



# Storage made effortless

## HP 3PAR StoreServ 7000 Storage



### Bulletproof Tier 1 storage at a midrange price

Have budget constraints forced you to settle for midrange storage with compromised performance and scalability? Is managing your storage taking up more and more time while delivering diminishing returns?

The world's most advanced storage platform has extended its midrange offerings, delivering effortless, efficient, bulletproof, and futureproof storage to the entire midrange. HP 3PAR StoreServ 7000 Storage delivers the same industry-leading architecture chosen by eight out of 10 of the world's largest service providers at a price that makes compromises a thing of the past. It's also the only platform that offers the performance required to double virtual machine (VM) density on your physical servers—guaranteed.<sup>1,2</sup> Store all of your data on a single system that supports advanced features, such as storage federation and automated tiering, and that enables you to start small and grow without disruption. Make storage effortless.

With two models and a range of options including support for solid state drives (SSDs) and an all-SSD configuration, HP 3PAR StoreServ 7000 Storage is effortless to install, own, and upgrade. You'll be up and running in just minutes. You'll be able to meet mixed workload demands with virtually unlimited scalability options. You'll spend less time managing your storage and increase your responsiveness to new demands. You'll be able to meet your current block and file storage needs with an architecture that is also designed to meet your object storage needs as they emerge. You'll eliminate tradeoffs that have forced you to sacrifice critical capabilities like performance and scalability.

The HP 3PAR Operating System Suite that comes with HP 3PAR StoreServ 7000 Storage includes everything you need to get started, including HP 3PAR Thin Technologies that set the gold standard for storage efficiency. Optional software suites are also available that offer data optimization, replication, security, reporting, and application integration—making enterprise Tier 1 features available to midrange customers like you at a price that you can afford. It's storage that offers the performance and flexibility you need to accelerate new application deployment and support server virtualization, the cloud, ITaaS, or whatever else your future may hold—effortlessly.

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## Key features and benefits

### Grow with freedom in any direction

- One architecture and a single stack from midrange to high end
- Meet block, file, and even object storage needs as they arise
- Ease data migration with storage federation software
- Affordable entry pricing and nondisruptive scalability to four nodes<sup>3</sup>

### Delivers enterprise features and resiliency at a price you can afford

- Automated DR configuration protects your data with one step
- Mixed workload support increases consolidation opportunities
- Persistent technologies deliver high availability and Tier 1 resiliency
- Snapshots for online recovery
- Storage federation for data mobility, including load balancing and painless data migration
- Industry-leading thin technologies cut capacity requirements in half
- Automated subvolume tiering optimizes service levels and reduces costs

### Simple to install, own, and upgrade

- New software suites simplify purchasing and lower costs
- SmartStart and Rapid Provisioning get you up and running in minutes
- Reconfigurable in just seconds without disruption
- Shares a single, simple management console with all 3PAR arrays
- Self-diagnostic and “phone home” capabilities automate support
- Online Import makes upgrading from EVA effortless

## Be ready for whatever your future may hold

The one thing we know about the future is that it's unpredictable. So how do you prepare for data growth and new business initiatives in such an environment? You need a storage platform that gives you the power to master the unpredictable. A storage platform that is scalable, so it can grow with you. Storage that's adaptable, so it supports a variety of different applications and workloads without sacrificing performance. Storage that supports mobility, so the right data is in the right place at the right time, and painful migrations become a thing of the past. And you need it all for a price you can afford.

With rich capabilities at an entry price that has not been seen before and nondisruptive scalability to four nodes, HP 3PAR StoreServ 7000 Storage eliminates compromises between affordability and Tier 1 resiliency by giving you both. It shares the same architecture and software stack with all other HP 3PAR arrays, so you'll not only get the world's most advanced storage platform, but you'll also be able to meet block and file storage needs today and object storage needs as they emerge.

Mastering the unpredictable also means being able to move data and workloads between arrays without impact to your applications, users, or services. With HP 3PAR StoreServ 7000 Storage, you can simply and nondisruptively shift data between HP 3PAR systems of any model without additional management layers or appliances. The underlying storage federation capabilities that make this seamless data movement possible can also help improve availability in clustered VMware environments. And if you are currently an HP EVA storage customer, storage federation allows you to effortlessly import your data from your current EVA system onto HP 3PAR StoreServ Storage to provide you with a simple upgrade path.

## The world's most advanced storage platform, now for all of the midrange

High availability and uncompromising data protection are must-haves for any enterprise data center—not just those that can afford high-end storage. With HP 3PAR StoreServ 7000 Storage, you can dramatically reduce the cost of remote data replication and disaster recovery with highly efficient, multi-mode replication across all HP 3PAR models.

Part of the HP 3PAR 7000 Replication Software Suite, HP 3PAR Remote Copy software allows you to achieve low recovery-time objectives (RTOs) and zero-data-loss recovery-point objectives (RPOs) with complete distance flexibility. And since HP 3PAR Remote Copy configuration is now autonomic, meaning it is completed in one step, so you can protect your data from the start.

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<sup>3</sup> Scalability to four nodes restricted to the 3PAR StoreServ 7400.

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## Replicate data between the midrange and the enterprise platform



A unique suite of persistent technologies power HP 3PAR StoreServ 7000 Storage in delivering high availability and Tier 1 resiliency to the midrange. HP 3PAR Persistent Cache preserves service levels so they are not impacted by unplanned component failures—a key requirement for the virtual data center. HP 3PAR Persistent Ports allow nondisruptive upgrades to HP 3PAR StoreServ 7000 Storage systems without relying on multipathing software and without initiating failover.

Effortless resiliency is delivered by HP 3PAR Peer Persistence Software, which keeps your business-critical VMware deployment seamlessly running on your HP 3PAR StoreServ 7000 system, even in the event of disaster. With Peer Persistence, you'll also be able to federate storage across data centers without being constrained by physical boundaries. Failover and failback between two sites or data centers is transparent to hosts.

Support for solid state drives, block-level storage tiering, and mixed workload optimization enable high levels of performance, so you can put more applications on the same storage to lower total infrastructure cost. Unlike traditional arrays that require you to “scale up” to support growth or increase performance, the unique, clustered, Mesh-Active architecture shared by HP 3PAR StoreServ Storage delivers capacity and performance that scales automatically, even at extremely high-capacity utilization levels. Low latency levels meet the requirements of response-time sensitive applications like Oracle Database and Microsoft® Exchange. This high-performance architecture also allows you to get more out of your VMware deployment, where extensive use of virtual memory pages to disk can limit VM consolidation on your physical server when paired with legacy storage, but not with 3PAR StoreServ solutions. In fact, HP 3PAR StoreServ Storage delivers such high performance that HP guarantees your ability to double VM density on your physical servers.<sup>4</sup>

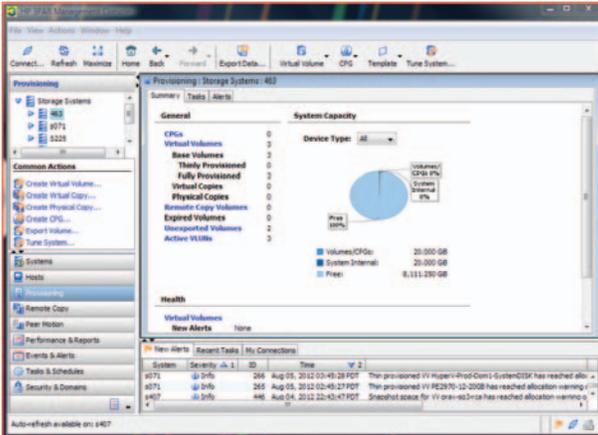
In the area of effortless efficiency, unlike copycat thin storage on legacy arrays, HP 3PAR StoreServ 7000 Storage features hardware-enabled thin technologies that allow the system to run in a state of consistent high-capacity utilization without any performance tradeoffs. Save on the cost of a storage technology refresh and then increase storage ROI by keeping incremental purchases, administration, and operating costs low over time. In fact, the HP Get Thin Guarantee promises new HP 3PAR StoreServ customers a minimum 50 percent reduction in capacity requirements by replacing legacy storage with HP 3PAR StoreServ—guaranteed.<sup>5</sup>

Policy-driven, autonomic storage tiering technologies also make efficiency effortless by balancing cost and performance to meet service-level requirements for the lowest cost, while increasing business agility and mitigating risk. For example, HP 3PAR Adaptive Optimization Software leverages a proven, fine-grained data movement engine and applies it to independent regions within a volume to deliver highly reliable, nondisruptive, autonomic, tiered storage to provide right QoS to the right data at the right time so you can meet service-level targets.

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## HP 3PAR Management Console



## Incredibly simple to install, own, and upgrade

Simplicity saves you money, but it must be there from the start. With HP 3PAR StoreServ 7000 Storage, streamlined software suites<sup>6</sup> make selecting and purchasing enterprise-class features simple and affordable. In addition:

- **SmartStart**  
New SmartStart installation gets you up and running in six quick and easy steps, while 3PAR Rapid Provisioning reduces array wide striping of data across internal resources.
- **HP 3PAR Autonomic Groups**  
Autonomic Groups gives you the flexibility to create host, volume, and domain groups to further automate and expedite storage provisioning, both now and in the future. Three clicks and 60 seconds are all you need to fully create and provision multiple volumes to multiple servers. All of these volumes are reconfigurable in just seconds, without disruption and without compromise.
- **The HP 3PAR Management Console**  
A unified, point-and-click interface that supports all HP 3PAR StoreServ arrays makes management effortless. Rich instrumentation and robust, customizable reporting capabilities remove the need for add-on software tools as well as diagnosis and troubleshooting that require professional services.
- **Open Administration Support**  
Open administration support is provided via Simple Network Management Protocol (SNMP), Storage Management Initiative Specification (SMI-S), and a recently added Web Services API.
- **Secure Services Architecture**  
Ongoing support is also effortless with HP 3PAR StoreServ 7000 Storage, which features automated support and is designed to be self-healing. Behind this capability is a Secure Service Architecture that creates a dedicated, enhanced-security communication channel between the system and remote support resources. Diagnostic information such as system health statistics, configuration data, performance data, and system events are periodically collected on each 3PAR StoreServ array and transferred to HP for remote diagnostic analysis and proactive fault detection.

## Currently an EVA customer? Upgrading to 3PAR is effortless!

If you are an existing EVA customer looking for a pain-free evolution that takes the best of EVA into the future of storage, then look no further than HP 3PAR StoreServ 7000 Storage. With the new online import feature, you can move data quickly and easily from HP EVA to HP 3PAR StoreServ Storage using Command View EVA. This process couldn't be simpler, and HP 3PAR StoreServ Storage is everything you could want in a next generation of EVA—and more.

## Storage built for server virtualization

Virtualizing your data center? Then you probably know that server virtualization can stretch traditional storage to the breaking point when it comes to performance, availability, efficiency, and manageability. Addressing these requirements is critical to achieving full business benefit from data center virtualization. HP 3PAR StoreServ 7000 Storage is designed from the ground up to help you optimize VM density, reduce storage costs, and simplify management with virtualization software from VMware, Microsoft, and Citrix.

HP 3PAR StoreServ Storage removes storage as a bottleneck from your virtualization deployment by delivering high I/O performance and workload agility—effortlessly. As a result, you will be able to double virtual machine density on your physical servers for greater consolidation and cost savings and lower application deployment costs.<sup>7</sup>

<sup>6</sup> See page 6 for descriptions of each of these suites.

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HP 3PAR StoreServ integration with VMware vCenter and Microsoft System Center gives you enhanced visibility into storage resources and precise insight into how virtual machines are mapped to datastores and system volumes. HP 3PAR Recovery Manager for VMware vCenter provides vSphere administrators with superior granularity and control of array-based snapshots that can be used for rapid online data protection and recovery. Integration with VMware VAAI and VASA and Microsoft Offload Data Transfer (ODX) and thin provisioning enables HP 3PAR StoreServ Storage to improve virtual infrastructure performance, efficiency, and scalability.

In client virtualization environments, HP 3PAR StoreServ Storage delivers industry-leading performance, high availability, dynamic tiering, and advanced storage virtualization features. This delivers a seamless user experience, enables “BYOD” and desktop modernization, and drives down IT administration costs. Organizations that have deployed HP 3PAR StoreServ Storage in client virtualization environments consistently cite reduced TCO and increased ROI as two of the key advantages it has delivered.

## Storage optimized for your applications

Your critical business infrastructure and applications require a single storage infrastructure that can deliver the service levels, application availability, and efficiencies that your business requires. HP 3PAR StoreServ 7000 Storage allows you to consolidate applications onto a single, high-performance system, giving your business the flexibility to meet changing business needs on demand.

In SQL Server 2012 and Oracle Database deployments, HP 3PAR StoreServ 7000 Storage meets the performance demands of your databases via mixed workload support and the ability to scale down to smaller system capacities, while HP 3PAR Adaptive Optimization Software delivers performance optimization. HP 3PAR Thin Provisioning Software and Common Provisioning Group (CPG) allow your database deployment to grow over time, simplifying your initial design and sizing. With HP 3PAR Recovery Manager for Microsoft SQL Server and Oracle, you can automatically create and manage hundreds of application-consistent, reservation less, point-in-time snapshots of Microsoft SQL Server and Oracle databases for rapid online recovery and near-continuous data protection. Oracle Database 11g with Automatic Storage Management (ASM) and HP 3PAR Thin Provisioning simplify database storage management and enable resource optimization, resulting in unmatched cost of database storage.

With Microsoft Exchange 2010, HP 3PAR StoreServ 7000 support for 3PAR Rapid Provisioning simplifies deployment of new Exchange mailboxes by provisioning storage, adjusting logical unit numbers (LUNs), and creating a redundant array of independent disk groups in seconds—with no pre-planning required. HP 3PAR Thin Technologies remove the need for full provisioning of storage since Exchange Database Availability Groups (DAGs) consume only what they need. Autonomic storage tiering gives you the flexibility to meet a wide variety of Exchange workloads within the same mailbox database while also reducing cost. HP 3PAR Recovery Manager for Microsoft Exchange uses a unique asynchronous periodic mode to deliver a disaster recovery solution that provides data integrity and application-consistent snapshots at the remote site.

SAP landscapes feature unique challenges such as exponentially growing SAP database instances, the need to improve storage performance while increasing availability for SAP systems, and the need to keep up with rapid deployment of virtualized SAP systems. HP 3PAR StoreServ 7000 Storage addresses these challenges with capabilities such as industry-leading thin technologies for defining the SAP database size of tomorrow while paying for the hardware requirements of today. 3PAR Autonomic Groups and Virtual Domains simplify SAP database provisioning and organization of storage resources, while system-wide striping meets SAP environment demands for low-latency I/O response times under all conditions.

In Windows® Server 2012 environments, built-in, fine-grained virtualization, system-wide striping, and support for multi-tenancy give you the ability to consolidate mixed workloads onto a single HP 3PAR StoreServ 7000 system. With Windows Server 2012 Offload Data Transfer (ODX) and the HP 3PAR StoreServ 7000, you can migrate large files—such as databases or video files—up to seven times faster with near-zero network impact due to zero-detection capability integrated into the HP 3PAR ASIC. HP 3PAR Thin Technologies and Windows Server 2012 automatic reclamation of storage automate storage growth and shrinkage, while HP 3PAR Adaptive Optimization Software delivers the right QoS to the right data at the right time in Windows Server 2012 environments.

## For more information

Gain enterprise-class features at a midrange price with HP 3PAR StoreServ 7000 Storage. Visit [hp.com/go/storeserv7000](http://hp.com/go/storeserv7000).

## Software suites for HP 3PAR StoreServ 7000 Storage

HP 3PAR StoreServ 7000 Storage supports the same operating system and software offerings as the other members of the HP 3PAR StoreServ family, but with these specific 3PAR StoreServ models you have the opportunity to purchase software bundled into a series of suites designed to simplify purchasing and save you money. Selected software titles can also be purchased separately, as indicated below.

<b>HP 3PAR Operating System Software Suite</b>	Required for all new HP 3PAR StoreServ 7000 systems, this foundational software suite gives you everything you need to get up and running quickly and efficiently. This suite includes the HP 3PAR Operating System, Management Console, Host Explorer, and SmartStart—software designed to get you off to a quick start with your new HP 3PAR StoreServ 7000 system. It also includes all of the platform’s thin software offerings—Thin Provisioning, Thin Conversion, and Thin Persistence. Other highlights of this suite include Full Copy, autonomic rebalancing capabilities that help you optimize the use of future capacity expansions, and support for standard multipathing software for high availability in clustered environments. A 180-day license for online import is included to enable migration from HP EVA storage.
<b>HP 3PAR Replication Software Suite</b>	This optional suite bundles HP 3PAR Virtual Copy with Remote Copy Software, both also sold separately for all HP 3PAR StoreServ 7000 models. Included in this bundle is Peer Persistence, which enables peer federation for VMware clusters to improve overall availability. Licensed based on system capacity.
<b>HP 3PAR Data Optimization Software Suite</b>	This optional software bundle combines HP 3PAR Dynamic Optimization, Adaptive Optimization, and Peer Motion Software so you can move data and workloads between arrays without impacting applications, users, or services. Licensed based on system capacity, the three software titles bundled in this suite are also sold separately for all HP 3PAR StoreServ 7000 models.
<b>HP 3PAR Security Software Suite</b>	This optional suite bundles HP 3PAR Virtual Domains and Virtual Lock Software, both also sold separately for all HP 3PAR StoreServ 7000 models. With this suite, you can segregate access and deliver robust storage services for different applications and user groups with additional security attached to the retention of storage volumes. Licensed based on system capacity.
<b>HP 3PAR Application Software Suite for VMware</b>	Everything you need to make your VMware environment more agile and efficient—including HP 3PAR Recovery Manager for VMware, Host Explorer for VMware, VASA support, and three essential plug-ins: the VMware Site Replication Manager (SRM) Adapter, the HP 3PAR VAAI plug-in, and the 3PAR management plug-in for VMware View. This suite is optional and licensed on a per-system basis.
<b>HP 3PAR Application Software Suite for Exchange</b>	This bundle gives you the essentials for use with Microsoft Exchange, including HP 3PAR Recovery Manager for Exchange and the VSS Provider Software. This suite is optional and licensed on a per-system basis.
<b>HP 3PAR Application Software Suite for Oracle</b>	Everything you need for protecting Oracle databases, including HP 3PAR Recovery Manager for Oracle and Oracle Space Reclamation capabilities, sold as an optional suite and licensed on a per-system basis.
<b>HP 3PAR Application Software Suite for SQL</b>	Protect Microsoft SQL databases with HP 3PAR Recovery Manager for Microsoft SQL and the 3PAR VSS Provider Software, bundled with this optional suite and licensed on a per-system basis.
<b>HP 3PAR Reporting Software Suite</b>	Enhance system visibility and reporting capabilities with this optional suite, which includes HP 3PAR System Reporter Software and the 3PARInfo application, licensed on a per-system basis.

## HP Technology Services for HP 3PAR StoreServ

Tap into the HP Technology Services advantage—backed by the strategic and technical know-how of our consulting experts—for a single-source solution that makes the most of your investments. Choose from services recommended for HP 3PAR StoreServ Storage that meet your business needs.

### Discovery, planning, and design services

HP Services can help you assess and understand your options, develop a comprehensive plan, detail the end-to-end solution, and specify the right technology to meet your business needs. HP Services provides assessment services and planning workshops that clearly define business requirements and help develop the business case for your new storage investment. An efficient storage strategy is challenging and is best achieved through concerted effort and planning. Shrinking budgets and increasing business demands are a challenge for even the most experienced IT managers. HP Services can help streamline this process by helping you discover needs and create a plan geared toward simplifying the environment, reducing risk, and improving your HP 3PAR StoreServ Storage investments.

- **Discovery services**  
HP Storage Efficiency Analysis Service
- **Planning services**  
HP Storage Impact Analysis Service
- **Design services**  
HP Storage Modernization Service

### Deployment services

Mitigate risk and accelerate storage implementation with services that provide a best practices design, provide configuration and deployment from day one, and improve time to revenue. The proper configuration and setup of HP 3PAR StoreServ Storage is crucial to safeguard the performance, efficiency, and utilization of your environment, as well as to protect against data loss. HP Services uses best practices developed in-house at HP to install and configure your new HP 3PAR StoreServ Storage, which reduces disruption to your application and infrastructure while reducing risk and improving your storage investment.

- HP 3PAR StoreServ and Software 7000 Storage Installation and Startup Services
- HP 3PAR 7000 Replication Software Suite Installation and Startup Service
- HP 3PAR Adaptive Optimization Policy Implementation Service
- HP Enhanced Implementation Service for SANs
- HP Data Replication Solution Service
- HP Storage Virtual Volume Design and Implementation Service

### Integration services

These services can help migrate your data and integrate HP 3PAR StoreServ Storage into your environment to effortlessly respond to changing business needs. HP can also help you operate and manage your HP 3PAR StoreServ Storage throughout the full lifecycle of the array. With integration services from HP, we can help you efficiently use your storage, improve capacity utilization to reduce costs, and establish information management standards that can be used across backup, replication, and archiving.

- HP Data Migration Services
- HP 3PAR Health Check
- HP Performance Analysis Service
- HP 3PAR Rebalance Service
- HP 3PAR Storage Assessment Service
- HP Thin Volume Conversion Service
- HP EVA to 3PAR StoreServ Acceleration Service

### Support services

Your product warranty protects against product defects, while services protect your business, helping you to avoid downtime and improve performance with the right support level and access to firmware and patch updates and upgrades. Depending on your individual support requirements, choose from three levels of support that cover the entire product lifecycle to better address your needs:

<b>Optimized Care</b>	For mission-critical environments demanding the best performance and stability: <ul style="list-style-type: none"> <li>• <b>Support:</b> HP Critical Service</li> <li>• <b>Additional options:</b> 10 HP Proactive Select credits per year per array</li> </ul>
<b>Standard Care</b>	For business-critical environments that need to maintain the highest level of uptime: <ul style="list-style-type: none"> <li>• <b>Support:</b> HP Proactive Care 24x7, plus 20 HP Proactive Select credits per year per array</li> <li>• <b>Additional options:</b> HP Proactive Care Personalized Support (once per each new Proactive Care support environment), HP Personalized Support Additional Day, and an additional 10 HP Proactive Select credits per year per array</li> </ul>
<b>Basic Care</b>	For the minimum recommended support: <ul style="list-style-type: none"> <li>• <b>Support:</b> HP Proactive Care 24x7, plus 10 HP Proactive Select credits per year per array</li> <li>• <b>Additional options:</b> HP Proactive Care Personalized Support (once per each new Proactive Care support environment), HP Personalized Support Additional Day, and an additional 10 HP Proactive Select credits per year per array</li> </ul>

If none of our support recommendations meet your specific needs, we can tailor a service solution for your unique support requirements. Only HP brings together deep expertise, proactive and business-critical support, and a strong partner network—plus a full set of infrastructure services designed to power a converged infrastructure. Visit [hp.com/services/storage](http://hp.com/services/storage).

## HP Factory Express

HP Factory Express provides customization and deployment services along with your storage and server purchases. You can customize hardware to your exact specifications in the factory—helping speed deployment. Visit [hp.com/go/factoryexpress](http://hp.com/go/factoryexpress).

## HP Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help you acquire, manage, and ultimately retire your HP solutions. Visit [hp.com/go/hpfinancialservices](http://hp.com/go/hpfinancialservices).

## Customer technical training

We offer a variety of training courses on storage software, networking, archiving, and disk storage systems. Our classes are available in many delivery modalities—from traditional instructor-led courses at one of our 80 training centers worldwide to online and onsite training. Visit [hp.com/learn/storage](http://hp.com/learn/storage).

	HP 3PAR StoreServ 7200	HP 3PAR StoreServ 7400
<b>Controller nodes</b>	2	2 / 4
<b>Max. SFF drives</b>	144	240/480
<b>Max. LFF drives</b>	120	216/432
<b>Cache</b>	24 GB	32/64 GB
<b>Max. 8Gb/s FC ports</b>	12 = 4 (built in) + 8 (optional)	24 = 4/8 (built in) + 8/16 (optional)
<b>Max. 10Gb/s iSCSI/FCoE*</b>	4 (optional)	4/8 (optional)
<b>Built-in IP remote copy port</b> (can also use FC ports)	2	2/4
<b>Controller enclosure</b>	2U with 24 SFF drive slots (2x for a 4-node 3PAR StoreServ 7400)	
<b>Drive enclosure</b> (can be mixed behind one controller pair)	SFF drive enclosure: 24 slots in 2U LFF drive enclosure: 24 slots in 4U	

\* Available in the future



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