HP P6000 Enterprise Virtual Array Systems

Family data sheet

Delivers efficient virtualized storage for the enterprise customer, enabling storage consolidation with enhanced capacity utilization and simple management.

Do you need an affordable and efficient storage solution with high availability and performance?

The HP P6000 Enterprise Virtual Array (EVA) is an easy-to-use, capacity-enhanced storage system with built-in virtualization letting you consolidate storage and simplify your IT. The P6000 EVA also offers high performance, high availability, and robust data protection. Combined with your favorite database, email, ERP, or other applications, the P6000 EVA provides an integrated end-to-end solution that helps drive your business.

See improved storage density with built-in thin provisioning and a smaller footprint in your data center with 2.5-inch SAS disk drives. Twice as many 2.5-inch disks fit in the space occupied by 3.5-inch disks.

The P6000 EVA offers native multi-protocol support to your SAN with 8 Gb/s Fibre Channel, 1 Gb/s iSCSI, and 10 Gb/s iSCSI/FCoE options. All configurations are easily managed with HP P6000 Command View management software.

The P6000 EVA family provides a better business value by lowering stranded capacity and increasing performance. It uses all the disks to send and retrieve data and can dynamically expand virtual disks as data grows.

P6000 family key features and benefits

Easy to use and economical to own

- The HP EVA family is the recognized leader when it comes to array management. The easy-to-use array management features continue with the new P6000 EVA models. Because the P6000 EVA has built-in virtualization, it is easy to provision storage, add storage, and protect data. This ease of use translates into savings for the customer.

- The P6000 EVA improves utilization and reduces the expense of explosive data growth with a virtualized design that is a perfect complement for the converged infrastructure.

- The P6000 EVA has a modular design making it easy to select an affordable entry configuration while easily expanding later, with scaling up to 480 TB.

- With new small form factor (SFF) disk drives, the P6000 EVA requires less energy per gigabyte compared to the previous generation array.

Highly effective virtual storage in rapidly changing environments

- In a virtual server environment where speedy deployment of new servers is critical, the HP P6000 Enterprise Virtual Array Systems family offers a complementary adaptable storage solution. Configuring the P6000 EVA from VMware vCenter enables easy provisioning.

- Protect your investment in your P6000 EVA as SAN connectivity needs change over time. The P6000 EVA offers 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.

- The P6000 EVA is broadly used across many industries with a variety of applications and with robust operating system compatibility.

- Save disk space compared to traditional provisioning by using new P6000 Thin Provisioning software to improve capacity utilization efficiency.

- As data ages, use the P6000 EVA dynamic LUN migration feature to easily move it to less expensive storage, all with no interruption to the application.

HP P6000 Enterprise Virtual Array Systems

Drive description	250 SFF SAS or 120 LFF SAS for the P6300, 450 SFF SAS or 240 LFF SAS for the P6500 Maximum, or combinations of both SFF or LFF
Drive type	146 GB 6G 15K SFF Dual-port SAS 300 GB 6G 10K SFF Dual-port SAS 450 GB 6G 10K SFF Dual-port ENT SAS 600 GB 6G 10K SFF Dual-port ENT SAS 300 GB 6G 15K LFF Dual-port ENT SAS 450 GB 6G 15K LFF Dual-port ENT SAS 600 GB 6G 15K LFF Dual-port ENT SAS 500 GB 6G 7.2K SFF Dual-port MDL SAS 2 TB 3G 7.2K LFF Dual-port MDL SAS Supported
Capacity	480 TB Maximum, depending on model
Host interface	Various configurations of 8 Gb/sec Fibre Channel ports per controller, 1 Gb/sec iSCSI ports per controller, and 10 GbE ports per controller
Type and number of disk enclosures	M6612 and/or M6625 enclosures. Up to 10 M6612 or M6625 are supported with the P6300 EVA; up to 20 M6612 or up to 18 M6625 are supported with the P6500 EVA
Drive per enclosures	12 LFF maximum for the M6612 25 SFF maximum for the M6625
Servers supported	HP servers (HP-UX, ProLiant, AlphaServers) X86 servers Dell servers Sun servers IBM servers Apple Mac OS X servers
Cache	4 GB cache for the P6300, 8 GB cache for the P6500
Storage controllers	(2) HSV340 for the P6300, (2) HSV360 for the P6500
Supported operating systems	HP-UX HP OpenVMS Linux Sun Solaris Windows Server 2003 Windows Server 2008 VMware IBM AIX Apple Mac OS X Xen
Availability	Dual redundant active/active controllers, hot pluggable power supplies, fans, cache batteries, I/O modules, environmental monitoring units, disks, power distribution units
Warranty	3-years parts, 3-years labor, 3-years onsite support
QuickSpec URL	http://h18000.www1.hp.com/products/quickspecs/13904_div/13904_div.pdf

Excellent reliability and availability

- Replicate data within an array and between arrays with P6000 Business Copy Software and P6000 Continuous Access Software. These products improve data availability and business agility supporting business continuance and disaster tolerant environments for key business applications.

- Meet Recovery Point and Recovery Time Objectives with HP Cluster Extension software that provides 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

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 to speed deployment. **www.hp.com/go/factoryexpress**

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/or onsite training. **www.hp.com/learn/storage**

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 **www.hp.com/go/hpfinancialservices**

HP Services

HP Technology Services has a robust portfolio of packaged life cycle support solutions that enable you to optimize P6000 EVA support for better business outcomes

Optimized Care: Delivers optimal performance and continuous availability for your P6500 EVAs solution through deployment and proactive management practices

3-year HP Critical Service[1]
OR
HP Critical Advantage Level 3 with additional 60 flexible credits[2]

Standard Care: Maintains a high level of availability along with expert help to cut the cost and complexity of implementing and supporting the P6300 EVA solution

3-year HP Proactive 24 Service[3]
OR
HP Critical Advantage Level 2 with additional 30 flexible credits[2]

Basic Care: Delivers minimum recommended support service level

3-year HP Support Plus 24 with additional 30 Proactive Select Credits[4]

Recommended Installation Services:

For P6500—HP Enhanced Implementation Services for SANs
For P6300—HP StorageWorks EVA Disk Array Installation & Startup
HP Storage Data Migration Service
HP Data Replication Solution for Business Copy and Continuous Access

All come with HP Insight Remote Support, available at no additional cost, delivering remote monitoring, diagnosis, and problem resolution.

Only HP brings together deep expertise, proactive and business critical support, and a strong partner network.

For more information visit **http://www.hp.com/services/storage**

---

[1] For environments where the business cannot tolerate any downtime

[2] For storage used by business critical applications

[3] For environments where the business can tolerate limited downtime

[4] For environments where the business can tolerate downtime

---

Simplify your IT infrastructure with built-in virtualization and thin provisioning. To know more, visit: **www.hp.com/go/p6000**

Get connected
www.hp.com/go/getconnected

Current HP driver, support, and security alerts delivered directly to your desktop

4AA3-2581ENW, Created June 2011