



# HP EVA P6000 Storage

Delivers efficient, virtualized storage and enables storage consolidation with greater capacity utilization and simpler management

## Affordable and efficient array system with high availability and performance

The HP EVA P6000 is an easy-to-use, capacity-enhanced storage system with built-in virtualization to help consolidate storage and simplify your IT. The EVA P6000 offers high performance, high availability, and robust data protection.

With an installed base of over 100,000 units across thousands of data centers, the EVA is a proven solution for mid- to large-sized companies that need enterprise storage features on a modest budget.

Combined with your favorite database, email, enterprise resource planning (ERP), or other applications, the EVA P6000 provides an integrated end-to-end solution that helps drive your business. It enables improved storage density with built-in P6000 Thin Provisioning software, and a smaller footprint in your data center with 2.5 inch SAS disk drives. It uses all the disks to send and retrieve data and dynamically expands virtual disks as your data grows. You also get multiprotocol support for your storage area network (SAN) with 8 Gb/s Fibre Channel, 1 Gb/s iSCSI, and 10 Gb/s iSCSI/FCoE options.

In other words, the EVA P6000 provides better business value by eliminating stranded capacity and maximizing performance.

## EVA P6000 family key features and benefits

Easy to use and economical to own

- The HP EVA P6000 Storage family is 20 to 30 percent easier to manage versus competing alternatives.<sup>1</sup> Its built-in virtualization makes it easy to provision, add storage, and protect data. This ease-of-use translates into savings for you and also speeds project cycle times.
- The virtualized design, a perfect complement for your converged infrastructure, improves utilization and reduces the expense of explosive data growth. Built-in thin provisioning further improves utilization by up to 50 percent through purchasing capacity only as it is needed.

- The modular design makes it easy to select an affordable entry configuration, while easily expanding and scaling it up to 480 TB in the future, which enables clients to continue to meet storage requirements as the enterprise grows.
- The small form factor (SFF) disk drives require about 40 percent less energy to store the same amount of data when compared to the previous generation array.
- SFF disk drives also reduce your data center footprint with almost twice the enterprise capacity in the same rack space versus previous generation array.
- New 200 GB and 400 GB SFF SAS SLC SSDs, up to 25, offer improved performance opportunities for many applications

## Highly effective virtual storage in rapidly changing environments

- In a virtual server environment where speedy deployment of new servers is critical, the HP EVA P6000 family offers a complementary adaptable storage solution. Configuring the EVA P6000 from VMware vCenter makes for easy provisioning. Support for vStorage APIs for Array Integration (VAAI) offloads certain processing functions from the host to the EVA P6000 system, which can greatly enhance overall performance.
- Flexible SAN connectivity options with built-in 8 Gb/s Fibre Channel ports, 1 Gb/s iSCSI ports, or 10 Gb/s iSCSI/FCoE ports help protect your investment as your needs for SAN connectivity change over time.
- Improved flexibility of business-critical applications, including Microsoft® Exchange, Microsoft SQL, SAP, and Oracle, with robust operating systems compatibility as well as seamless integration into VMware and Microsoft virtual server environments, enable the EVA P6000 to be used across many industries.
- Improve performance through the ability to alter service levels associated with a storage volume, without incurring down time, by using the Dynamic LUN Migration feature.

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<sup>1</sup> Source: "Comparing Management Costs for Midrange Storage Arrays from EMC, HP, and NetApp," Edison Group, May 2011.

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<b>Drive description</b>	450 SFF SAS or 240 LFF SAS Maximum, depending on model
<b>Drive types supported</b>	200 GB 6G SFF SLC SAS Solid State Drive 400 GB 6G SFF SLC SAS Solid State Drive 300 GB 6G 15K SFF Dual-port ENT SAS 300 GB 6G 10K SFF Dual-port ENT SAS 450 GB 6G 10K SFF Dual-port ENT SAS 600 GB 6G 10K SFF Dual-port ENT SAS 900 GB 6G 10K SFF Dual-port ENT SAS 450 GB 6G 15K LFF Dual-port ENT SAS 600 GB 6G 15K LFF Dual-port ENT SAS 1 TB 6G 7.2K SFF Dual-port MDL SAS 2 TB 6G 7.2K LFF Dual-port MDL SAS 3 TB 6G 7.2K LFF Dual-port MDL SAS
<b>Capacity</b>	720 TB maximum, depending on model
<b>Host interface</b>	8 Gb/s Fibre Channel (8) ports or 1 Gb/s iSCSI (8) ports or 10 GbE (4) ports Maximum, depending on model
<b>Type and number of disk enclosures</b>	(18) M6625 (20) M6612 Up to 10 M6612 or M6625 are supported with the EVA P6300/P6350; up to 20 M6612; or up to 18 M6625 are supported with the EVA P6500/P6550
<b>Drives per enclosure</b>	25 maximum for M6625 12 maximum for M6612
<b>Servers supported</b>	HP servers (HP-UX, ProLiant, and AlphaServers) x86 servers Dell servers Sun servers IBM servers
<b>Cache</b>	16 GB maximum, depending on model
<b>Storage controllers</b>	(2) HSV340 or HSV360 depending on model
<b>Compatible operating systems</b>	HP-UX HP OpenVMS Linux Sun Solaris Windows® Server 2003 Windows Server 2008 VMware IBM AIX
<b>Availability</b>	Dual redundant active/active controllers, hot pluggable power supplies, fans, cache batteries, I/O modules, environmental monitoring units, disks, power distribution units
<b>Warranty</b>	Three-year parts, three-year labor, and three-year onsite
<b>QuickSpecs URL</b>	<a href="http://h18000.www1.hp.com/products/quickspecs/13904_div/13904_div.pdf">http://h18000.www1.hp.com/products/quickspecs/13904_div/13904_div.pdf</a>

## Excellent reliability and availability

- Strategic options for the EVA P6000 Storage are P6000 Business Copy software and P6000 Continuous Access software for replication needs. These improve data availability and business agility, supporting business continuance and disaster-tolerant environments for key business applications.
- Fifth generation of the HP virtual array system means built-in quality.
- HP Cluster Extension software helps you meet recovery point and recovery time objectives through seamless integration of the P6000 Continuous Access software remote replication capabilities, with Windows and Linux high-availability server clustering solutions.

## Service and support

- **HP Factory Express**  
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## HP Services

Tap into the HP support 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. Depending on your individual support requirements, choose from three levels of care that cover the entire lifecycle of your product to better address your needs:

### Optimized Care

Delivers excellent performance and stability through deployment and proactive management practices.

- **Installation and startup service**  
P6350/P6300/EVA4400 optional, P6550/P6500/EVA6400 and EVA8400 bundled
- **3-Year HP Critical Service or HP Critical Advantage Level 3**  
with additional 60 CA flexible credits
- **Optional related services**  
HP Enhanced Implementation for SANs; HP Storage Data Migration

### Standard Care

Maintains high level of uptime, along with expert help to cut the cost and complexity of implementation and support.

- **Installation and startup service**  
P6350/P6300/EVA4400 optional, P6550/P6500/EVA6400 and EVA8400 bundled
- **3-Year HP Proactive 24 Service or HP Critical Advantage Level 2**  
with additional 30 CA flexible credits<sup>2</sup>
- **Optional related services**  
HP Enhanced Implementation for SANs; HP Storage Data Migration

### Basic Care

Minimum recommended support.

- **Installation and startup service**  
P6350/P6300/EVA4400 optional, P6550/P6500/EVA6400 and EVA8400 bundled
- **3-Year HP Support Plus 24**
- **Additional 30 Proactive Select credits**
- **Optional related services**  
HP Enhanced Implementation for SANs; HP Storage Data Migration

If none of our support recommendations meet your 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.

Simplify your IT infrastructure with built-in virtualization and thin provisioning. To know more, visit [hp.com/go/services](http://hp.com/go/services).

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<sup>2</sup> For storage used by business-critical applications running on virtualized and x86 infrastructures.

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