3PAR Thin Conversion, a technology refresh no longer requires a terabyte-for-terabyte replacement, but instead offers the opportunity to eliminate up to 75% of your legacy capacity, simply and rapidly. This savings alone can save you up to 60% on the cost of a technology refresh.

With HP 3PAR Thin Conversion, you can quickly shrink your storage footprint, reduce storage TCO, and meet your Green IT targets. HP 3PAR Thin Conversion software makes this possible by leveraging the zero-detection capabilities within the 3PAR ASIC and Thin Engine- HP 3PAR's unique virtualization mapping engine for space reclamation-to power the simple and rapid conversion of inefficient, "fat" volumes on legacy arrays to more efficient, higher-utilization "thin" volumes on any InServ Storage Server featuring Thin Built In™. Getting thin has never been so easy.

The zero-detection capability built into the HP 3PAR ASIC combined with Thin Conversion software can effectively and rapidly "thin" a heterogeneous datacenter to one-quarter of its original size-or less-while preserving service levels and without impacting production workloads. This means that now a technology is not only more affordable, but it reduces up-front capital costs as well as ongoing operational and environmental costs associated with powering, cooling, and housing your storage-and without requiring

Product Specifications - HP 3PAR OS Host Software

Models	special host software or professional services. HP 3PAR Thin Conversion 1TB LTU NOTE: Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.	TE248B
Product Highlights	<ul style="list-style-type: none">• Immediately eliminating storage capacity inefficiencies and permanently reducing disk expenditures• Reducing SAN ports and storage software fees (physical TB licensing)• Reducing power, cooling, and floor space costs by eliminating unnecessary drives in the conversion from fat to thin volumes• Avoiding complex services often required for fat-to-thin volume conversion• Reducing related storage, system, and DB administrator workloads• Permitting more application deployments more affordably• Delivering quicker payback by dramatically compressing the volume migration timeline from months to hours	

HP 3PAR Thin Persistence Software

Overview	With the introduction of HP 3PAR Thin Provisioning software in 2002, 3PAR revolutionized data storage by giving customers the ability to meet Green IT goals, reduce capacity purchases, decrease administration time, and address the significant problem of allocated but unused capacity head-on. With HP 3PAR Thin Persistence, HP 3PAR StoreServ Storage customers can now leverage next generation space reclamation technology to minimize storage TCO and maintain environmental responsibility targets they have worked so hard to achieve.	
Models	HP 3PAR Thin Persistence 1TB LTU NOTE: Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.	TE249B
Product Highlights	<ul style="list-style-type: none">• Eliminating storage capacity inefficiencies resulting from deleted files, when combined with Operating Systems that supports UNMAP (requires also Thin Conversion license).• Deferring disk expenditures necessary to accommodate new data growth• Reducing SAN ports and storage software fees (physical TB licensing)• Reducing power, cooling, and floor space costs by eliminating unnecessary capacity• Providing a simple, quick, and efficient mechanism for "thinning" volumes• Permitting more application deployments and data growth with fewer capacity assets• Speeding reclamation of space in minutes versus days or weeks	

HP 3PAR Virtual Copy Software

Overview	Built on thin copy technology, HP 3PAR Virtual Copy is a reservationless, non-duplicative, copy-on-write software product that allows you to protect and share data from any application, affordably. Snapshots are available on demand, instantly, in read-only and/or read-write form. With Virtual Copy, snapshots are reservationless because capacity is never reserved up-front and non-duplicative since changed data is never duplicated within the snapshot tree. Coupled with consistency groups and support for hundreds of snapshots per base volume, Virtual Copy efficiency delivers affordable, CDP-like rapid application recovery from multiple points in time. With a single command, you can revert a base volume to any selected snapshot-without impacting other snapshots in the tree. And when you delete a snapshot, this never affects peer snapshots. Virtual Copy also integrates with HP 3PAR Autonomic Groups and HP 3PAR Scheduler-both features which	
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Product Specifications - HP 3PAR OS Host Software

are built into the HP 3PAR Operating System-to automate the creation and deletion of virtual copy snapshots while giving users fine-grained control over the process. When used in conjunction with Autonomic Groups, Scheduler automates the creation of virtual copy snapshots across multiple boot and data volumes with full write consistency across all these different volumes. In combining these software capabilities, storage management is automated to reduce administration time and decrease the chance of human error.

Models	
HP 3PAR Virtual Copy F200/4x2TB NL Magazine LTU	TE384B*
HP 3PAR Virtual Copy F200/4x450GB 15K Magazine LTU	TE240B*
HP 3PAR Virtual Copy F200/4x50GB SSD Magazine LTU	TE297B*
HP 3PAR Virtual Copy F200/4x600GB 15K Magazine LTU	TE325B*
HP 3PAR Virtual Copy F400/4x2TB NL Magazine LTU	TE385B*
HP 3PAR Virtual Copy F400/4x450GB 15K Magazine LTU	TE241B*
HP 3PAR Virtual Copy F400/4x50GB SSD Magazine LTU	TE298B*
HP 3PAR Virtual Copy F400/4x600GB 15K Magazine LTU	TE326B*
HP 3PAR Virtual Copy F200/4x100GB SSD Magazine LTU	TE767B*
HP 3PAR Virtual Copy F400/4x100GB SSD Magazine LTU	TE768B*
HP 3PAR Virtual Copy F200/4x200GB SSD Magazine LTU	TE795B*
HP 3PAR Virtual Copy F400/4x200GB SSD Magazine LTU	TE796B*
HP 3PAR Virtual Copy T400/4x2TB NL Magazine LTU	TE386B*
HP 3PAR Virtual Copy T400/4x450GB 15K Magazine LTU	TE242B*
HP 3PAR Virtual Copy T400/4x50GB SSD Magazine LTU	TE299B*
HP 3PAR Virtual Copy T400/4x600GB 15K Magazine LTU	TE327B*
HP 3PAR Virtual Copy T800/4x2TB NL Magazine LTU	TE387B*
HP 3PAR Virtual Copy T800/4x450GB 15K Magazine LTU	TE243B*
HP 3PAR Virtual Copy T800/4x50GB SSD Magazine LTU	TE300B*
HP 3PAR Virtual Copy T800/4x600GB 15K Magazine LTU	TE328B*
HP 3PAR Virtual Copy F200/4x146GB 15K Magazine LTU	TE190B*
HP 3PAR Virtual Copy F200/4x1TB NL Magazine LTU	TE196B*
HP 3PAR Virtual Copy F200/4x300GB 15K Magazine LTU	TE192B*
HP 3PAR Virtual Copy F200/4x400GB 10K Magazine LTU	TE194B*
HP 3PAR Virtual Copy F400/4x146GB 15K Magazine LTU	TE191B*
HP 3PAR Virtual Copy F400/4x1TB NL Magazine LTU	TE197B*
HP 3PAR Virtual Copy F400/4x300GB 15K Magazine LTU	TE193B*
HP 3PAR Virtual Copy F400/4x400GB 10K Magazine LTU	TE195B*
HP 3PAR Virtual Copy T400/4x146GB 15K Magazine LTU	TE126B*
HP 3PAR Virtual Copy T400/4x1TB NL Magazine LTU	TE162B*
HP 3PAR Virtual Copy T400/4x300GB 15K Magazine LTU	TE150B*
HP 3PAR Virtual Copy T400/4x400GB 10K Magazine LTU	TE138B*
HP 3PAR Virtual Copy T800/4x146GB 15K Magazine LTU	TE127B*
HP 3PAR Virtual Copy T800/4x1TB NL Magazine LTU	TE163B*
HP 3PAR Virtual Copy T800/4x300GB 15K Magazine LTU	TE151B*
HP 3PAR Virtual Copy T800/4x400GB 10K Magazine LTU	TE139B*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Virtual Copy 90-Day Evaluation LTU	TE080B*
HP 3PAR Virtual Copy T400/4x750GB NL Magazine LTU	TE114B*
HP 3PAR Virtual Copy T800/4x750GB NL Magazine LTU	TE115B*
HP 3PAR Virtual Copy T400/4x100GB SSD Magazine LTU	TE769B*
HP 3PAR Virtual Copy T800/4x100GB SSD Magazine LTU	TE770B*
HP 3PAR Virtual Copy T400/4x200GB SSD Magazine LTU	TE797B*
HP 3PAR Virtual Copy T800/4x200GB SSD Magazine LTU	TE798B*
HP 3PAR Virtual Copy V400/4x100GB SSD Magazine LTU	TE926A*
HP 3PAR Virtual Copy V400/4x200GB SSD Magazine LTU	TE927A*
HP 3PAR Virtual Copy V400/4x2TB 7.2K Magazine LTU	TE928A*
HP 3PAR Virtual Copy V400/4x300GB 15K Magazine LTU	TE929A*
HP 3PAR Virtual Copy V400/4x600GB 15K Magazine LTU	TE930A*
HP 3PAR Virtual Copy V800/4x100GB SSD Magazine LTU	TE931A*
HP 3PAR Virtual Copy V800/4x200GB SSD Magazine LTU	TE932A*
HP 3PAR Virtual Copy V800/4x2TB 7.2K Magazine LTU	TE933A*
HP 3PAR Virtual Copy V800/4x300GB 15K Magazine LTU	TE934A*
HP 3PAR Virtual Copy V800/4x600GB 15K Magazine LTU	TE935A*
HP 3PAR Virtual Copy F200/4x300GB SAS LTU	BC619A*
HP 3PAR Virtual Copy F200/4x450GB SAS LTU	BC620A*
HP 3PAR Virtual Copy F200/4x900GB SAS LTU	BC621A*
HP 3PAR Virtual Copy F200/4x2TB SAS LTU	BC622A*
HP 3PAR Virtual Copy F400/4x300GB SAS LTU	BC623A*
HP 3PAR Virtual Copy F400/4x450GB SAS LTU	BC624A*
HP 3PAR Virtual Copy F400/4x900GB SAS LTU	BC625A*
HP 3PAR Virtual Copy F400/4x2TB SAS LTU	BC626A*
HP 3PAR Virtual Copy T400/4x300GB SAS LTU	BC627A*
HP 3PAR Virtual Copy T400/4x450GB SAS LTU	BC628A*
HP 3PAR Virtual Copy T400/4x900GB SAS LTU	BC629A*
HP 3PAR Virtual Copy T400/4x2TB SAS LTU	BC630A*
HP 3PAR Virtual Copy T800/4x300GB SAS LTU	BC631A*
HP 3PAR Virtual Copy T800/4x450GB SAS LTU	BC632A*
HP 3PAR Virtual Copy T800/4x900GB SAS LTU	BC633A*
HP 3PAR Virtual Copy T800/4x2TB SAS LTU	BC634A*
HP 3PAR Virtual Copy V400/4x300GB SAS LTU	BC635A*
HP 3PAR Virtual Copy V400/4x450GB SAS LTU	BC636A*
HP 3PAR Virtual Copy V400/4x900GB SAS LTU	BC637A*
HP 3PAR Virtual Copy V400/4x2TB SAS LTU	BC638A*
HP 3PAR Virtual Copy V800/4x300GB SAS LTU	BC639A*
HP 3PAR Virtual Copy V800/4x450GB SAS LTU	BC640A*
HP 3PAR Virtual Copy V800/4x900GB SAS LTU	BC641A*
HP 3PAR Virtual Copy V800/4x2TB SAS LTU	BC642A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR 10400 Virtual Copy Software Base LTU	BD199A*
HP 3PAR 10400 Virtual Copy Software Magazine LTU	BD210A*
HP 3PAR 10800 Virtual Copy Software Base LTU	BD221A*
HP 3PAR 10800 Virtual Copy Software Magazine LTU	BD232A*
HP 3PAR 10400 Virtual Copy 1TB Prov LTU	BD186A*
HP 3PAR 10800 Virtual Copy 1TB Prov LTU	BD187A*
HP 3PAR 7200 Virtual Copy Software Base LTU	BC753A*
HP 3PAR 7200 Virtual Copy Software Drive LTU	BC754A*
HP 3PAR 7400 Virtual Copy Software Base LTU	BC781A*
HP 3PAR 7400 Virtual Copy Software Drive LTU	BC782A*
HP 3PAR 7450 Virtual Copy Base LTU	BC896A*
HP 3PAR 7450 Virtual Copy Drive LTU	BC897A*
HP 3PAR Virtual Copy 10400/4x400GB SSD LTU	BC962A*
HP 3PAR Virtual Copy 10800/4x400GB SSD LTU	BC973A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

NOTE: Physical software licenses for T-Class are available only in China. All other regions are expected to order E-delivery licenses only

Product Highlights

- Snapshots available instantly, in read-only and/or read-write form.
- Developer-controlled mySnapshot functionality securely replaces/refreshes selected snapshots to speed development without burdening storage administrators.
- Support for consistency groups assures data integrity across volumes.
- Reservationless snapshots. Fine-grained capacity consumed only for changed data.
- Thin copy-on-writes. Changed data is never duplicated within a snapshot tree.
- Snapshots of snapshots for fast, flexible sharing of data sets without the need for additional base volumes.
- Revert to any snapshot with a single command, at any time.
- 256 read/write and 500 read-only snapshots per virtual volume. Affordable CDP-like rapid application recovery from multiple points in time.
- Thin copy-on-write technology and massive parallelism mean little to no performance impact.
- Freely delete snapshots without affecting peer snapshots.

HP 3PAR Remote Copy Software

Overview

HP 3PAR Remote Copy is a unique replication technology that allows you to protect and share data from any application more simply, efficiently, and affordably. Remote Copy dramatically reduces the cost of remote data replication and DR on several fronts by leveraging HP 3PAR's unique thin copy technologies, enabling the use of both mid-range and high-end arrays, and eliminating the need for professional services. In addition, HP 3PAR is the first storage vendor to offer autonomic DR configuration that enables you to set up and test your entire DR deployment—including multi-site replication using both mid-range and high-end arrays—in just minutes, from a single window.

Models

HP 3PAR Remote Copy 90-Day Evaluation LTU	TE081B*
HP 3PAR Remote Copy F200/4x2TB NL Magazine LTU	TE376B*
HP 3PAR Remote Copy F200/4x50GB SSD Magazine LTU	TE289B*
HP 3PAR Remote Copy F400/4x2TB NL Magazine LTU	TE377B*



Product Specifications - HP 3PAR OS Host Software

HP 3PAR Remote Copy F400/4x50GB SSD Magazine LTU	TE290B*
HP 3PAR Remote Copy F200/4x100GB SSD Magazine LTU	TE759B*
HP 3PAR Remote Copy F400/4x100GB SSD Magazine LTU	TE760B*
HP 3PAR Remote Copy F200/4x200GB SSD Magazine LTU	TE787B*
HP 3PAR Remote Copy F400/4x200GB SSD Magazine LTU	TE788B*
HP 3PAR Remote Copy T400/4x2TB NL Magazine LTU	TE378B*
HP 3PAR Remote Copy T400/4x50GB SSD Magazine LTU	TE291B*
HP 3PAR Remote Copy T400/4x750GB NL Magazine LTU	TE110B*
HP 3PAR Remote Copy T800/4x2TB NL Magazine LTU	TE379B*
HP 3PAR Remote Copy T800/4x50GB SSD Magazine LTU	TE292B*
HP 3PAR Remote Copy T400/4x100GB SSD Magazine LTU	TE761B*
HP 3PAR Remote Copy T800/4x100GB SSD Magazine LTU	TE762B*
HP 3PAR Remote Copy T400/4x200GB SSD Magazine LTU	TE789B*
HP 3PAR Remote Copy T800/4x200GB SSD Magazine LTU	TE790B*
HP 3PAR Remote Copy T800/4x750GB NL Magazine LTU	TE111B*
HP 3PAR Remote Copy F200/4x146GB 15K Magazine LTU	TE174B*
HP 3PAR Remote Copy F200/4x1TB NL Magazine LTU	TE180B*
HP 3PAR Remote Copy F200/4x300GB 15K Magazine LTU	TE176B*
HP 3PAR Remote Copy F200/4x400GB 10K Magazine LTU	TE178B*
HP 3PAR Remote Copy F200/4x450GB 15K Magazine LTU	TE232B*
HP 3PAR Remote Copy F200/4x600GB 15K Magazine LTU	TE317B*
HP 3PAR Remote Copy F400/4x146GB 15K Magazine LTU	TE175B*
HP 3PAR Remote Copy F400/4x1TB NL Magazine LTU	TE181B*
HP 3PAR Remote Copy F400/4x300GB 15K Magazine LTU	TE177B*
HP 3PAR Remote Copy F400/4x400GB 10K Magazine LTU	TE179B*
HP 3PAR Remote Copy F400/4x450GB 15K Magazine LTU	TE233B*
HP 3PAR Remote Copy F400/4x600GB 15K Magazine LTU	TE318B*
HP 3PAR Remote Copy T400/4x146GB 15K Magazine LTU	TE122B*
HP 3PAR Remote Copy T400/4x1TB NL Magazine LTU	TE158B*
HP 3PAR Remote Copy T400/4x300GB 15K Magazine LTU	TE146B*
HP 3PAR Remote Copy T400/4x400GB 10K Magazine LTU	TE134B*
HP 3PAR Remote Copy T400/4x450GB 15K Magazine LTU	TE234B*
HP 3PAR Remote Copy T400/4x600GB 15K Magazine LTU	TE319B*
HP 3PAR Remote Copy T800/4x146GB 15K Magazine LTU	TE123B*
HP 3PAR Remote Copy T800/4x1TB NL Magazine LTU	TE159B*
HP 3PAR Remote Copy T800/4x300GB 15K Magazine LTU	TE147B*
HP 3PAR Remote Copy T800/4x400GB 10K Magazine LTU	TE135B*
HP 3PAR Remote Copy T800/4x450GB 15K Magazine LTU	TE235B*
HP 3PAR Remote Copy T800/4x600GB 15K Magazine LTU	TE320B*
HP 3PAR Remote Copy V400/4x100GB SSD Magazine LTU	TE911A*
HP 3PAR Remote Copy V400/4x200GB SSD Magazine LTU	TE912A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Remote Copy V400/4x2TB 7.2K Magazine LTU	TE913A*
HP 3PAR Remote Copy V400/4x300GB 15K Magazine LTU	TE914A*
HP 3PAR Remote Copy V400/4x600GB 15K Magazine LTU	TE915A*
HP 3PAR Remote Copy V800/4x100GB SSD Magazine LTU	TE916A*
HP 3PAR Remote Copy V800/4x200GB SSD Magazine LTU	TE917A*
HP 3PAR Remote Copy V800/4x2TB 7.2K Magazine LTU	TE918A*
HP 3PAR Remote Copy V800/4x300GB 15K Magazine LTU	TE919A*
HP 3PAR Remote Copy V800/4x600GB 15K Magazine LTU	TE920A*
HP 3PAR Remote Copy F200/4x300GB SAS LTU	BC579A*
HP 3PAR Remote Copy F200/4x450GB SAS LTU	BC580A*
HP 3PAR Remote Copy F200/4x900GB SAS LTU	BC581A*
HP 3PAR Remote Copy F200/4x2TB SAS LTU	BC582A*
HP 3PAR Remote Copy F400/4x300GB SAS LTU	BC583A*
HP 3PAR Remote Copy F400/4x450GB SAS LTU	BC584A*
HP 3PAR Remote Copy F400/4x900GB SAS LTU	BC585A*
HP 3PAR Remote Copy F400/4x2TB SAS LTU	BC586A*
HP 3PAR Remote Copy T400/4x300GB SAS LTU	BC587A*
HP 3PAR Remote Copy T400/4x450GB SAS LTU	BC588A*
HP 3PAR Remote Copy T400/4x900GB SAS LTU	BC589A*
HP 3PAR Remote Copy T400/4x2TB SAS LTU	BC590A*
HP 3PAR Remote Copy T800/4x300GB SAS LTU	BC591A*
HP 3PAR Remote Copy T800/4x450GB SAS LTU	BC592A*
HP 3PAR Remote Copy T800/4x900GB SAS LTU	BC593A*
HP 3PAR Remote Copy T800/4x2TB SAS LTU	BC594A*
HP 3PAR Remote Copy V400/4x300GB SAS LTU	BC595A*
HP 3PAR Remote Copy V400/4x450GB SAS LTU	BC596A*
HP 3PAR Remote Copy V400/4x900GB SAS LTU	BC597A*
HP 3PAR Remote Copy V400/4x2TB SAS LTU	BC598A*
HP 3PAR Remote Copy V800/4x300GB SAS LTU	BC599A*
HP 3PAR Remote Copy V800/4x450GB SAS LTU	BC600A*
HP 3PAR Remote Copy V800/4x900GB SAS LTU	BC601A*
HP 3PAR Remote Copy V800/4x2TB SAS LTU	BC602A*
HP 3PAR 10400 Remote Copy Software Base LTU	BD200A*
HP 3PAR 10400 Remote Copy Software Magazine LTU	BD211A*
HP 3PAR 10800 Remote Copy Software Base LTU	BD222A*
HP 3PAR 10800 Remote Copy Software Magazine LTU	BD233A*
HP 3PAR 10400 Remote Copy 1TB Prov LTU	BD184A*
HP 3PAR 10800 Remote Copy 1TB Prov LTU	BD185A*
HP 3PAR 7200 Remote Copy Base LTU	BC755A*
HP 3PAR 7200 Remote Copy Drive LTU	BC756A*
HP 3PAR 7400 Remote Copy Base LTU	BC783A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR 7400 Remote Copy Drive LTU	BC784A*
HP 3PAR 7450 Remote Copy Base LTU	BC894A*
HP 3PAR 7450 Remote Copy Drive LTU	BC895A*
HP 3PAR Remote Copy 10400/4x400GB SSD LTU	BC963A*
HP 3PAR Remote Copy 10800/4x400GB SSD LTU	BC974A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

NOTE: Physical software licenses for T-Class are available only in China. All other regions are expected to order E-delivery licenses only

Product Highlights

- **Autonomic Configuration:** With the HP 3PAR[®] Management Console, even multi-site DR can be set up and tested in just minutes, and from a single window. Built-in, autonomic configuration capabilities unique to 3PAR Remote Copy enable DR to automatically and intelligently configure itself. With just a few clicks, you can set up and test remote replication with HP 3PAR StoreServ, or a combination of arrays at multiple sites.
- **Multi-Protocol Support:** With Native IP as well as Fibre Channel (FC) support, 3PAR Remote Copy delivers out-of-the-box connectivity over your IP network, enabling you to replicate data more cost-effectively by leveraging your existing infrastructure. Achieve robust DR without the expensive converters and management of a separate, special-purpose infrastructure.
- **Host-Independent Replication:** HP 3PAR Remote Copy is a host-independent, array-based data mirroring solution that boosts performance by offloading host servers of replication tasks. HP 3PAR Virtual Volumes (VVs) are mirrored from one HP 3PAR array to another over variable distances using the mode of operation that best fits your needs.
- **Flexible, Modular Architecture:** HP 3PAR Remote Copy is supported on all StoreServ arrays (both high-end and mid-range), all of which are scalable to meet your precise requirements. This flexibility gives you the ability to implement right-sized systems that meet the unique needs of each location. No more purchasing and managing high-end arrays even in DR configurations where smaller mid-range arrays could suffice. HP 3PAR Remote Copy also allows you to configure remote mirrors with different RAID properties from their source volumes so you can more precisely tailor protection levels and cost.
- **Balanced Performance:** HP 3PAR Remote Copy's line-trunking capability simplifies data transmission by making the most efficient use of all configured network links. Data transfers are autonomically balanced across all links, thus avoiding bottlenecks. Line-trunking also increases availability by automatically rebalancing the load in case of a link failure.
- **Long Distance Replication with Zero Data Loss:** HP 3PAR Remote Copy offers a unique Synchronous Long Distance mode that allows you to meet low RTOs and zero-data loss RPOs with complete distance flexibility while saving on hardware
- **Thin Provisioning Awareness:** HP 3PAR Remote Copy is "thin provisioning-aware", so target volumes provide the same cost and ease-of-use benefits as thin source volumes. With the combination of HP 3PAR Thin Provisioning and HP 3PAR Remote Copy, both primary and remote sites can share in the benefits of allocating volumes just once while consuming only necessary physical capacity. The result is unprecedented efficiency in data replication.

HP 3PAR Peer Persistence

Overview

HP 3PAR Peer Persistence software allows companies to federate their 3PAR StoreServ Storage systems across geographically separated data centers. This inter-site federation of storage allows customers to use their data centers more effectively by allowing them to move applications from one site to another as per their business need, and more importantly, without any application downtime.

Product Specifications - HP 3PAR OS Host Software

Peer Persistence leverages the robust high availability solutions already available on HP 3PAR StoreServ systems, and extends it even further by enabling a peer relationship between two 3PAR StoreServ Storage systems located at geographically separated sites. Peer Persistence enables failover/failback between two sites/data centers to be transparent to hosts and without any disruption to applications running on them. Peer Persistence is deployed with Remote Copy without the need for any additional hardware or appliance

Models	
HP 3PAR Peer Persistence Software 90-Day Evaluation LTU	BC830A*
HP 3PAR Peer Persistence Software F200/4x146GB Mag LTU	BC831A*
HP 3PAR Peer Persistence Software F400/4x146GB Mag LTU	BC832A*
HP 3PAR Peer Persistence Software F200/4x300GB 15K Mag LTU	BC833A*
HP 3PAR Peer Persistence Software F400/4x300GB 15K Mag LTU	BC834A*
HP 3PAR Peer Persistence Software F200/4x400GB Mag LTU	BC835A*
HP 3PAR Peer Persistence Software F400/4x400GB Mag LTU	BC836A*
HP 3PAR Peer Persistence Software F200/4x1TB NL Mag LTU	BC837A*
HP 3PAR Peer Persistence Software F400/4x1TB NL Mag LTU	BC838A*
HP 3PAR Peer Persistence Software F200/4x450GB Mag LTU	BC839A*
HP 3PAR Peer Persistence Software F400/4x450GB Mag LTU	BC840A*
HP 3PAR Peer Persistence Software F200/4x50GB SSD LTU	BC841A*
HP 3PAR Peer Persistence Software F400/4x50GB SSD LTU	BC842A*
HP 3PAR Peer Persistence Software F200/4x600GB 15K Mag LTU	BC843A*
HP 3PAR Peer Persistence Software F400/4x600GB 15K Mag LTU	BC844A*
HP 3PAR Peer Persistence Software F200/4x2TB NL Mag LTU	BC845A*
HP 3PAR Peer Persistence Software F400/4x2TB NL Mag LTU	BC846A*
HP 3PAR Peer Persistence Software F200/4x100GB SSD Mag LTU	BC847A*
HP 3PAR Peer Persistence Software F400/4x100GB SSD Mag LTU	BC848A*
HP 3PAR Peer Persistence Software F200/4x200GB SSD Mag LTU	BC849A*
HP 3PAR Peer Persistence Software F400/4x200GB SSD Mag LTU	BC850A*
HP 3PAR Peer Persistence Software T400/4x750GB NL Mag LTU	BC851A*
HP 3PAR Peer Persistence Software T800/4x750GB NL Mag LTU	BC852A*
HP 3PAR Peer Persistence Software T400/4x146GB 15K Mag LTU	BC853A*
HP 3PAR Peer Persistence Software T800/4x146GB 15K Mag LTU	BC854A*
HP 3PAR Peer Persistence Software T400/4x400GB 10K Mag LTU	BC855A*
HP 3PAR Peer Persistence Software T800/4x400GB 10K Mag LTU	BC856A*
HP 3PAR Peer Persistence Software T400/4x300GB 15K Mag LTU	BC857A*
HP 3PAR Peer Persistence Software T800/4x300GB 15K Mag LTU	BC858A*
HP 3PAR Peer Persistence Software T400/4x1TB NL Mag LTU	BC859A*
HP 3PAR Peer Persistence Software T800/4x1TB NL Mag LTU	BC860A*
HP 3PAR Peer Persistence Software T400/4x450GB 15K Mag LTU	BC861A*
HP 3PAR Peer Persistence Software T800/4x450GB 15K Mag LTU	BC862A*
HP 3PAR Peer Persistence Software T400/4x50GB SSD Mag LTU	BC863A*
HP 3PAR Peer Persistence Software T800/4x50GB SSD Mag LTU	BC864A*
HP 3PAR Peer Persistence Software T400/4x600GB 15K Mag LTU	BC865A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Peer Persistence Software T800/4x600GB 15K Mag LTU	BC866A*
HP 3PAR Peer Persistence Software T400/4x2TB NL Mag LTU	BC867A*
HP 3PAR Peer Persistence Software T800/4x2TB NL Mag LTU	BC868A*
HP 3PAR Peer Persistence Software T400/4x100GB SSD Mag LTU	BC869A*
HP 3PAR Peer Persistence Software T800/4x100GB SSD Mag LTU	BC870A*
HP 3PAR Peer Persistence Software T400/4x200GB SSD Mag LTU	BC871A*
HP 3PAR Peer Persistence Software T800/4x200GB SSD Mag LTU	BC872A*
HP 3PAR Peer Persistence Software V800/4x100GB SSD Mag LTU	BC874A*
HP 3PAR Peer Persistence Software V400/4x200GB SSD Mag LTU	BC875A*
HP 3PAR Peer Persistence Software V800/4x200GB SSD Mag LTU	BC876A*
HP 3PAR Peer Persistence Software V400/4x2TB 7.2K Mag LTU	BC877A*
HP 3PAR Peer Persistence Software V800/4x2TB 7.2K Mag LTU	BC878A*
HP 3PAR Peer Persistence Software V400/4x300GB 15K Mag LTU	BC879A*
HP 3PAR Peer Persistence Software V800/4x300GB 15K Mag LTU	BC880A*
HP 3PAR Peer Persistence Software V400/4x600GB 15K Mag LTU	BC881A*
HP 3PAR Peer Persistence Software V800/4x600GB 15K Mag LTU	BC882A*
HP 3PAR Peer Persistence Software V400/4x1TB 7.2K Mag LTU	BC883A*
HP 3PAR Peer Persistence Software V800/4x1TB 7.2K Mag LTU	BC884A*
HP 3PAR Peer Persistence Software F200/4x300GB SAS LTU	BC806A*
HP 3PAR Peer Persistence Software F200/4x450GB SAS LTU	BC807A*
HP 3PAR Peer Persistence Software F200/4x900GB SAS LTU	BC808A*
HP 3PAR Peer Persistence Software F200/4x2TB 7.2K SAS LTU	BC809A*
HP 3PAR Peer Persistence Software F400/4x300GB SAS LTU	BC810A*
HP 3PAR Peer Persistence Software F400/4x450GB SAS LTU	BC811A*
HP 3PAR Peer Persistence Software F400/4x900GB SAS LTU	BC812A*
HP 3PAR Peer Persistence Software F400/4x2TB 7.2K SAS LTU	BC813A*
HP 3PAR Peer Persistence Software T400/4x300GB SAS LTU	BC822A*
HP 3PAR Peer Persistence Software T400/4x450GB SAS LTU	BC823A*
HP 3PAR Peer Persistence Software T400/4x900GB SAS LTU	BC824A*
HP 3PAR Peer Persistence Software T400/4x2TB SAS LTU	BC825A*
HP 3PAR Peer Persistence Software T800/4x300GB SAS LTU	BC826A*
HP 3PAR Peer Persistence Software T800/4x450GB SAS LTU	BC827A*
HP 3PAR Peer Persistence Software T800/4x900GB SAS LTU	BC828A*
HP 3PAR Peer Persistence Software T800/4x2TB SAS LTU	BC829A*
HP 3PAR Peer Persistence Software V400/4x300GB SAS LTU	BC814A*
HP 3PAR Peer Persistence Software V400/4x450GB SAS LTU	BC815A*
HP 3PAR Peer Persistence Software V400/4x900GB SAS LTU	BC816A*
HP 3PAR Peer Persistence Software V400/4x2TB 7.2K SAS LTU	BC817A*
HP 3PAR Peer Persistence Software V800/4x300GB SAS LTU	BC818A*
HP 3PAR Peer Persistence Software V800/4x450GB SAS LTU	BC819A*
HP 3PAR Peer Persistence Software V800/4x900GB SAS LTU	BC820A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Peer Persistence Software V800/4x2TB 7.2K SAS LTU	BC821A*
HP 3PAR 10400 Peer Persistence Software Base LTU	BD204A*
HP 3PAR 10400 Peer Persistence Software Magazine LTU	BD215A*
HP 3PAR 10800 Peer Persistence Software Base LTU	BD226A*
HP 3PAR 10800 Peer Persistence Software Magazine LTU	BD237A*
HP 3PAR 10400 Peer Persist 1TB Prov LTU	BD188A*
HP 3PAR 10800 Peer Persist 1TB Prov LTU	BD189A*
HP 3PAR 7200 Peer Persistence Base LTU	BC800A*
HP 3PAR 7200 Peer Persistence Drive LTU	BC801A*
HP 3PAR 7400 Peer Persistence Base LTU	BC802A*
HP 3PAR 7400 Peer Persistence Drive LTU	BC803A*
HP 3PAR 7450 Peer Persistence Base LTU	BC898A*
HP 3PAR 7450 Peer Persistence Drive LTU	BC899A*
HP 3PAR Peer Persistence 10400/4x400GB SSD LTU	BC968A*
HP 3PAR Peer Persistence 10800/4x400GB SSD LTU	BC979A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

NOTE: Physical software licenses for T-Class and for F-Class (146GB, 400GB, 450GB and 50GB SSD software SKUs) are available only in China. All other regions are expected to order E-delivery licenses only

HP 3PAR Adaptive Optimization

Overview

HP 3PAR Adaptive Optimization Software gives enterprise and cloud datacenters the ability to optimize service levels autonomically, on a large scale, and for a lower total cost than any other solution available today.

Adaptive Optimization takes a fine-grained approach to autonomic storage tiering that optimizes service levels by pairing data at the sub-volume level with the most cost-efficient resource capable of meeting its particular service level requirement. Policy-driven, granular data movement takes place autonomically, on an ongoing basis-so the right Quality of Service (QoS) is delivered to the right data at the right time, at all times.

Adaptive Optimization is also included in the Optimization Suite on HP 3PAR StoreServ 10000 Storage Systems and in the Data Optimization Software Suite v2 on HP 3PAR StoreServ 7000 and 7450 Storage.

Models

HP 3PAR Adaptive Optimization F200/4x1TB NL Magazine LTU	TE352B*
HP 3PAR Adaptive Optimization F200/4x50GB SSD Magazine LTU	TE360B*
HP 3PAR Adaptive Optimization F400/4x1TB NL Magazine LTU	TE353B*
HP 3PAR Adaptive Optimization F400/4x50GB SSD Magazine LTU	TE361B*
HP 3PAR Adaptive Optimization F200/4x100GB SSD LTU	TE807B*
HP 3PAR Adaptive Optimization F400/4x100GB SSD LTU	TE808B*
HP 3PAR Adaptive Optimization F200/4x200GB SSD LTU	TE811B*
HP 3PAR Adaptive Optimization F400/4x200GB SSD LTU	TE812B*
HP 3PAR Adaptive Optimization 90-Day Evaluation LTU (F-Class)	TE337B*
HP 3PAR Adaptive Optimization T400/4x1TB NL Magazine LTU	TE354B*



Product Specifications - HP 3PAR OS Host Software

HP 3PAR Adaptive Optimization T400/4x50GB SSD Magazine LTU	TE362B*
HP 3PAR Adaptive Optimization T400/4x750GB NL Magazine LTU	TE338B*
HP 3PAR Adaptive Optimization T800/4x1TB NL Magazine LTU	TE355B*
HP 3PAR Adaptive Optimization T800/4x50GB SSD Magazine LTU	TE363B*
HP 3PAR Adaptive Optimization T400/4x100GB SSD LTU	TE809B*
HP 3PAR Adaptive Optimization T800/4x100GB SSD LTU	TE810B*
HP 3PAR Adaptive Optimization T400/4x200GB SSD LTU	TE813B*
HP 3PAR Adaptive Optimization T800/4x200GB SSD LTU	TE814B*
HP 3PAR Adaptive Optimization T800/4x750GB NL Magazine LTU	TE339B*
HP 3PAR Adaptive Optimization F200/4x146GB 15K Magazine LTU	TE340B*
HP 3PAR Adaptive Optimization F200/4x300GB 15K Magazine LTU	TE344B*
HP 3PAR Adaptive Optimization F200/4x400GB 10K Magazine LTU	TE348B*
HP 3PAR Adaptive Optimization F200/4x450GB 15K Magazine LTU	TE356B*
HP 3PAR Adaptive Optimization F200/4x600GB 15K Magazine LTU	TE364B*
HP 3PAR Adaptive Optimization F400/4x146GB 15K Magazine LTU	TE341B*
HP 3PAR Adaptive Optimization F400/4x300GB 15K Magazine LTU	TE345B*
HP 3PAR Adaptive Optimization F400/4x400GB 10K Magazine LTU	TE349B*
HP 3PAR Adaptive Optimization F400/4x450GB 15K Magazine LTU	TE357B*
HP 3PAR Adaptive Optimization F400/4x600GB 15K Magazine LTU	TE365B*
HP 3PAR Adaptive Optimization T400/4x146GB 15K Magazine LTU	TE342B*
HP 3PAR Adaptive Optimization T400/4x300GB 15K Magazine LTU	TE346B*
HP 3PAR Adaptive Optimization T400/4x400GB 10K Magazine LTU	TE350B*
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HP 3PAR Adaptive Optimization T800/4x146GB 15K Magazine LTU	TE343B*
HP 3PAR Adaptive Optimization T800/4x300GB 15K Magazine LTU	TE347B*
HP 3PAR Adaptive Optimization T800/4x400GB 10K Magazine LTU	TE351B*
HP 3PAR Adaptive Optimization T800/4x450GB 15K Magazine LTU	TE359B*
HP 3PAR Adaptive Optimization T800/4x600GB 15K Magazine LTU	TE367B*
HP 3PAR Adaptive Optimization V400/4x100GB SSD LTU	TE815A*
HP 3PAR Adaptive Optimization V400/4x200GB SSD LTU	TE816A*
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HP 3PAR Adaptive Optimization V800/4x300GB 15K LTU	TE823A*
HP 3PAR Adaptive Optimization V800/4x600GB 15K LTU	TE824A*
HP 3PAR Adaptive Optimization F200/4x300GB SAS LTU	BC475A*
HP 3PAR Adaptive Optimization F200/4x450GB SAS LTU	BC476A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Adaptive Optimization F200/4x900GB SAS LTU	BC477A*
HP 3PAR Adaptive Optimization F200/4x2TB SAS LTU	BC478A*
HP 3PAR Adaptive Optimization F400/4x300GB SAS LTU	BC479A*
HP 3PAR Adaptive Optimization F400/4x450GB SAS LTU	BC480A*
HP 3PAR Adaptive Optimization F400/4x900GB SAS LTU	BC481A*
HP 3PAR Adaptive Optimization F400/4x2TB SAS LTU	BC482A*
HP 3PAR Adaptive Optimization T400/4x300GB SAS LTU	BC483A*
HP 3PAR Adaptive Optimization T400/4x450GB SAS LTU	BC484A*
HP 3PAR Adaptive Optimization T400/4x900GB SAS LTU	BC485A*
HP 3PAR Adaptive Optimization T400/4x2TB SAS LTU	BC486A*
HP 3PAR Adaptive Optimization T800/4x300GB SAS LTU	BC487A*
HP 3PAR Adaptive Optimization T800/4x450GB SAS LTU	BC488A*
HP 3PAR Adaptive Optimization T800/4x900GB SAS LTU	BC489A*
HP 3PAR Adaptive Optimization T800/4x2TB SAS LTU	BC490A*
HP 3PAR Adaptive Optimization V400/4x300GB SAS LTU	BC491A*
HP 3PAR Adaptive Optimization V400/4x450GB SAS LTU	BC492A*
HP 3PAR Adaptive Optimization V400/4x900GB SAS LTU	BC493A*
HP 3PAR Adaptive Optimization V400/4x2TB SAS LTU	BC494A*
HP 3PAR Adaptive Optimization V800/4x300GB SAS LTU	BC495A*
HP 3PAR Adaptive Optimization V800/4x450GB SAS LTU	BC496A*
HP 3PAR Adaptive Optimization V800/4x900GB SAS LTU	BC497A*
HP 3PAR Adaptive Optimization V800/4x2TB SAS LTU	BC498A*
HP 3PAR 10400 Adaptive Optimization Software Base LTU	BD197A*
HP 3PAR 10400 Adaptive Optimization Software Magazine LTU	BD208A*
HP 3PAR 10800 Adaptive Optimization Software Base LTU	BD219A*
HP 3PAR 10800 Adaptive Optimization Software Magazine LTU	BD230A*
HP 3PAR 7200 Adaptive Optimization Software Base LTU	BC759A*
HP 3PAR 7200 Adaptive Optimization Software Drive LTU	BC760A*
HP 3PAR 7400 Adaptive Optimization Software Base LTU	BC787A*
HP 3PAR 7400 Adaptive Optimization Software Drive LTU	BC788A*
HP 3PAR 7450 Adaptive Opt Base LTU	BC902A*
HP 3PAR 7450 Adaptive Opt Drive LTU	BC903A*
HP 3PAR Adaptive Optimization 10400/4x400GB SSD LTU	BC960A*
HP 3PAR Adaptive Optimization 10800/4x400GB SSD LTU	BC971A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

NOTE: Physical software licenses for T-Class are available only in China. All other regions are expected to order E-delivery licenses only

Product Highlights

- **Reduce Cost by:**
 - Delivering sub-volume level, bi-directional data optimization.
 - Enabling broad deployments with application-specific controls.
- **Gain Agility by:**



Product Specifications - HP 3PAR OS Host Software

- Offering application prioritization modes with QoS gradients.
- Autonomically delivering policy-driven data optimization.
- **Minimize Risk by:**
 - Leveraging a proven, fine-grained data movement engine.
 - Controlling data movement timing.

HP 3PAR Dynamic Optimization and Policy Advisor

Overview

HP 3PAR Dynamic Optimization and HP 3PAR Policy Advisor for Dynamic Optimization are autonomic storage tiering tools that give your organization the ability to react quickly to changing application and infrastructure requirements. Used together, these unique 3PAR utilities alleviate the problem of costly and time-consuming quality of service (QoS) level optimization—even in the largest and most demanding environments.

Dynamic Optimization is also included in the Optimization Suite on HP 3PAR StoreServ 10000 Storage Systems and in the Data Optimization Software Suite v2 on HP 3PAR StoreServ 7000 and 7450 Storage.

Model

HP 3PAR Dynamic Optimization F200/4x146GB 15K Magazine LTU	TE198B*
HP 3PAR Dynamic Optimization F200/4x1TB 10K Magazine LTU	TE204B*
HP 3PAR Dynamic Optimization F200/4x2TB NL Magazine LTU	TE372B*
HP 3PAR Dynamic Optimization F200/4x300GB 15K Magazine LTU	TE200B*
HP 3PAR Dynamic Optimization F200/4x400GB 10K Magazine LTU	TE202B*
HP 3PAR Dynamic Optimization F200/4x450GB 15K Magazine LTU	TE228B*
HP 3PAR Dynamic Optimization F200/4x50GB SSD Magazine LTU	TE285B*
HP 3PAR Dynamic Optimization F200/4x600GB 15K Magazine LTU	TE313B*
HP 3PAR Dynamic Optimization F400/4x146GB 15K Magazine LTU	TE199B*
HP 3PAR Dynamic Optimization F400/4x1TB 10K Magazine LTU	TE205B*
HP 3PAR Dynamic Optimization F400/4x2TB NL Magazine LTU	TE373B*
HP 3PAR Dynamic Optimization F400/4x300GB 15K Magazine LTU	TE201B*
HP 3PAR Dynamic Optimization F400/4x400GB 10K Magazine LTU	TE203B*
HP 3PAR Dynamic Optimization F400/4x450GB 15K Magazine LTU	TE229B*
HP 3PAR Dynamic Optimization F400/4x50GB SSD Magazine LTU	TE286B*
HP 3PAR Dynamic Optimization F400/4x600GB 15K Magazine LTU	TE314B*
HP 3PAR Dynamic Optimization F200/4x100GB SSD Magazine LTU	TE755B*
HP 3PAR Dynamic Optimization F400/4x100GB SSD Magazine LTU	TE756B*
HP 3PAR Dynamic Optimization F200/4x200GB SSD Magazine LTU	TE783B*
HP 3PAR Dynamic Optimization F400/4x200GB SSD Magazine LTU	TE784B*
HP 3PAR Dynamic Optimization 90-Day Evaluation LTU (F-Class)	TE092B*
HP 3PAR Dynamic Optimization T400/4x146GB 15K Magazine LTU	TE120B*
HP 3PAR Dynamic Optimization T400/4x1TB NL Magazine LTU	TE156B*
HP 3PAR Dynamic Optimization T400/4x2TB NL Magazine LTU	TE374B*
HP 3PAR Dynamic Optimization T400/4x300GB 15K Magazine LTU	TE144B*
HP 3PAR Dynamic Optimization T400/4x400GB 10K Magazine LTU	TE132B*
HP 3PAR Dynamic Optimization T400/4x450GB 15K Magazine LTU	TE230B*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Dynamic Optimization T400/4x50GB SSD Magazine LTU	TE287B*
HP 3PAR Dynamic Optimization T400/4x600GB 15K Magazine LTU	TE315B*
HP 3PAR Dynamic Optimization T400/4x750GB NL Magazine LTU	TE108B*
HP 3PAR Dynamic Optimization T800/4x146GB 15K Magazine LTU	TE121B*
HP 3PAR Dynamic Optimization T800/4x1TB NL Magazine LTU	TE157B*
HP 3PAR Dynamic Optimization T800/4x2TB NL Magazine LTU	TE375B*
HP 3PAR Dynamic Optimization T800/4x300GB 15K Magazine LTU	TE145B*
HP 3PAR Dynamic Optimization T800/4x400GB 10K Magazine LTU	TE133B*
HP 3PAR Dynamic Optimization T800/4x450GB 15K Magazine LTU	TE231B*
HP 3PAR Dynamic Optimization T800/4x50GB SSD Magazine LTU	TE288B*
HP 3PAR Dynamic Optimization T800/4x600GB 15K Magazine LTU	TE316B*
HP 3PAR Dynamic Optimization T800/4x750GB NL Magazine LTU	TE109B*
HP 3PAR Dynamic Optimization T400/4x100GB SSD Magazine LTU	TE757B*
HP 3PAR Dynamic Optimization T800/4x100GB SSD Magazine LTU	TE758B*
HP 3PAR Dynamic Optimization T400/4x200GB SSD Magazine LTU	TE785B*
HP 3PAR Dynamic Optimization T800/4x200GB SSD Magazine LTU	TE786B*
HP 3PAR Dynamic Optimization 90-Day Evaluation LTU	TE092B*
HP 3PAR Dynamic Optimization V400/4x100GB SSD Magazine LTU	TE825A*
HP 3PAR Dynamic Optimization V400/4x200GB SSD Magazine LTU	TE826A*
HP 3PAR Dynamic Optimization V400/4x2TB 7.2K Magazine LTU	TE827A*
HP 3PAR Dynamic Optimization V400/4x300GB 15K Magazine LTU	TE828A*
HP 3PAR Dynamic Optimization V400/4x600GB 15K Magazine LTU	TE829A*
HP 3PAR Dynamic Optimization V800/4x100GB SSD Magazine LTU	TE830A*
HP 3PAR Dynamic Optimization V800/4x200GB SSD Magazine LTU	TE831A*
HP 3PAR Dynamic Optimization V800/4x2TB 7.2K Magazine LTU	TE832A*
HP 3PAR Dynamic Optimization V800/4x300GB 15K Magazine LTU	TE833A*
HP 3PAR Dynamic Optimization V800/4x600GB 15K Magazine LTU	TE834A*
HP 3PAR Dynamic Optimization F200/4x300GB SAS LTU	BC499A*
HP 3PAR Dynamic Optimization F200/4x450GB SAS LTU	BC500A*
HP 3PAR Dynamic Optimization F200/4x900GB SAS LTU	BC501A*
HP 3PAR Dynamic Optimization F200/4x2TB SAS LTU	BC502A*
HP 3PAR Dynamic Optimization F400/4x300GB SAS LTU	BC503A*
HP 3PAR Dynamic Optimization F400/4x450GB SAS LTU	BC504A*
HP 3PAR Dynamic Optimization F400/4x900GB SAS LTU	BC505A*
HP 3PAR Dynamic Optimization F400/4x2TB SAS LTU	BC506A*
HP 3PAR Dynamic Optimization T400/4x300GB SAS LTU	BC507A*
HP 3PAR Dynamic Optimization T400/4x450GB SAS LTU	BC508A*
HP 3PAR Dynamic Optimization T400/4x900GB SAS LTU	BC509A*
HP 3PAR Dynamic Optimization T400/4x2TB SAS LTU	BC510A*
HP 3PAR Dynamic Optimization T800/4x300GB SAS LTU	BC511A*
HP 3PAR Dynamic Optimization T800/4x450GB SAS LTU	BC512A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Dynamic Optimization T800/4x900GB SAS LTU	BC513A*
HP 3PAR Dynamic Optimization T800/4x2TB SAS LTU	BC514A*
HP 3PAR Dynamic Optimization V400/4x300GB SAS LTU	BC515A*
HP 3PAR Dynamic Optimization V400/4x450GB SAS LTU	BC516A*
HP 3PAR Dynamic Optimization V400/4x900GB SAS LTU	BC517A*
HP 3PAR Dynamic Optimization V400/4x2TB SAS LTU	BC518A*
HP 3PAR Dynamic Optimization V800/4x300GB SAS LTU	BC519A*
HP 3PAR Dynamic Optimization V800/4x450GB SAS LTU	BC520A*
HP 3PAR Dynamic Optimization V800/4x900GB SAS LTU	BC521A*
HP 3PAR Dynamic Optimization V800/4x2TB SAS LTU	BC522A*
HP 3PAR 10400 Dynamic Optimization Software Base LTU	BD198A*
HP 3PAR 10400 Dynamic Optimization Software Magazine LTU	BD209A*
HP 3PAR 10800 Dynamic Optimization Software Base LTU	BD220A*
HP 3PAR 10800 Dynamic Optimization Software Magazine LTU	BD231A*
HP 3PAR 7200 Dynamic Optimization Software Base LTU	BC757A*
HP 3PAR 7200 Dynamic Optimization Software Drive LTU	BC758A*
HP 3PAR 7400 Dynamic Optimization Software Base LTU	BC785A*
HP 3PAR 7400 Dynamic Optimization Software Drive LTU	BC786A*
HP 3PAR 7450 Dynamic Opt Base LTU	BC904A*
HP 3PAR 7450 Dynamic Opt Drive LTU	BC905A*
HP 3PAR Dynamic Optimization 10400/4x400GB SSD LTU	BC961A*
HP 3PAR Dynamic Optimization 10800/4x400GB SSD LTU	BC972A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

NOTE: Physical software licenses for T-Class are available only in China. All other regions are expected to order E-delivery licenses only

Product Highlights

Dynamic Optimization:

- Autonomically applies the right storage resources to the right volume at the right time without scheduling, planning, or impacting application performance.
- Eliminates the cost of over-provisioning to accommodate usage spikes and manual migration of data to lower-cost storage resources.
- Enables service level change orders on demand.
- Aligns appropriate storage resources as needed with the changing value of data.
- Autonomically, intelligently and non-disruptively rebalances entire system with a single button.
- Allows for large-scale performance optimizations after adding new resources to the system or moving a large number of volumes between tiers.

HP 3PAR System Tuner

Overview

Because maintaining good balance is critical to high and predictable performance levels, the HP 3PAR Operating System autonomically distributes volumes widely and evenly across all available StoreServ Storage Systems. 3PAR System Tuner builds on this already well-balanced system to ensure optimal performance over time—even as your system grows and you bring new applications online.

Product Specifications - HP 3PAR OS Host Software

With System Tuner, your StoreServ arrays remain at their peak performance, no matter what. System Tuner autonomically detects and eliminates hotspots and bottlenecks without disruption to applications, impact to service levels, and changes to pre-existing service level characteristics such as RAID type. Your storage performance remains optimized over time, and you don't even have to think about it.

System Tuner is included in the Optimization Suite on HP 3PAR StoreServ 10000 Storage Systems and in the new HP 3PAR OS Suite. It is offered as a standalone software feature on HP 3PAR T and F-Class Storage Systems.

Models	
HP 3PAR System Tuner F200/4x146GB 15K Magazine LTU	TE182B*
HP 3PAR System Tuner F200/4x1TB NL Magazine LTU	TE188B*
HP 3PAR System Tuner F200/4x2TB NL Magazine LTU	TE380B*
HP 3PAR System Tuner F200/4x300GB 15K Magazine LTU	TE184B*
HP 3PAR System Tuner F200/4x400GB 10K Magazine LTU	TE186B*
HP 3PAR System Tuner F200/4x450GB 15K Magazine LTU	TE236B*
HP 3PAR System Tuner F200/4x50GB SSD Magazine LTU	TE293B*
HP 3PAR System Tuner F200/4x600GB 15K Magazine LTU	TE321B*
HP 3PAR System Tuner F400/4x146GB 15K Magazine LTU	TE183B*
HP 3PAR System Tuner F400/4x1TB NL Magazine LTU	TE189B*
HP 3PAR System Tuner F400/4x2TB NL Magazine LTU	TE381B*
HP 3PAR System Tuner F400/4x300GB 15K Magazine LTU	TE185B*
HP 3PAR System Tuner F400/4x400GB 10K Magazine LTU	TE187B*
HP 3PAR System Tuner F400/4x450GB 15K Magazine LTU	TE237B*
HP 3PAR System Tuner F400/4x50GB SSD Magazine LTU	TE294B*
HP 3PAR System Tuner F400/4x600GB 15K Magazine LTU	TE322B*
HP 3PAR System Tuner F200/4x100GB SSD Magazine LTU	TE763B*
HP 3PAR System Tuner F400/4x100GB SSD Magazine LTU	TE764B*
HP 3PAR System Tuner F200/4x200GB SSD Magazine LTU	TE791B*
HP 3PAR System Tuner F400/4x200GB SSD Magazine LTU	TE792B*
HP 3PAR System Tuner 90-Day Evaluation LTU	TE084B*
HP 3PAR System Tuner T400/4x146GB 15K Magazine LTU	TE124B*
HP 3PAR System Tuner T400/4x1TB NL Magazine LTU	TE160B*
HP 3PAR System Tuner T400/4x2TB NL Magazine LTU	TE382B*
HP 3PAR System Tuner T400/4x300GB 15K Magazine LTU	TE148B*
HP 3PAR System Tuner T400/4x400GB 10K Magazine LTU	TE136B*
HP 3PAR System Tuner T400/4x450GB 15K Magazine LTU	TE238B*
HP 3PAR System Tuner T400/4x50GB SSD Magazine LTU	TE295B*
HP 3PAR System Tuner T400/4x600GB 15K Magazine LTU	TE323B*
HP 3PAR System Tuner T400/4x750GB NL Magazine LTU	TE112B*
HP 3PAR System Tuner T800/4x146GB 15K Magazine LTU	TE125B*
HP 3PAR System Tuner T800/4x1TB NL Magazine LTU	TE161B*
HP 3PAR System Tuner T800/4x2TB NL Magazine LTU	TE383B*
HP 3PAR System Tuner T800/4x300GB 15K Magazine LTU	TE149B*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR System Tuner T800/4x400GB 10K Magazine LTU	TE137B*
HP 3PAR System Tuner T800/4x450GB 15K Magazine LTU	TE239B*
HP 3PAR System Tuner T800/4x50GB SSD Magazine LTU	TE296B*
HP 3PAR System Tuner T800/4x600GB 15K Magazine LTU	TE324B*
HP 3PAR System Tuner T800/4x750GB NL Magazine LTU	TE113B*
HP 3PAR System Tuner T400/4x100GB SSD Magazine LTU	TE765B*
HP 3PAR System Tuner T800/4x100GB SSD Magazine LTU	TE766B*
HP 3PAR System Tuner T400/4x200GB SSD Magazine LTU	TE793B*
HP 3PAR System Tuner T800/4x200GB SSD Magazine LTU	TE794B*
HP 3PAR System Tuner F200/4x300GB SAS LTU	BC603A*
HP 3PAR System Tuner F200/4x450GB SAS LTU	BC604A*
HP 3PAR System Tuner F200/4x900GB SAS LTU	BC605A*
HP 3PAR System Tuner F200/4x2TB SAS LTU	BC606A*
HP 3PAR System Tuner F400/4x300GB SAS LTU	BC607A*
HP 3PAR System Tuner F400/4x450GB SAS LTU	BC608A*
HP 3PAR System Tuner F400/4x900GB SAS LTU	BC609A*
HP 3PAR System Tuner F400/4x2TB SAS LTU	BC610A*
HP 3PAR System Tuner T400/4x300GB SAS LTU	BC611A*
HP 3PAR System Tuner T400/4x450GB SAS LTU	BC612A*
HP 3PAR System Tuner T400/4x900GB SAS LTU	BC613A*
HP 3PAR System Tuner T400/4x2TB SAS LTU	BC614A*
HP 3PAR System Tuner T800/4x300GB SAS LTU	BC615A*
HP 3PAR System Tuner T800/4x450GB SAS LTU	BC616A*
HP 3PAR System Tuner T800/4x900GB SAS LTU	BC617A*
HP 3PAR System Tuner T800/4x2TB SAS LTU	BC618A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

NOTE: Physical software licenses for T-Class are available only in China. All other regions are expected to order E-delivery licenses only

HP 3PAR Virtual Domains

Overview

HP 3PAR Virtual Domains is virtual machine software that delivers secure access and robust storage services for different applications and user groups, also known as virtual private arrays. By providing secure, administrative segregation of users and hosts within a consolidated, massively parallel HP 3PAR StoreServ, Virtual Domains allows individual user groups and applications to affordably achieve greater storage service levels (performance, availability, and functionality) than previously possible.

HP 3PAR Virtual Domains is ideal for enterprises or service providers looking to leverage the benefits of consolidation and deploy a purpose-built infrastructure for their private or public cloud.

Models

HP 3PAR Virtual Domain F200/4x146GB 15K Magazine LTU	TE206B*
HP 3PAR Virtual Domain F200/4x1TB 10K Magazine LTU	TE212B*
HP 3PAR Virtual Domain F200/4x2TB NL Magazine LTU	TE388B*



Product Specifications - HP 3PAR OS Host Software

HP 3PAR Virtual Domain F200/4x300GB 15K Magazine LTU	TE208B*
HP 3PAR Virtual Domain F200/4x400GB 10K Magazine LTU	TE210B*
HP 3PAR Virtual Domain F200/4x450GB 15K Magazine LTU	TE244B*
HP 3PAR Virtual Domain F200/4x50GB SSD Magazine LTU	TE301B*
HP 3PAR Virtual Domain F200/4x600GB 15K Magazine LTU	TE329B*
HP 3PAR Virtual Domain F400/4x146GB 15K Magazine LTU	TE207B*
HP 3PAR Virtual Domain F400/4x1TB 10K Magazine LTU	TE213B*
HP 3PAR Virtual Domain F400/4x2TB NL Magazine LTU	TE389B*
HP 3PAR Virtual Domain F400/4x300GB 15K Magazine LTU	TE209B*
HP 3PAR Virtual Domain F400/4x400GB 10K Magazine LTU	TE211B*
HP 3PAR Virtual Domain F400/4x450GB 15K Magazine LTU	TE245B*
HP 3PAR Virtual Domain F400/4x50GB SSD Magazine LTU	TE302B*
HP 3PAR Virtual Domain F400/4x600GB 15K Magazine LTU	TE330B*
HP 3PAR Virtual Domain F200/4x100GB SSD Magazine LTU	TE771B*
HP 3PAR Virtual Domain F400/4x100GB SSD Magazine LTU	TE772B*
HP 3PAR Virtual Domain F200/4x200GB SSD Magazine LTU	TE799B*
HP 3PAR Virtual Domain F400/4x200GB SSD Magazine LTU	TE800B*
HP 3PAR Virtual Domains 90-Day Evaluation LTU (F-Class)	TE094B*
HP 3PAR Virtual Domain T400/4x146GB 15K Magazine LTU	TE128B*
HP 3PAR Virtual Domain T400/4x1TB NL Magazine LTU	TE164B*
HP 3PAR Virtual Domain T400/4x2TB NL Magazine LTU	TE390B*
HP 3PAR Virtual Domain T400/4x300GB 15K Magazine LTU	TE152B*
HP 3PAR Virtual Domain T400/4x400GB 10K Magazine LTU	TE140B*
HP 3PAR Virtual Domain T400/4x450GB 15K Magazine LTU	TE246B*
HP 3PAR Virtual Domain T400/4x50GB SSD Magazine LTU	TE303B*
HP 3PAR Virtual Domain T400/4x600GB 15K Magazine LTU	TE331B*
HP 3PAR Virtual Domain T400/4x750GB NL Magazine LTU	TE116B*
HP 3PAR Virtual Domain T800/4x146GB 15K Magazine LTU	TE129B*
HP 3PAR Virtual Domain T800/4x1TB NL Magazine LTU	TE165B*
HP 3PAR Virtual Domain T800/4x2TB NL Magazine LTU	TE391B*
HP 3PAR Virtual Domain T800/4x300GB 15K Magazine LTU	TE153B*
HP 3PAR Virtual Domain T800/4x400GB 10K Magazine LTU	TE141B*
HP 3PAR Virtual Domain T800/4x450GB 15K Magazine LTU	TE247B*
HP 3PAR Virtual Domain T800/4x50GB SSD Magazine LTU	TE304B*
HP 3PAR Virtual Domain T800/4x600GB 15K Magazine LTU	TE332B*
HP 3PAR Virtual Domain T800/4x750GB NL Magazine LTU	TE117B*
HP 3PAR Virtual Domain T400/4x100GB SSD Magazine LTU	TE773B*
HP 3PAR Virtual Domain T800/4x100GB SSD Magazine LTU	TE774B*
HP 3PAR Virtual Domain T400/4x200GB SSD Magazine LTU	TE801B*
HP 3PAR Virtual Domain T800/4x200GB SSD Magazine LTU	TE802B*
HP 3PAR Virtual Domains 90-Day Evaluation LTU (T - Class)	TE094B*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Virtual Domain V400/4x100GB SSD Magazine LTU	TE936A*
HP 3PAR Virtual Domain V400/4x200GB SSD Magazine LTU	TE937A*
HP 3PAR Virtual Domain V400/4x2TB 7.2K Magazine LTU	TE938A*
HP 3PAR Virtual Domain V400/4x300GB 15K Magazine LTU	TE939A*
HP 3PAR Virtual Domain V400/4x600GB 15K Magazine LTU	TE940A*
HP 3PAR Virtual Domain V800/4x100GB SSD Magazine LTU	TE941A*
HP 3PAR Virtual Domain V800/4x200GB SSD Magazine LTU	TE942A*
HP 3PAR Virtual Domain V800/4x2TB 7.2K Magazine LTU	TE943A*
HP 3PAR Virtual Domain V800/4x300GB 15K Magazine LTU	TE944A*
HP 3PAR Virtual Domain V800/4x600GB 15K Magazine LTU	TE945A*
HP 3PAR Virtual Domain F200/4x300GB SAS LTU	BC643A*
HP 3PAR Virtual Domain F200/4x450GB SAS LTU	BC644A*
HP 3PAR Virtual Domain F200/4x900GB SAS LTU	BC645A*
HP 3PAR Virtual Domain F200/4x2TB SAS LTU	BC646A*
HP 3PAR Virtual Domain F400/4x300GB SAS LTU	BC647A*
HP 3PAR Virtual Domain F400/4x450GB SAS LTU	BC648A*
HP 3PAR Virtual Domain F400/4x900GB SAS LTU	BC649A*
HP 3PAR Virtual Domain F400/4x2TB SAS LTU	BC650A*
HP 3PAR Virtual Domain T400/4x300GB SAS LTU	BC651A*
HP 3PAR Virtual Domain T400/4x450GB SAS LTU	BC652A*
HP 3PAR Virtual Domain T400/4x900GB SAS LTU	BC653A*
HP 3PAR Virtual Domain T400/4x2TB SAS LTU	BC654A*
HP 3PAR Virtual Domain T800/4x300GB SAS LTU	BC655A*
HP 3PAR Virtual Domain T800/4x450GB SAS LTU	BC656A*
HP 3PAR Virtual Domain T800/4x900GB SAS LTU	BC657A*
HP 3PAR Virtual Domain T800/4x2TB SAS LTU	BC658A*
HP 3PAR Virtual Domain V400/4x300GB SAS LTU	BC659A*
HP 3PAR Virtual Domain V400/4x450GB SAS LTU	BC660A*
HP 3PAR Virtual Domain V400/4x900GB SAS LTU	BC661A*
HP 3PAR Virtual Domain V400/4x2TB SAS LTU	BC662A*
HP 3PAR Virtual Domain V800/4x300GB SAS LTU	BC663A*
HP 3PAR Virtual Domain V800/4x450GB SAS LTU	BC664A*
HP 3PAR Virtual Domain V800/4x900GB SAS LTU	BC665A*
HP 3PAR Virtual Domain V800/4x2TB SAS LTU	BC666A*
HP 3PAR 10400 Virtual Domain Software Base LTU	BD202A*
HP 3PAR 10400 Virtual Domain Software Magazine LTU	BD213A*
HP 3PAR 10800 Virtual Domain Software Base LTU	BD224A*
HP 3PAR 10800 Virtual Domain Software Magazine LTU	BD235A*
HP 3PAR 7200 Virtual Domains Software Base LTU	BC763A*
HP 3PAR 7200 Virtual Domains Software Drive LTU	BC764A*
HP 3PAR 7400 Virtual Domains Software Base LTU	BC791A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR 7400 Virtual Domains Software Drive LTU	BC792A*
HP 3PAR 7450 Virtual Dom Base LTU	BC910A*
HP 3PAR 7450 Virtual Dom Drive LTU	BC911A*
HP 3PAR Virtual Domains 10400/4x400GB SSD LTU	BC966A*
HP 3PAR Virtual Domains 10800/4x400GB SSD LTU	BC977A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

NOTE: Physical software licenses for T-Class are available only in China. All other regions are expected to order E-delivery licenses only

Product Highlights

- Provides secure, isolated storage (virtual private arrays) to multiple applications, departments, and customers
- Delivers the robust service levels available from a wide-striped, massively parallel array without sacrificing security
- Retains the economic benefits of a virtualized storage infrastructure and storage consolidation
- Enables users or departments to securely and independently administer their own individual virtual private arrays
- Integrates fully with all HP 3PAR OS software products and features including 3PAR Remote Copy, System Reporter, LDAP support, and Autonomic Groups

HP 3PAR Virtual Lock Software

Overview

The need for secure data retention is a fact of doing business in the information age. HP 3PAR Virtual Lock gives you an efficient and cost-effective way to comply with internal governance and provides a foundation for performing electronic discovery (eDiscovery).

HP 3PAR Virtual Lock prevents deletion of virtual volumes (including thin volumes created with HP 3PAR Thin Provisioning software) and volume copies (such as those created with HP 3PAR Virtual Copy or HP 3PAR Full Copy software) for a specified period of time. Applying a user-configurable retention period, Virtual Lock secures volumes and copies so they cannot be deleted, even by a HP 3PAR Store Serv user with the highest level privileges.

When coupled with reservationless, non-duplicative, read-only virtual copies (snapshots), Virtual Lock enables you to retain frozen, point-in-time copies of your data to assist internal data retention and simplify compliance with internal governance procedures.

Models

HP 3PAR Virtual Lock F200/4x146GB 15K Magazine LTU	TE261B*
HP 3PAR Virtual Lock F200/4x1TB NL Magazine LTU	TE273B*
HP 3PAR Virtual Lock F200/4x2TB NL Magazine LTU	TE392B*
HP 3PAR Virtual Lock F200/4x300GB 15K Magazine LTU	TE265B*
HP 3PAR Virtual Lock F200/4x400GB 10K Magazine LTU	TE269B*
HP 3PAR Virtual Lock F200/4x450GB 15K Magazine LTU	TE277B*
HP 3PAR Virtual Lock F200/4x50GB SSD Magazine LTU	TE305B*
HP 3PAR Virtual Lock F200/4x600GB 15K Magazine LTU	TE333B*
HP 3PAR Virtual Lock F400/4x146GB 15K Magazine LTU	TE262B*
HP 3PAR Virtual Lock F400/4x1TB NL Magazine LTU	TE274B*
HP 3PAR Virtual Lock F400/4x2TB NL Magazine LTU	TE393B*
HP 3PAR Virtual Lock F400/4x300GB 15K Magazine LTU	TE266B*



Product Specifications - HP 3PAR OS Host Software

HP 3PAR Virtual Lock F400/4x400GB 10K Magazine LTU	TE270B*
HP 3PAR Virtual Lock F400/4x450GB 15K Magazine LTU	TE278B*
HP 3PAR Virtual Lock F400/4x50GB SSD Magazine LTU	TE306B*
HP 3PAR Virtual Lock F400/4x600GB 15K Magazine LTU	TE334B*
HP 3PAR Virtual Lock F200/4x100GB SSD Magazine LTU	TE775B*
HP 3PAR Virtual Lock F400/4x100GB SSD Magazine LTU	TE776B*
HP 3PAR Virtual Lock F200/4x200GB SSD Magazine LTU	TE803B*
HP 3PAR Virtual Lock F400/4x200GB SSD Magazine LTU	TE804B*
HP 3PAR Virtual Lock 90-Day Evaluation LTU	TE258B*
HP 3PAR Virtual Lock T400/4x146GB 15K Magazine LTU	TE263B*
HP 3PAR Virtual Lock T400/4x1TB NL Magazine LTU	TE275B*
HP 3PAR Virtual Lock T400/4x2TB NL Magazine LTU	TE394B*
HP 3PAR Virtual Lock T400/4x300GB 15K Magazine LTU	TE267B*
HP 3PAR Virtual Lock T400/4x400GB 10K Magazine LTU	TE271B*
HP 3PAR Virtual Lock T400/4x450GB 15K Magazine LTU	TE279B*
HP 3PAR Virtual Lock T400/4x50GB SSD Magazine LTU	TE307B*
HP 3PAR Virtual Lock T400/4x600GB 15K Magazine LTU	TE335B*
HP 3PAR Virtual Lock T400/4x750GB NL Magazine LTU	TE259B*
HP 3PAR Virtual Lock T800/4x146GB 15K Magazine LTU	TE264B*
HP 3PAR Virtual Lock T800/4x1TB NL Magazine LTU	TE276B*
HP 3PAR Virtual Lock T800/4x2TB NL Magazine LTU	TE395B*
HP 3PAR Virtual Lock T800/4x300GB 15K Magazine LTU	TE268B*
HP 3PAR Virtual Lock T800/4x400GB 10K Magazine LTU	TE272B*
HP 3PAR Virtual Lock T800/4x450GB 15K Magazine LTU	TE280B*
HP 3PAR Virtual Lock T800/4x50GB SSD Magazine LTU	TE308B*
HP 3PAR Virtual Lock T800/4x600GB 15K Magazine LTU	TE336B*
HP 3PAR Virtual Lock T800/4x750GB NL Magazine LTU	TE260B*
HP 3PAR Virtual Lock T400/4x100GB SSD Magazine LTU	TE777B*
HP 3PAR Virtual Lock T800/4x100GB SSD Magazine LTU	TE778B*
HP 3PAR Virtual Lock T400/4x200GB SSD Magazine LTU	TE805B*
HP 3PAR Virtual Lock T800/4x200GB SSD Magazine LTU	TE806B*
HP 3PAR Virtual Lock V400/4x100GB SSD Magazine LTU	TE946A*
HP 3PAR Virtual Lock V400/4x200GB SSD Magazine LTU	TE947A*
HP 3PAR Virtual Lock V400/4x2TB 7.2K Magazine LTU	TE948A*
HP 3PAR Virtual Lock V400/4x300GB 15K Magazine LTU	TE949A*
HP 3PAR Virtual Lock V400/4x600GB 15K Magazine LTU	TE950A*
HP 3PAR Virtual Lock V800/4x100GB SSD Magazine LTU	TE951A*
HP 3PAR Virtual Lock V800/4x200GB SSD Magazine LTU	TE952A*
HP 3PAR Virtual Lock V800/4x2TB 7.2K Magazine LTU	TE953A*
HP 3PAR Virtual Lock V800/4x300GB 15K Magazine LTU	TE954A*
HP 3PAR Virtual Lock V800/4x600GB 15K Magazine LTU	TE955A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Virtual Lock F200/4x300GB SAS LTU	BC667A*
HP 3PAR Virtual Lock F200/4x450GB SAS LTU	BC668A*
HP 3PAR Virtual Lock F200/4x900GB SAS LTU	BC669A*
HP 3PAR Virtual Lock F200/4x2TB SAS LTU	BC670A*
HP 3PAR Virtual Lock F400/4x300GB SAS LTU	BC671A*
HP 3PAR Virtual Lock F400/4x450GB SAS LTU	BC672A*
HP 3PAR Virtual Lock F400/4x900GB SAS LTU	BC673A*
HP 3PAR Virtual Lock F400/4x2TB SAS LTU	BC674A*
HP 3PAR Virtual Lock T400/4x300GB SAS LTU	BC675A*
HP 3PAR Virtual Lock T400/4x450GB SAS LTU	BC676A*
HP 3PAR Virtual Lock T400/4x900GB SAS LTU	BC677A*
HP 3PAR Virtual Lock T400/4x2TB SAS LTU	BC678A*
HP 3PAR Virtual Lock T800/4x300GB SAS LTU	BC679A*
HP 3PAR Virtual Lock T800/4x450GB SAS LTU	BC680A*
HP 3PAR Virtual Lock T800/4x900GB SAS LTU	BC681A*
HP 3PAR Virtual Lock T800/4x2TB SAS LTU	BC682A*
HP 3PAR Virtual Lock V400/4x300GB SAS LTU	BC683A*
HP 3PAR Virtual Lock V400/4x450GB SAS LTU	BC684A*
HP 3PAR Virtual Lock V400/4x900GB SAS LTU	BC685A*
HP 3PAR Virtual Lock V400/4x2TB SAS LTU	BC686A*
HP 3PAR Virtual Lock V800/4x300GB SAS LTU	BC687A*
HP 3PAR Virtual Lock V800/4x450GB SAS LTU	BC688A*
HP 3PAR Virtual Lock V800/4x900GB SAS LTU	BC689A*
HP 3PAR Virtual Lock V800/4x2TB SAS LTU	BC690A*
HP 3PAR 10400 Virtual Lock Software Base LTU	BD203A*
HP 3PAR 10400 Virtual Lock Software Magazine LTU	BD214A*
HP 3PAR 10800 Virtual Lock Software Base LTU	BD225A*
HP 3PAR 10800 Virtual Lock Software Magazine LTU	BD236A*
HP 3PAR 7200 Virtual Lock Software Base LTU	BC765A*
HP 3PAR 7200 Virtual Lock Software Drive LTU	BC766A*
HP 3PAR 7400 Virtual Lock Software Base LTU	BC793A*
HP 3PAR 7400 Virtual Lock Software Drive LTU	BC794A*
HP 3PAR 7450 Virtual Lock Base LTU	BC912A*
HP 3PAR 7450 Virtual Lock Drive LTU	BC913A*
HP 3PAR Virtual Lock 10400/4x400GB SSD LTU	BC967A*
HP 3PAR Virtual Lock 10800/4x400GB SSD LTU	BC978A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

NOTE: Physical software licenses for T-Class are available only in China. All other regions are expected to order E-delivery licenses only

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Peer Motion

Overview

HP 3PAR Peer Motion Software is the first non-disruptive, do-it-yourself data migration tool for enterprise Storage Area Networks. With Peer Motion, HP 3PAR StoreServ Storage System customers can load balance I/O workloads across systems at will, perform technology refresh seamlessly, cost-optimize asset lifecycle management, and lower technology refresh capital expenditure. Unlike traditional block migration approaches, Peer Motion enables customers to migrate storage volumes between any HP 3PAR StoreServ Storage Systems online, non-disruptively, and without complex planning or dependency on extra tools. Peer Motion leverages HP 3PAR Thin Built In™ technology to power the simple and rapid conversion of inefficient, "fat" volumes on source arrays to more efficient, higher-utilization "thin" volumes on the destination HP 3PAR StoreServ Storage System. Peer Motion Manager is an add-on application that orchestrates all stages of the data migration lifecycle to ensure data migration is simple and fool-proof.

Models

HP 3PAR Peer Motion F200/4x100GB SSD Magazine LTU	TE855B*
HP 3PAR Peer Motion F200/4x1TB 7.2K Magazine LTU	TE856B*
HP 3PAR Peer Motion F200/4x200GB SSD Magazine LTU	TE857B*
HP 3PAR Peer Motion F200/4x2TB 7.2K Magazine LTU	TE858B*
HP 3PAR Peer Motion F200/4x300GB 15K Magazine LTU	TE859B*
HP 3PAR Peer Motion F200/4x400GB 10K Magazine LTU	TE860B*
HP 3PAR Peer Motion F200/4x450GB 15K Magazine LTU	TE861B*
HP 3PAR Peer Motion F200/4x50GB SSD Magazine LTU	TE862B*
HP 3PAR Peer Motion F200/4x600GB 15K Magazine LTU	TE863B*
HP 3PAR Peer Motion F400/4x100GB SSD Magazine LTU	TE864B*
HP 3PAR Peer Motion F400/4x1TB 7.2K Magazine LTU	TE865B*
HP 3PAR Peer Motion F400/4x200GB SSD Magazine LTU	TE866B*
HP 3PAR Peer Motion F400/4x2TB 7.2K Magazine LTU	TE867B*
HP 3PAR Peer Motion F400/4x300GB 15K Magazine LTU	TE868B*
HP 3PAR Peer Motion F400/4x400GB 10K Magazine LTU	TE869B*
HP 3PAR Peer Motion F400/4x450GB 15K Magazine LTU	TE870B*
HP 3PAR Peer Motion F400/4x50GB SSD Magazine LTU	TE871B*
HP 3PAR Peer Motion F400/4x600GB 15K Magazine LTU	TE872B*
HP 3PAR Peer Motion T400/4x100GB SSD Magazine LTU	TE873B*
HP 3PAR Peer Motion T400/4x1TB 7.2K Magazine LTU	TE874B*
HP 3PAR Peer Motion T400/4x200GB SSD Magazine LTU	TE875B*
HP 3PAR Peer Motion T400/4x2TB 7.2K Magazine LTU	TE876B*
HP 3PAR Peer Motion T400/4x300GB 15K Magazine LTU	TE877B*
HP 3PAR Peer Motion T400/4x400GB 10K Magazine LTU	TE878B*
HP 3PAR Peer Motion T400/4x450GB 15K Magazine LTU	TE879B*
HP 3PAR Peer Motion T400/4x50GB SSD Magazine LTU	TE880B*
HP 3PAR Peer Motion T400/4x600GB 15K Magazine LTU	TE881B*
HP 3PAR Peer Motion T400/4x750GB NL Magazine LTU	TE882B*
HP 3PAR Peer Motion T800/4x100GB SSD Magazine LTU	TE883B*
HP 3PAR Peer Motion T800/4x1TB 7.2K Magazine LTU	TE884B*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Peer Motion T800/4x200GB SSD Magazine LTU	TE885B*
HP 3PAR Peer Motion T800/4x2TB 7.2K Magazine LTU	TE886B*
HP 3PAR Peer Motion T800/4x300GB 15K Magazine LTU	TE887B*
HP 3PAR Peer Motion T800/4x400GB 10K Magazine LTU	TE888B*
HP 3PAR Peer Motion T800/4x450GB 15K Magazine LTU	TE889B*
HP 3PAR Peer Motion T800/4x50GB SSD Magazine LTU	TE890B*
HP 3PAR Peer Motion T800/4x600GB 15K Magazine LTU	TE891B*
HP 3PAR Peer Motion T800/4x750GB NL Magazine LTU	TE892B*
HP 3PAR Peer Motion V400/4x100GB SSD Magazine LTU	TE893A*
HP 3PAR Peer Motion V400/4x200GB SSD Magazine LTU	TE894A*
HP 3PAR Peer Motion V400/4x2TB 7.2K Magazine LTU	TE895A*
HP 3PAR Peer Motion V400/4x300GB 15K Magazine LTU	TE896A*
HP 3PAR Peer Motion V400/4x600GB 15K Magazine LTU	TE897A*
HP 3PAR Peer Motion V800/4x100GB SSD Magazine LTU	TE898A*
HP 3PAR Peer Motion V800/4x200GB SSD Magazine LTU	TE899A*
HP 3PAR Peer Motion V800/4x2TB 7.2K Magazine LTU	TE900A*
HP 3PAR Peer Motion V800/4x300GB 15K Magazine LTU	TE901A*
HP 3PAR Peer Motion V800/4x600GB 15K Magazine LTU	TE902A*
HP 3PAR Peer Motion F200/4x300GB SAS LTU	BC556A*
HP 3PAR Peer Motion F200/4x450GB SAS LTU	BC556A*
HP 3PAR Peer Motion F200/4x900GB SAS LTU	BC557A*
HP 3PAR Peer Motion F200/4x2TB SAS LTU	BC558A*
HP 3PAR Peer Motion F400/4x300GB SAS LTU	BC559A*
HP 3PAR Peer Motion F400/4x450GB SAS LTU	BC560A*
HP 3PAR Peer Motion F400/4x900GB SAS LTU	BC561A*
HP 3PAR Peer Motion F400/4x2TB SAS LTU	BC562A*
HP 3PAR Peer Motion T400/4x300GB SAS LTU	BC563A*
HP 3PAR Peer Motion T400/4x450GB SAS LTU	BC564A*
HP 3PAR Peer Motion T400/4x900GB SAS LTU	BC565A*
HP 3PAR Peer Motion T400/4x2TB SAS LTU	BC566A*
HP 3PAR Peer Motion T800/4x300GB SAS LTU	BC567A*
HP 3PAR Peer Motion T800/4x450GB SAS LTU	BC568A*
HP 3PAR Peer Motion T800/4x900GB SAS LTU	BC569A*
HP 3PAR Peer Motion T800/4x2TB SAS LTU	BC570A*
HP 3PAR Peer Motion V400/4x300GB SAS LTU	BC571A*
HP 3PAR Peer Motion V400/4x450GB SAS LTU	BC572A*
HP 3PAR Peer Motion V400/4x900GB SAS LTU	BC573A*
HP 3PAR Peer Motion V400/4x2TB SAS LTU	BC574A*
HP 3PAR Peer Motion V800/4x300GB SAS LTU	BC575A*
HP 3PAR Peer Motion V800/4x450GB SAS LTU	BC576A*
HP 3PAR Peer Motion V800/4x900GB SAS LTU	BC577A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Peer Motion V800/4x2TB SAS LTU	BC578A*
HP 3PAR 10400 Peer Motion Software Base LTU	BD201A*
HP 3PAR 10400 Peer Motion Software Magazine LTU	BD212A*
HP 3PAR 10800 Peer Motion Software Base LTU	BD223A*
HP 3PAR 10800 Peer Motion Software Magazine LTU	BD234A*
HP 3PAR 7200 Peer Motion Software Base LTU	BC761A*
HP 3PAR 7200 Peer Motion Software Drive LTU	BC762A*
HP 3PAR 7400 Peer Motion Software Base LTU	BC789A*
HP 3PAR 7400 Peer Motion Software Drive LTU	BC790A*
HP 3PAR 7450 Peer Motion Base LTU	BC906A*
HP 3PAR 7450 Peer Motion Drive LTU	BC907A*
HP 3PAR Peer Motion 10400/4x400GB SSD LTU	BC964A*
HP 3PAR Peer Motion 10800/4x400GB SSD LTU	BC975A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

NOTE: Physical software licenses for T-Class are available only in China. All other regions are expected to order E-delivery licenses only

HP 3PAR Online Import Software

Overview

HP 3PAR Online Import Software is the first non-disruptive, do-it-yourself data migration tool for enterprise Storage Area Networks. Unlike traditional block migration approaches, Online Import Software enables customers to migrate storage volumes from HP EVA Storage to HP 3PAR StoreServ Storage systems online, non-disruptively, and without complex planning or dependency on extra tools.

Models

HP 3PAR 7200 Online Import Software 180 day LTU	BD191A*
HP 3PAR 7400 Online Import Software 180 day LTU	BD192A*
HP 3PAR 7450 Online Import Software 180 day LTU	BD195A*
HP 3PAR 10400 Online Import Software 180 day LTU	BD194A*
HP 3PAR 10800 Online Import Software 180 day LTU	BD193A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Priority Optimization

Overview

HP 3PAR Priority Optimization software allows customers to ensure quality of service on HP 3PAR StoreServ Storage Systems. With HP 3PAR Priority Optimization, HP 3PAR StoreServ customers can protect their tenants and environments from unpredictable burst of I/O and maintain predictable SLA for multiple tenants. HP 3PAR Priority Optimization enables maximum performance threshold for front-end IOPS or Bandwidth or both to be configured for application workloads via HP 3PAR Autonomic Groups. HP 3PAR Priority Optimization also allows customers to set latency goals for their tenants and workloads, the systems will be prioritizing these gold workloads while throttling user-defined less critical volumes in order to meet latency SLAs.

HP 3PAR Priority Optimization control is implemented within the HP 3PAR StoreServ Storage System and can be modified in real time. No host agents are required. Further, no physical partitioning of resources

Product Specifications - HP 3PAR OS Host Software

Models		
	within the storage array is required.	
	HP 3PAR Priority Optimization Software 90-Day Evaluation LTU	BC992A*
	HP 3PAR Priority Optimization Software F200/4x300GB 15K Magazine LTU	BC995A*
	HP 3PAR Priority Optimization Software F400/4x300GB 15K Magazine LTU	BC996A*
	HP 3PAR Priority Optimization Software F200/4x1TB NL Magazine LTU	BC999A*
	HP 3PAR Priority Optimization Software F400/4x1TB NL Magazine LTU	BD100A*
	HP 3PAR Priority Optimization Software F200/4x600GB 15K Magazine LTU	BD105A*
	HP 3PAR Priority Optimization Software F400/4x600GB 15K Magazine LTU	BD106A*
	HP 3PAR Priority Optimization Software F200/4x2TB NL Magazine LTU	BD107A*
	HP 3PAR Priority Optimization Software F400/4x2TB NL Magazine LTU	BD108A*
	HP 3PAR Priority Optimization Software F200/4x100GB SSD Magazine LTU	BD109A*
	HP 3PAR Priority Optimization Software F400/4x100GB SSD Magazine LTU	BD110A*
	HP 3PAR Priority Optimization Software F200/4x200GB SSD Magazine LTU	BD111A*
	HP 3PAR Priority Optimization Software F400/4x200GB SSD Magazine LTU	BD112A*
	HP 3PAR Priority Optimization Software 10400/4x100GB SSD Magazine LTU	BD135A*
	HP 3PAR Priority Optimization Software 10800/4x100GB SSD Magazine LTU	BD136A*
	HP 3PAR Priority Optimization Software 10400/4x200GB SSD Magazine LTU	BD137A*
	HP 3PAR Priority Optimization Software 10800/4x200GB SSD Magazine LTU	BD138A*
	HP 3PAR Priority Optimization Software 10400/4x2TB 7.2K Magazine LTU	BD139A*
	HP 3PAR Priority Optimization Software 10800/4x2TB 7.2K Magazine LTU	BD140A*
	HP 3PAR Priority Optimization Software 10400/4x300GB 15K Magazine LTU	BD141A*
	HP 3PAR Priority Optimization Software 10800/4x300GB 15K Magazine LTU	BD142A*
	HP 3PAR Priority Optimization Software 10400/4x600GB 15K Magazine LTU	BD143A*
	HP 3PAR Priority Optimization Software 10800/4x600GB 15K Magazine LTU	BD144A*
	HP 3PAR Priority Optimization Software 10400/4x1TB 7.2K Magazine LTU	BD145A*
	HP 3PAR Priority Optimization Software 10800/4x1TB 7.2K Magazine LTU	BD146A*
	HP 3PAR Priority Optimization Software F200/4x146GB Magazine LTU	BC993A*
	HP 3PAR Priority Optimization Software F400/4x146GB Magazine LTU	BC994A*
	HP 3PAR Priority Optimization Software F200/4x400GB Magazine LTU	BC997A*
	HP 3PAR Priority Optimization Software F400/4x400GB Magazine LTU	BC998A*
	HP 3PAR Priority Optimization Software F200/4x450GB Magazine LTU	BD101A*
	HP 3PAR Priority Optimization Software F400/4x450GB Magazine LTU	BD102A*
	HP 3PAR Priority Optimization Software F200/4x50GB SSD Magazine LTU	BD103A*
	HP 3PAR Priority Optimization Software F400/4x50GB SSD Magazine LTU	BD104A*
	HP 3PAR Priority Optimization Software T400/4x750GB NL Magazine LTU	BD113A*
	HP 3PAR Priority Optimization Software T800/4x750GB NL Magazine LTU	BD114A*
	HP 3PAR Priority Optimization Software T400/4x146GB 15K Magazine LTU	BD115A*
	HP 3PAR Priority Optimization Software T800/4x146GB 15K Magazine LTU	BD116A*
	HP 3PAR Priority Optimization Software T400/4x400GB 10K Magazine LTU	BD117A*
	HP 3PAR Priority Optimization Software T800/4x400GB 10K Magazine LTU	BD118A*
	HP 3PAR Priority Optimization Software T400/4x300GB 15K Magazine LTU	BD119A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Priority Optimization Software T800/4x300GB 15K Magazine LTU	BD120A*
HP 3PAR Priority Optimization Software T400/4x1TB NL Magazine LTU	BD121A*
HP 3PAR Priority Optimization Software T800/4x1TB NL Magazine LTU	BD122A*
HP 3PAR Priority Optimization Software T400/4x450GB 15K Magazine LTU	BD123A*
HP 3PAR Priority Optimization Software T800/4x450GB 15K Magazine LTU	BD124A*
HP 3PAR Priority Optimization Software T400/4x50GB SSD Magazine LTU	BD125A*
HP 3PAR Priority Optimization Software T800/4x50GB SSD Magazine LTU	BD126A*
HP 3PAR Priority Optimization Software T400/4x600GB 15K Magazine LTU	BD127A*
HP 3PAR Priority Optimization Software T800/4x600GB 15K Magazine LTU	BD128A*
HP 3PAR Priority Optimization Software T400/4x2TB NL Magazine LTU	BD129A*
HP 3PAR Priority Optimization Software T800/4x2TB NL Magazine LTU	BD130A*
HP 3PAR Priority Optimization Software T400/4x100GB SSD Magazine LTU	BD131A*
HP 3PAR Priority Optimization Software T800/4x100GB SSD Magazine LTU	BD132A*
HP 3PAR Priority Optimization Software T400/4x200GB SSD Magazine LTU	BD133A*
HP 3PAR Priority Optimization Software T800/4x200GB SSD Magazine LTU	BD134A*
HP 3PAR Priority Optimization Software F200 4x300GB SFF 15K SAS Magazine LTU	BD147A*
HP 3PAR Priority Optimization Software F200 4x450GB SFF 15K SAS Magazine LTU	BD148A*
HP 3PAR Priority Optimization Software F200 4x900GB SFF 15K SAS Magazine LTU	BD149A*
HP 3PAR Priority Optimization Software F200 4x2TB LFF 7.2K SAS Magazine LTU	BD150A*
HP 3PAR Priority Optimization Software F400 4x300GB SFF 15K SAS Magazine LTU	BD151A*
HP 3PAR Priority Optimization Software F400 4x450GB SFF 15K SAS Magazine LTU	BD152A*
HP 3PAR Priority Optimization Software F400 4x900GB SFF 15K SAS Magazine LTU	BD153A*
HP 3PAR Priority Optimization Software F400 4x2TB LFF 7.2K SAS Magazine LTU	BD154A*
HP 3PAR Priority Optimization Software 10400 4x300GB SFF 15K SAS Magazine LTU	BD155A*
HP 3PAR Priority Optimization Software 10400 4x450GB SFF 15K SAS Magazine LTU	BD156A*
HP 3PAR Priority Optimization Software 10400 4x900GB SFF 15K SAS Magazine LTU	BD157A*
HP 3PAR Priority Optimization Software 10400 4x2TB LFF 7.2K SAS Magazine LTU	BD158A*
HP 3PAR Priority Optimization Software 10800 4x300GB SFF 15K SAS Magazine LTU	BD159A*
HP 3PAR Priority Optimization Software 10800 4x450GB SFF 15K SAS Magazine LTU	BD160A*
HP 3PAR Priority Optimization Software 10800 4x900GB SFF 15K SAS Magazine LTU	BD161A*
HP 3PAR Priority Optimization Software 10800 4x2TB LFF 7.2K SAS Magazine LTU	BD162A*
HP 3PAR Priority Optimization Software T400/4x300GB 15K SFF SAS Magazine LTU	BD163A*
HP 3PAR Priority Optimization Software T400/4x450GB 10K SFF SAS Magazine LTU	BD164A*
HP 3PAR Priority Optimization Software T400/4x900GB 10K SFF SAS Magazine LTU	BD165A*
HP 3PAR Priority Optimization Software T400/4x2TB 7.2K LFF SAS Magazine LTU	BD166A*
HP 3PAR Priority Optimization Software T800/4x300GB 15K SFF SAS Magazine LTU	BD167A*
HP 3PAR Priority Optimization Software T800/4x450GB 10K SFF SAS Magazine LTU	BD168A*
HP 3PAR Priority Optimization Software T800/4x900GB 10K SFF SAS Magazine LTU	BD169A*
HP 3PAR Priority Optimization Software T800/4x2TB 7.2K LFF SAS Magazine LTU	BD170A*
HP 3PAR Priority Optimization Software 10400/4x400GB SSD Magazine LTU	BD175A*
HP 3PAR Priority Optimization Software 10800/4x400GB SSD Magazine LTU	BD176A*

Product Specifications - HP 3PAR OS Host Software

HP 3PAR 10400 Priority Optimization Software Base LTU	BD206A*
HP 3PAR 10400 Priority Optimization Software Magazine LTU	BD217A*
HP 3PAR 10800 Priority Optimization Software Base LTU	BD228A*
HP 3PAR 10800 Priority Optimization Software Magazine LTU	BD239A*
HP 3PAR 7200 Priority Optimization Base LTU	BC986A*
HP 3PAR 7200 Priority Optimization Drive LTU	BC987A*
HP 3PAR 7400 Priority Optimization Base LTU	BC988A*
HP 3PAR 7400 Priority Optimization Drive LTU	BC989A*
HP 3PAR 7450 Priority Optimization Base LTU	BC990A*
HP 3PAR 7450 Priority Optimization Drive LTU	BC991A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Host Software

Overview

The following host-based software products from HP 3PAR® address the needs of specific application environments through solutions like application-aware backup and recovery capabilities, plug-ins for virtualization management, multipathing and historical performance and capacity management.

HP 3PAR Recovery Manager for VMware vSphere: 3PAR Recovery Manager for VMware vSphere allows VMware administrators to create hundreds of VM-aware snapshots and initiate rapid online recovery directly from within the VMware vCenter™ Server virtualization management console.

HP 3PAR Recovery Manager for Microsoft Exchange: 3PAR Recovery Manager for Exchange is an extension to 3PAR Virtual Copy that intelligently creates and manages snapshots that can be used to quickly restore Exchange instances or databases (or non-disruptively back them up to tape) for near-continuous data protection.

HP 3PAR Recovery Manager for Oracle: 3PAR Recovery Manager for Oracle is an extension to 3PAR Virtual Copy that intelligently creates, manages, and presents time-consistent snapshot images of Oracle® databases for rapid application recovery, near-continuous data protection, data sharing, and non-disruptive backup.

HP 3PAR Recovery Manager for Microsoft SQL Server: 3PAR Recovery Manager for Microsoft SQL Server is another extension to 3PAR Virtual Copy that eases costs and administration by providing rapid, affordable online recovery of Microsoft® SQL Server databases from multiple, highly granular point-in-time snapshots. Quickly recover a database to a known point in time, speeding up a variety of operations including rapid recovery of the production SQL server.

HP 3PAR Plug-In for VMware vCenter: The 3PAR Plug-In for VMware vCenter gives VMware administrators enhanced visibility into storage resources and precise insight into how individual virtual machines are mapped to datastores and individual storage volumes. When used in conjunction with 3PAR Recovery Manager for VMware vSphere, this plug-in gives administrators the power of seamless, rapid online recovery from within the vCenter Server virtualization management console.

Models

HP 3PAR Recovery Manager Exchange F200 LTU	TE216B*
HP 3PAR Recovery Manager Exchange F400 LTU	TE217B*
HP 3PAR Recovery Manager Exchange 90-Day Evaluation LTU (F-Class)	TE086B*



Product Specifications - HP 3PAR OS Host Software

HP 3PAR Recovery Manager Exchange T400 LTU	TE098B*
HP 3PAR Recovery Manager Exchange T800 LTU	TE099B*
HP 3PAR Recovery Manager Exchange 90-Day Evaluation LTU (T-Class)	TE086A
HP 3PAR Recovery Manager Exchange V400 LTU	TE903A*
HP 3PAR Recovery Manager Exchange V800 LTU	TE904A*
HP 3PAR Recovery Manager MS SQL F200 LTU	TE218B*
HP 3PAR Recovery Manager MS SQL F400 LTU	TE219B*
HP 3PAR Recovery Manager Oracle 90-Day Evaluation LTU (T-Class)	TE085B*
HP 3PAR Recovery Manager MS SQL T400 LTU	TE100B*
HP 3PAR Recovery Manager MS SQL T800 LTU	TE101B*
HP 3PAR Recovery Manager MS SQL V400 LTU	TE905A*
HP 3PAR Recovery Manager MS SQL V800 LTU	TE906A*
HP 3PAR Recovery Manager Oracle 90-Day Evaluation LTU (T-Class)	TE085A
HP 3PAR Recovery Manager Oracle F200 LTU	TE214B*
HP 3PAR Recovery Manager Oracle F400 LTU	TE215B*
HP 3PAR Recovery Manager SQL 90-Day Evaluation LTU (F-Class)	TE093B*
HP 3PAR Recovery Manager Oracle T400 LTU	TE096B*
HP 3PAR Recovery Manager Oracle T800 LTU	TE097B*
HP 3PAR Recovery Manager Oracle V400 LTU	TE907A*
HP 3PAR Recovery Manager Oracle V800 LTU	TE908A*
HP 3PAR Recovery Manager SQL 90-Day Evaluation LTU (T-Class)	TE093B*
HP 3PAR Recovery Manager vSphere F200 LTU	TE254B*
HP 3PAR Recovery Manager vSphere F400 LTU	TE255B*
HP 3PAR Recovery Manager vSphere 90-Day Evaluation LTU (F-Class)	TE253A
HP 3PAR Recovery Manager vSphere T400 LTU	TE256B*
HP 3PAR Recovery Manager vSphere T800 LTU	TE257B*
HP 3PAR Recovery Manager vSphere 90-Day Evaluation LTU (T-Class)	TE253A
HP 3PAR Recovery Manager vSphere V400 LTU	TE909A*
HP 3PAR Recovery Manager vSphere V800 LTU	TE910A*
HP 3PAR Recovery Manager for Hyper-V F200 Media LTU	BD180A*
HP 3PAR Recovery Manager for Hyper-V F400 Media LTU	BD181A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR System Reporter: System Reporter is a historical performance and capacity management tool for storage reporting, monitoring, and troubleshooting.

HP 3PAR Host Explorer: Running as an agent on the server, 3PAR Host Explorer automates host discovery and collection of detailed host configuration information critical to speeding provisioning and simplifying maintenance. Host Explorer automatically and securely communicates host information such as Fibre Channel Worldwide Name (WWN) and host multipath data to the InServ to reduce manual administration.

Product Specifications - HP 3PAR OS Host Software

HP 3PAR Multipath I/O for IBM AIX: 3PAR MPIO for IBM AIX provides multipathing for IBM®AIX® hosts featuring multiple active/active paths, load balancing, and automatic failover and recovery.

HP 3PAR Multipath I/O for Microsoft Windows 2003: 3PAR MPIO for Microsoft Windows 2003 provides multipathing for Microsoft Windows® hosts featuring multiple active/active paths, load balancing, and automatic failover and recovery.

Models		
	HP 3PAR System Reporter Eval LTU	TE089B*
	HP 3PAR System Reporter T400 LTU	TE104B*
	HP 3PAR System Reporter T800 LTU	TE105B*
	HP 3PAR System Reporter F200 LTU	TE220B*
	HP 3PAR System Reporter F400 LTU	TE221B*
	HP 3PAR System Reporter V400 LTU	TE921A*
	HP 3PAR System Reporter V800 LTU	TE922A*
	HP 3PAR Host Explorer SW Media Kit	TE250B*
	HP 3PAR MPIO Microsoft Windows Eval LTU	TE090B*
	HP 3PAR MPIO for Microsoft Windows SW	TE083B*
	HP 3PAR MPIO for IBM AIX Eval LTU	TE091B*
	HP 3PAR MPIO for IBM AIX Media Kit	TE088B*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Cluster Extension Software: HP 3PAR Cluster Extension Software offers rapid automated protection against application downtime from fault, failure, or site disaster. CLX integrates with the Windows OS clustering software and HP 3PAR Remote Copy to automate failover and failback between sites. For more information see <http://h18006.www1.hp.com/storage/software/ces/index.html>

Models		
	HP 3PAR Cluster Extension Windows LTU	TC355A*
	HP 3PAR Cluster Extension Windows Array LTU**	BC885B*
	HP P6000 to 3PAR Cluster Extension Windows Node Upgrade LTU	BC887A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

** Please note that the current HP 3PAR CLX for Windows Array LTU/e-LTU will only support HP 3PAR CLX for Windows v4.0 and above

Technical Specifications

HP 3PAR StoreServ Software Suites

The HP 3PAR StoreServ Storage family including the HP 3PAR StoreServ 7000, 7450 and 10000 Storage now provide the opportunity for you to purchase software bundled into a series of suites designed to be affordable and simple to purchase. Select software titles can also be purchased separately, as indicated below.

HP 3PAR Operating System Software Suite

Overview

HP 3PAR Operating System Software Suite is the foundation software of HP 3PAR StoreServ Storage, combining advanced virtualization capabilities with simple storage management, high efficiency, and world class performance. The included comprehensive thin provisioning capabilities allow your storage to start thin, get thin and stay thin. System Tuner and Autonomic Rebalance help maintain high performance over time. Migrating your existing data from HP EVA and 3PAR systems to HP 3PAR StoreServ Storage is easy with the included 180 day Online Import license. HP 3PAR SmartStart Software, included in the suite for HP 3PAR StoreServ 7000 and 7450, guides you through the configuration of the service processor, StoreServ Storage and the application hosts - making storage setup virtually effortless. HP 3PAR Operating System Software Suite is a required purchase.

The Operating System Suite includes the following functionality and features:

- HP 3PAR Thin Provisioning
- HP 3PAR Thin Conversion
- HP 3PAR Thin Persistence
- HP 3PAR Thin Copy Reclamation
- HP 3PAR Autonomic Rebalance
- HP 3PAR System Tuner
- HP 3PAR Management Console
- EVA to 3PAR Online Import**
- HP 3PAR Host Explorer
- HP 3PAR SmartStart (not included in HP 3PAR StoreServ 10000)
- HP 3PAR Virtual Service Processor (not included in HP 3PAR StoreServ 10000)
- HP 3PAR Multipath Software for Windows 2003

For more information see

<http://h18006.www1.hp.com/storage/software/3par7000/oss/index.html>

Models

HP 3PAR 10400 Operating System Software Suite Media Base LTU	BD240A***
HP 3PAR 10400 Operating System Software Suite Magazine LTU	BD241A***
HP 3PAR 10800 Operating System Software Suite Media Base LTU	BD252A***
HP 3PAR 10800 Operating System Software Suite Magazine LTU	BD253A***
HP 3PAR 7200 Operating System Software Suite Base LTU	BC745A***
HP 3PAR 7200 Operating System Software Suite Drive LTU	BC746A***
HP 3PAR 7400 Operating System Software Suite Base LTU	BC773A***
HP 3PAR 7400 Operating System Software Suite Drive LTU	BC774A***
HP 3PAR 7450 OS Suite Base Media LTU	BC890A***
HP 3PAR 7450 OS Suite Drive LTU	BC891A***

*Included as part of the system

** 180 day Online Import license



Technical Specifications

***Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Optimization Suite

Overview

HP 3PAR Optimization Suite gives enterprise and cloud datacenters the ability to optimize service levels autonomically, on a large scale, and for a lower total cost than any other solution available today.

The Optimization Suite includes the following functionality and features:

- Adaptive Optimization
- Dynamic Optimization
- System Tuner

Models

The Optimization Suite is offered on HP 3PAR StoreServ 10000 Storage Systems.

HP 3PAR Optimization Suite V400/4x100GB SSD Magazine LTU	TE845A*
HP 3PAR Optimization Suite V400/4x200GB SSD Magazine LTU	TE846A*
HP 3PAR Optimization Suite V400/4x2TB 7.2K Magazine LTU	TE847A*
HP 3PAR Optimization Suite V400/4x300GB 15K Magazine LTU	TE848A*
HP 3PAR Optimization Suite V400/4x600GB 15K Magazine LTU	TE849A*
HP 3PAR Optimization Suite V800/4x100GB SSD Magazine LTU	TE850A*
HP 3PAR Optimization Suite V800/4x200GB SSD Magazine LTU	TE851A*
HP 3PAR Optimization Suite V800/4x2TB 7.2K Magazine LTU	TE852A*
HP 3PAR Optimization Suite V800/4x300GB 15K Magazine LTU	TE853A*
HP 3PAR Optimization Suite V800/4x600GB 15K Magazine LTU	TE854A*
HP 3PAR Optimization Suite V400/4x300GB SAS LTU	BC547A*
HP 3PAR Optimization Suite V400/4x450GB SAS LTU	BC548A*
HP 3PAR Optimization Suite V400/4x900GB SAS LTU	BC549A*
HP 3PAR Optimization Suite V400/4x2TB SAS LTU	BC550A*
HP 3PAR Optimization Suite V800/4x300GB SAS LTU	BC551A*
HP 3PAR Optimization Suite V800/4x450GB SAS LTU	BC552A*
HP 3PAR Optimization Suite V800/4x900GB SAS LTU	BC553A*
HP 3PAR Optimization Suite V800/4x2TB SAS LTU	BC554A*
HP 3PAR Optimization Suite 10400/4x400GB SSD LTU	BC969A*
HP 3PAR Optimization Suite 10800/4x400GB SSD LTU	BC980A*
HP 3PAR 10400 Optimization Software Suite Base LTU	BD276A*
HP 3PAR 10400 Optimization Software Suite Magazine LTU	BD277A*
HP 3PAR 10800 Optimization Software Suite Base LTU	BD278A*
HP 3PAR 10800 Optimization Software Suite Magazine LTU	BD279A*

* Insert AE at the end of a part number for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Data Optimization Software Suite

Overview

The HP 3PAR Data Optimization Software Suite makes sure that data is on the right



Technical Specifications

storage asset at the right time. This suite rebalances, redistributes and refreshes storage non-disruptively with features that provide autonomic storage tiering and dynamic data mobility, reducing cost and increasing agility. Adaptive Optimization provides 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 and Dynamic Optimization delivers it at the volume level. Peer Motion software enables seamless technology refresh and cost-optimized asset lifecycle management, and lowers technology refresh capital expenditure.

The Data Optimization Suite bundles the following products:

- HP 3PAR Adaptive Optimization
- HP 3PAR Dynamic Optimization
- HP 3PAR Peer Motion

For more information see

<http://h18006.www1.hp.com/storage/software/3par7000/dos/index.html>

Models

HP 3PAR 7200 Data Optimization Software Suite Base LTU	BC749A*
HP 3PAR 7200 Data Optimization Software Suite Drive LTU	BC750A*
HP 3PAR 7400 Data Optimization Software Suite Base LTU	BC777A*
HP 3PAR 7400 Data Optimization Software Suite Drive LTU	BC778A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Data Optimization Software Suite v2

Overview

The HP 3PAR Data Optimization Software Suite v2 combines capabilities that provide autonomic storage tiering and dynamic data mobility with assured quality of service. Adaptive Optimization provides 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 and Dynamic Optimization delivers it at the volume level. Peer Motion software enables seamless technology refresh and cost-optimized asset lifecycle management, and lowers technology refresh capital expenditure. Priority Optimization software allows customers to ensure quality of service on HP 3PAR StoreServ Storage Systems. With Priority Optimization, customers can protect their tenants and environments from unpredictable burst of I/O and maintain predictable SLA for multiple tenants. The Data Optimization Suite v2 bundles the following products:

The Data Optimization Suite v2 bundles the following products:

- HP 3PAR Adaptive Optimization
- HP 3PAR Dynamic Optimization
- HP 3PAR Priority Optimization
- HP 3PAR Peer Motion

The Data Optimization Software Suite is offered on HP 3PAR StoreServ 7000, 7450 and 10000 Storage Systems

Models

HP 3PAR 10400 Data Optimization Software Suite v2 Base LTU	BD264A*
HP 3PAR 10400 Data Optimization Software Suite v2 Magazine LTU	BD265A*
HP 3PAR 10800 Data Optimization Software Suite v2 Base LTU	BD266A*



Technical Specifications

HP 3PAR 10800 Data Optimization Software Suite v2 Magazine LTU	BD267A*
HP 3PAR 7200 Data Optimization Software Suite v2 Base LTU	BD268A*
HP 3PAR 7200 Data Optimization Software Suite v2 Drive LTU	BD269A*
HP 3PAR 7400 Data Optimization Software Suite v2 Base LTU	BD270A*
HP 3PAR 7400 Data Optimization Software Suite v2 Drive LTU	BD271A*
HP 3PAR 7450 Data Optimization Software Suite v2 Base LTU	BD272A*
HP 3PAR 7450 Data Optimization Software Suite v2 Drive LTU	BD273A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Replication Software Suite

Overview

The HP 3PAR Replication Software Suite offers automatic replication, transparent failover and Point-in-Time (PIT) copies enabling seamless disaster recovery for critical data. These features provide an agile, efficient and simple solution to protect against the unpredictable. This suite is ideal for virtualized data centers demanding data availability and business continuity 24x7. Remote Copy Software dramatically reduces the cost of remote data replication and disaster recovery by leveraging thin copy technology, enabling multi-site and multi-mode replication with both midrange and high-end arrays, and reducing the need for professional services. Virtual Copy enables rapid application recovery-while containing costs with a "thin-aware" implementation that minimizes the amount of physical capacity that is actually being consumed by your data-and without sacrificing performance, availability, or versatility. HP 3PAR Peer Persistence software enables HP 3PAR StoreServ systems located at metropolitan distances to act as peers to each other, presenting a nearly continuous storage system to VMware vSphere hosts connected to them.

The Replication Suite includes the following functionality and features:

- HP 3PAR Virtual Copy
- HP 3PAR Remote Copy
- HP 3PAR Peer Persistence

For more information see

<http://h18006.www1.hp.com/storage/software/3par7000/drs/index.html>

Models

HP 3PAR 10400 Replication Software Suite Base LTU	BD249A*
HP 3PAR 10400 Replication Software Suite Magazine LTU	BD250A*
HP 3PAR 10800 Replication Software Suite Base LTU	BD261A*
HP 3PAR 10800 Replication Software Suite Magazine LTU	BD262A*
HP 3PAR 10400 Replication Software Suite 1TB Provisioned LTU	BD251A*
HP 3PAR 10800 Replication Software Suite 1TB Provisioned LTU	BD263A*
HP 3PAR 7200 Replication Software Suite Base LTU	BC747A*
HP 3PAR 7200 Replication Software Suite Drive LTU	BC748A*
HP 3PAR 7400 Replication Software Suite Base LTU	BC775A*
HP 3PAR 7400 Replication Software Suite Drive LTU	BC776A*

Technical Specifications

HP 3PAR 7450 Repl Suite Base LTU	BC892A*
HP 3PAR 7450 Repl Suite Drive LTU	BC893A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Security Software Suite

Overview

HP 3PAR Security Software Suite provides secure administrative segregation of users and hosts, allowing individual user groups and applications to confidently share a HP 3PAR StoreServ Storage system. It also allows you to secure volumes and copies so they cannot be deleted, even by a HP 3PAR StoreServ Storage user with the highest level privileges. When coupled with reservationless, non-duplicative, read-only virtual copies (snapshots), the Virtual Lock feature enables you to retain frozen, point-in-time copies of your data to assist internal data retention and simplify compliance with internal governance procedures.

The Security Suite includes the following products:

- HP 3PAR Virtual Domains
- HP 3PAR Virtual Lock

For more information see

<http://h18006.www1.hp.com/storage/software/3par7000/ss/index.html>

Models

HP 3PAR 10400 Security Software Suite Base LTU	BD242A*
HP 3PAR 10400 Security Software Suite Magazine LTU	BD243A*
HP 3PAR 10800 Security Software Suite Base LTU	BD254A*
HP 3PAR 10800 Security Software Suite Magazine LTU	BD255A*
HP 3PAR 7200 Security Software Suite Base LTU	BC751A*
HP 3PAR 7200 Security Software Suite Drive LTU	BC752A*
HP 3PAR 7400 Security Software Suite Base LTU	BC779A*
HP 3PAR 7400 Security Software Suite Drive LTU	BC780A*
HP 3PAR 7450 Security St Base LTU	BC908A*
HP 3PAR 7450 Security Suite Drv LTU	BC909A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Reporting Software Suite

Overview

HP 3PAR Reporting Suite provides flexible, simple-to-use performance and capacity management tools that aggregate fine-grained, performance and capacity usage data. It also provides useful information on the volume mapping between the HP 3PAR StoreServ Storage and the application host.

The Reporting Suite includes the following products:

- HP 3PAR System Reporter
- HP 3PARinfo

Technical Specifications

For more information see

<http://h18006.www1.hp.com/storage/software/3par7000/rs/index.html>

Models	HP 3PAR 10400 Reporting Software Suite Media LTU	BD244A*
	HP 3PAR 10800 Reporting Software Suite Media LTU	BD256A*
	HP 3PAR 7200 Reporting Software Suite LTU	BC767A*
	HP 3PAR 7400 Reporting Software Suite LTU	BC795A*
	HP 3PAR 7450 Reporting Suite Media LTU	BC914A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Application Software Suite for VMware

Overview

HP 3PAR Application Suite for VMware provides VMware administrators enhanced visibility into storage resources and precise insight into how individual virtual machines are mapped to datastores and individual storage volumes. It also gives administrators the power of seamless, rapid online recovery from within the vCenter Server virtualization management console.

The Application Suite for VMware is now a part of Insight Control for vCenter. The Insight Control for vCenter now includes the following functionality and features:

- HP Server component
- HP Storage component - includes HP 3PAR VASA provider and HP 3PAR Management Plug-in for VMware vCenter
- HP 3PAR Recovery Manager for VMware vSphere

For more information see

<http://h18006.www1.hp.com/storage/software/3par7000/as-vmware/index.html>

Models	HP 3PAR 10400 Application Software Suite for VMware Media LTU	BD245A*
	HP 3PAR 10800 Application Software Suite for VMware Media LTU	BD257A*
	HP 3PAR 7200 Application Software Suite for VMware LTU	BC768A*
	HP 3PAR 7400 Application Software Suite for VMware LTU	BC796A*
	HP 3PAR 7450 App Suite VMware Media LTU	BC915A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Application Software Suite for Exchange

Overview

HP 3PAR Application Suite for Exchange provides administrators the power of seamless, rapid online recovery of Microsoft Exchange application. It is an extension to Virtual Copy which enables creation of application consistent snapshots without sacrificing performance, availability or versatility.

The Application Suite for Exchange includes the following functionality and features:

- HP 3PAR Recovery Manager for Exchange
- HP 3PAR VSS hardware provider

For more information see

Technical Specifications

<http://h18006.www1.hp.com/storage/software/3par7000/as-exchange/index.html>

Models	HP 3PAR 10400 Application Software Suite for Exchange Media LTU	BD246A*
	HP 3PAR 10800 Application Software Suite for Exchange Media LTU	BD258A*
	HP 3PAR 7200 Application Software Suite for Exchange LTU	BC769A*
	HP 3PAR 7400 Application Software Suite for Exchange LTU	BC797A*
	HP 3PAR 7450 App Suite Exchange Media LTU	BC916A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Application Software Suite for SQL

Overview

HP 3PAR Application Suite for SQL provides administrators the power of seamless, rapid online recovery of Microsoft SQL application. It is an extension to Virtual Copy which enables creation of application consistent snapshots without sacrificing performance, availability or versatility.

The Application Suite for SQL includes the following functionality and features:

- HP 3PAR Recovery Manager for SQL
- HP 3PAR VSS hardware provider

For more information see

<http://h18006.www1.hp.com/storage/software/3par7000/as-sql/index.html>

Models	HP 3PAR 10400 Application Software Suite for SQL Media LTU	BD247A*
	HP 3PAR 10800 Application Software Suite for SQL Media LTU	BD259A*
	HP 3PAR 7200 Application Software Suite for SQL LTU	BC770A*
	HP 3PAR 7400 Application Software Suite for SQL LTU	BC798A*
	HP 3PAR 7450 App Suite SQL Media LTU	BC917A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Application Software Suite for Microsoft Hyper-V

Overview

HP 3PAR Application Suite for Hyper-V provides administrators the power of seamless, rapid online recovery of Microsoft Hyper-V VMs. It is an extension to Virtual Copy which enables creation of application consistent snapshots without sacrificing performance, availability or versatility.

The Application Suite for Hyper-V includes the following functionality and features:

- HP 3PAR Recovery Manager for Hyper-V
- HP 3PAR VSS hardware provider

NOTE: HP 3PAR Virtual Copy Software is a prerequisite, purchased independently or in the HP 3PAR Replication Software Suite.

Models	HP 3PAR 10400 Application Software Suite for Hyper-V Media LTU	BD182A*
	HP 3PAR 10800 Application Software Suite for Hyper-V Media LTU	BD183A*

Technical Specifications

HP 3PAR 7200 Application Software Suite for Hyper-V Media LTU	BD178A*
HP 3PAR 7400 Application Software Suite for Hyper-V Media LTU	BD179A*
HP 3PAR 7450 Application Software Suite for Hyper-V Media LTU	BD190A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR Application Software Suite for Oracle

Overview

HP 3PAR Application Suite for Oracle provides administrators the power of seamless, rapid online recovery of Oracle database application. It is an extension to Virtual Copy which enables creation of application consistent snapshots without sacrificing performance, availability or versatility.

The Application Suite for Oracle database includes the following functionality and features:

- HP 3PAR Recovery Manager for Oracle

For more information see

<http://h18006.www1.hp.com/storage/software/3par7000/as-oracle/index.html>

Models

HP 3PAR 10400 Application Software Suite for Oracle Media LTU	BD248A*
HP 3PAR 10800 Application Software Suite for Oracle Media LTU	BD260A*
HP 3PAR 7200 Application Software Suite for Oracle LTU	BC771A*
HP 3PAR 7400 Application Software Suite for Oracle LTU	BC799A*
HP 3PAR 7450 App Suite Oracle Media LTU	BC918A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

HP 3PAR StoreServ 10000 Software Suites Upgrade Options

Overview

The HP 3PAR StoreServ 10000 Storage now provides the opportunity for you to upgrade your individual software title(s) to an appropriate lower priced and simpler to use software suite. The upgrade can be done by the purchase of upgrade LTUs corresponding to the software titles already available in your system, as indicated below

Models

HP 3PAR 10400 Remote Copy to Replication Software Suite Upgrade LTU	BD280A*
HP 3PAR 10800 Remote Copy to Replication Software Suite Upgrade LTU	BD293A*
HP 3PAR 10400 Remote Copy Virtual Copy to Replication Software Suite Upgrade LTU	BD281A*
HP 3PAR 10800 Remote Copy Virtual Copy to Replication Software Suite Upgrade LTU	BD294A*
HP 3PAR 10400 Remote Copy Peer Persistence to Replication Software Suite Upg LTU	BD282A*
HP 3PAR 10800 Remote Copy Peer Persistence to Replication Software Suite Upg LTU	BD295A*
HP 3PAR 10400 Virtual Copy to Replication Software Suite Upgrade LTU	BD283A*
HP 3PAR 10800 Virtual Copy to Replication Software Suite Upgrade LTU	BD296A*
HP 3PAR 10400 Adaptive Optimization to Data Optimization SW Suite v2 Upg LTU	BD284A*
HP 3PAR 10800 Adaptive Optimization to Data Optimization SW Suite v2 Upg LTU	BD297A*
HP 3PAR 10400 Dynamic Optimization to Data Optimization SW Suite v2 Upgrade LTU	BD285A*

Technical Specifications

HP 3PAR 10800 Dynamic Optimization to Data Optimization SW Suite v2 Upgrade LTU	BD298A*
HP 3PAR 10400 Adaptive Opt Dynamic Opt to Data Optimization SW St v2 Upg LTU	BD286A*
HP 3PAR 10800 Adaptive Opt Dynamic Opt to Data Optimization SW St v2 Upg LTU	BD299A*
HP 3PAR 10400 Adaptive Optimization Peer Mn to Data Optimization SW St v2 Upg LTU	BD287A*
HP 3PAR 10800 Adaptive Optimization Peer Mn to Data Optimization SW St v2 Upg LTU	BD300A*
HP 3PAR 10400 Dynamic Optimization Peer Mn to Data Optimization SW St v2 Upg LTU	BD288A*
HP 3PAR 10800 Dynamic Optimization Peer Mn to Data Optimization SW St v2 Upg LTU	BD301A*
HP 3PAR 10400 Adpt Opt Dyn Opt Peer Mn to Data Optimization SW St v2 Upg LTU	BD289A*
HP 3PAR 10800 Adpt Opt Dyn Opt Peer Mn to Data Optimization SW St v2 Upg LTU	BD302A*
HP 3PAR 10400 Virtual Domain to Security Software Suite Upgrade LTU	BD290A*
HP 3PAR 10800 Virtual Domain to Security Software Suite Upgrade LTU	BD303A*
HP 3PAR 10400 Virtual Lock to Security Software Suite Upgrade LTU	BD291A*
HP 3PAR 10800 Virtual Lock to Security Software Suite Upgrade LTU	BD304A*
HP 3PAR 10400 Optimization Suite to Data Optimization Software Suite v2 Upg LTU	BD292A*
HP 3PAR 10800 Optimization Suite to Data Optimization Software Suite v2 Upg LTU	BD305A*

*Insert AE at the end of a part number above for an electronic LTU (eg. XXXXBAE). E-Delivery should be ordered with any Standalone or Upgrade software order.

Note on HP 3PAR Software Licensing Schemes

HP 3PAR follows multiple licensing schemes for different software offerings. There are three different licensing schemes those are largely employed across the HP 3PAR software portfolio. They are the spindle based licensing, simplified spindle based licensing and frame based licensing. The frame based licensing approach requires that the HP 3PAR software offering is licensed only once for the system. This form of licensing is common to all the HP 3PAR Storage platforms. The following list shows the HP 3PAR software products which follow the frame based licensing approach:

- HP 3PAR System Reporter
- HP 3PAR Online Import Software
- HP 3PAR Reporting Software Suite
- HP 3PAR Recovery Manager for VMware vSphere
- HP 3PAR Recovery Manager for Microsoft Exchange
- HP 3PAR Recovery Manager for Oracle
- HP 3PAR Recovery Manager for Microsoft SQL Server
- HP 3PAR Plug-In for VMware vCenter
- HP 3PAR Plug-In for Microsoft Hyper-V
- HP 3PAR Application Software Suite for VMware
- HP 3PAR Application Software Suite for Exchange
- HP 3PAR Application Software Suite for SQL
- HP 3PAR Application Software Suite for Microsoft Hyper-V
- HP 3PAR Application Software Suite for Oracle

The spindle based licensing approach requires a HP 3PAR software offering to be licensed based on each drive or drive magazine installed on the HP 3PAR Storage system. There are two different models followed based on this licensing mechanism - the spindle based licensing and the simplified spindle based licensing. The following table shows the licensing models used in the various HP 3PAR Storage platforms:

Licensing Scheme	Spindle Based Licensing	Simplified Spindle Based
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Technical Specifications

		Licensing
HP 3PAR F-Class Storage	Yes	No
HP 3PAR T-Class Storage	Yes	No
HP 3PAR StoreServ 7000 Storage	No	Yes
HP 3PAR StoreServ 10000 Storage	Yes*	Yes

* Spindle based licensing on HP 3PAR StoreServ 10000 Storage will be available till 10/31/2013 only

In the spindle based licensing approach, there is a different SKU available for each combination of drive capacity and drive type. Based on the specific drives being purchased for a HP 3PAR Storage system, the corresponding software SKU needs to be purchased. This purchase should be done for all the drives on the system irrespective of the number of drives or nodes or capacity of the system

In the simplified spindle based licensing approach, every software title has a Base LTU which needs to be purchased once for a system. For every drive or drive magazine added to the system thereon, a drive LTU (for 7000) or a drive magazine LTU (for 10000) has to be purchased for the system respectively. The drive LTU or the drive magazine LTU for a particular platform is a single SKU irrespective of the drive type or drive capacity. Furthermore, based on the type of HP 3PAR Storage system, there is a specific number of drives beyond which any software title is not required to be purchased for that system. Please note that HP 3PAR Software suites are available only in the form of simplified spindle based licensing approach. The following table shows the maximum drive limits for each of the HP 3PAR Storage systems that support the simplified spindle based licensing approach:

HP 3PAR StoreServ Storage	Maximum number of drives for licensing*	Comments
HP 3PAR StoreServ 7200 Storage	48 drives	-
HP 3PAR StoreServ 7400 Storage	168 drives	-
HP 3PAR StoreServ 7450 Storage	no limit	-
HP 3PAR StoreServ 10400 Storage	320 drives	80 drive magazines
HP 3PAR StoreServ 10800 Storage	640 drives	160 drive magazines

*For a particular software offering no further licensing is required for a system beyond these drive counts

The list below shows the software titles available in the form of spindle based licensing and simplified spindle based licensing:

HP 3PAR Software Title	Spindle Based Licensing	Simplified Spindle Based Licensing
HP 3PAR Operating System Software	Yes	No
HP 3PAR Thin Provisioning	Yes	No
HP 3PAR Thin Conversion	Yes	No
HP 3PAR Thin Persistence	Yes	No
HP 3PAR Virtual Copy	Yes	Yes
HP 3PAR Remote Copy	Yes	Yes
HP 3PAR Peer Persistence	Yes	Yes
HP 3PAR Adaptive Optimization	Yes	Yes
HP 3PAR Dynamic Optimization	Yes	Yes
HP 3PAR Priority Optimization	Yes	Yes

Technical Specifications

HP 3PAR System Turner	Yes	Yes
HP 3PAR Virtual Domains	Yes	Yes
HP 3PAR Virtual Lock	Yes	Yes
HP 3PAR Peer Motion	Yes	Yes
HP 3PAR Operating System Software Suite	No	Yes
HP 3PAR Replication Software Suite	No	Yes
HP 3PAR Data Optimization Software Suite	No	Yes
HP 3PAR Optimization Software Suite*	Yes	Yes
HP 3PAR Data Optimization Software Suite V2	No	Yes
HP 3PAR Security Suite	No	Yes

* Optimization Software Suite is available only on HP 3PAR StoreServ 10000 Storage

Service and Support

Service and Support

Services to accelerate time to results

HP Storage Services bring you a rich portfolio of consulting and support services designed to add value to our core storage products and solutions. We have the know-how and experience to put storage technology to work for you. We work closely with you as your strategic partner, leveraging our full services portfolio to make sure that everything works to optimize your enterprise.

Choose from services aligned to our storage product offerings and lifecycle. From mission-critical onsite services to innovative web-based remote support, you choose the precise level of attention and support your business demands.

Discover, plan, and design Choose from a rich portfolio of services to make the most of 3PAR Application Software Suite for Microsoft Exchange (Malpe - PL 43), 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 3PAR Application Software Suite for Microsoft Exchange (Malpe - PL 43) Storage that addresses your unique technology requirements.

HP Storage Efficiency Analysis - HP Storage Efficiency Analysis (SEA) combine tool-based fact gathering and HP's expertise for a quick path to identify immediate issues and their resolution, and helps customer realize the benefits of HP Storage Technology <http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-6727ENW.pdf>

HP Storage Impact Analysis - This service provides assessment service to analyze your current storage and evaluate the impact of change to the infrastructure. It is ideal for customers looking to achieving top utilization of your storage technology and assessing the likely impact of data growth and future projects that require storage.
<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-1174ENW.pdf>

HP Storage Modernization service Storage Modernization helps customers seamlessly position themselves to integrate the latest technological advancements in storage effectively. It helps clients modernize, reduce costs, and improve quality of service through the execution of process and technology changes to achieve demand management.
<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-4620ENW.pdf>

Deploy and integrate

Implement 3PAR Application Software Suite for Microsoft Exchange (Malpe - PL 43) 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.

HP 3PAR StoreServ Storage Installation and Startup Service - Onsite installation and testing installs and tests HP 3PAR StoreServ Storage, including configuration and deployment, properly integrated into your environment
<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-2568ENW.pdf>

HP 3PAR Software Installation and Startup Service - Support for deployment of licensed HP 3PAR software products into operation
<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-2569ENN.pdf>

Service and Support

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

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-0774ENW.pdf>

HP EVA to HP 3PAR StoreServ Acceleration Service - An alternative to do-it-yourself data migration options with guidance from our storage migration specialists, designed to help you execute an HP EVA to HP 3PAR StoreServ Storage data migration at your own pace and with lowered cost

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-4234ENW.pdf>

HP Data Replication Solution Service - Configuration of real-time data mirroring or snapshot capabilities of 3PAR Remote Copy and 3PAR Virtual Copy to safeguard your critical business information

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA0-9431ENW.pdf>

HP Enhanced Implementation Service for SANs - Complete design and implementation service for Fibre Channel, FCoE, FCIP, SAS, and iSCSI SAN connectivity components

HP 3PAR Adaptive Optimization Policy Implementation Service - Analysis, recommendations, and implementation of HP 3PAR Adaptive Optimization policies to enable storage tiering using data collected from your HP 3PAR storage over time

HP Storage Virtual Volume Design and Implementation Service - Activities your organization needs to design and implement a new LUN, virtual volume, or virtual disk (Vdisk) configuration

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-0774ENW.pdf>

HP Proactive Select - A flexible way to purchase services to fit your environment with an extensive menu of HP Proactive Select event and technical services, such as onsite firmware upgrades, health checks, assessments, and education

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENW.pdf>

HP Thin Volume Conversion Service - Evaluation and execution of conversion from standard to thin provisioned volumes for HP 3PAR StoreServ Storage for when you are looking to optimize the utilization of HP 3PAR StoreServ Storage by improving capacity utilization and performance

<http://h20195.www2.hp.com/V2/GetPDF.aspx/c01658303.pdf>

HP 3PAR StoreServ Health Check - Assessment of the overall health and supportability of your HP 3PAR StoreServ Storage

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA4-3404ENW.pdf>

HP Performance Analysis Service - Data collection, detailed input/output (I/O) analysis, and enhancement recommendations to improve HP 3PAR StoreServ Storage disk array performance, stability, and availability by identifying potential problems and understanding the possible solutions that will help avoid them

HP 3PAR Rebalance Service - Planning and coordinating activities led by HP Storage Services professionals to deliver a successful disk array rebalance, including creation and implementation of a rebalance service plan, verification tests to confirm product functionality, and an orientation session to review changes made to the system

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA4-0280ENW.pdf>

HP 3PAR Storage Assessment Service - Assessment check based on a point-in-time

Service and Support

snapshot of system configuration, capacity, supportability, and interoperability for a single HP 3PAR Storage, ideal when you are experiencing rapid growth or need to establish a baseline understanding of your current HP 3PAR StoreServ environment

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA4-0280ENW.pdf>

Operate and support

Choose the right support to maximize uptime, free up your resources, and achieve improved value-as you get the most out of the existing IT assets while accelerating time-to-revenue.

HP Critical Service - Proactive activities and 24x7 monitoring of your environment-ideal for when uninterrupted uptime is essential

HP Proactive Care 24x7 - Hardware and software support services designed specifically for your technology with rapid access to Advanced Solution Center Specialists plus firmware and software management and best practice advice

<http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf>

HP Proactive Care Personalized Support - An option-if you have HP Proactive Care- to bring increased personalization of the Proactive Care support experience through the assignment of an Account Service Manager (ASM) who provides IT best practice advice to help address IT issues and projects.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA4-3446ENW.pdf>

HP Education Services - Comprehensive training for new, as well as experienced, storage administrators designed to expand your skills and keep you up to speed with the latest storage and virtualization technology from HP Storage. <http://education.hp.com/curr-storsan.htm>

Optimized Care - delivers best performance and stability through deployment and proactive management practices

Choose from three levels of operate and support care

HP Critical Service

Additional options - 10 HP Proactive Select credits per year, per array

Standard Care - maintains high level of uptime, along with expert help to cut the cost and complexity of implementation and support

HP Proactive Care 24x7-Plus, 20 credits per year per array

Additional options - HP Proactive Care Personalized Support (once per Proactive Care support new environment), an additional day of HP Personalized Support, and 10 additional HP Proactive Select credits per year, per array

Basic Care - Minimum recommended support

HP Proactive Care 24x7, plus 10 HP Proactive Select credits per year, per array

Additional options - HP Proactive Care Personalized Support (once per Proactive Care support new environment), an additional day of HP Personalized Support, and 10 additional HP Proactive Select credits per year, per array

Remote Support Automation

HP Automation provides 24x7 coverage, proactive problem prevention, accurate problem diagnosis and faster problem resolution, as well as interactive support portals and tools. This is an integral, and cost-free, part of your HP support relationship and we are continually investing in additional cutting-edge capabilities to make it better.

Service and Support

For more information

www.hp.com/services/storage

To learn more on HP Storage Services, please contact your HP sales representative or HP Authorized Channel Partner

HP Care Pack Services are sold by HP and HP Authorized Service Partners:

- Services for customers purchasing from HP or an enterprise reseller are quoted using HP order configuration tools.
- Customers purchasing from a commercial reseller can find HP Care Pack Services at: www.hp.com/go/lookuptool

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For drives, 1 GB = 1 billion bytes. Actual formatted capacity is less

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