



HP StorageWorks 4400 Enterprise Virtual Array family

Datasheet



The HP StorageWorks 4400 Enterprise Virtual Array (EVA4400) delivers virtual storage for the midsize business, providing enhanced performance, better capacity utilisation and easier management of on-demand storage activities, all at an affordable price.

The EVA4400 is a high-performance, scalable, reliable and highly available storage solution that you can install in just a few hours. With broad operating system support and proven integration with Microsoft® Exchange, Oracle® and SAP, the EVA4400 delivers real value with cost savings that include easy setup and self-repair capabilities.

The EVA4400 is built on the HP StorageWorks 4100/6100/8100 EVA architecture with 99.999% availability for planned uptime, including dual-redundant design and high availability. The array supports robust local and remote replication capabilities to equip you with disaster tolerance and the ability to keep applications on line during backup and restore. And the EVA4400 is very easy to use and maintain, allowing you to spend less time managing your storage and more time managing your business.

Features and benefits

- **Affordable enterprise-class storage array functionality:** The EVA4400 is easy to install, upgrade and repair. It is priced affordably for midsize customers. EVA4400 Starter Kits are aggressively priced, easy to order and make it easy to deploy a customer's first SAN. The kits are targeted at specific market segments. Some kits are targeted to be used with HP BladeSystem servers.
- **Virtualisation to improve capacity and reduce management complexities:** Reduce management complexities typically found in traditional arrays by employing EVA Virtualisation capabilities to better utilise your management resources. Virtualisation technology also helps optimise the use of available capacity and reduces stranded storage.
- **Lower cost of ownership:** Reap the benefits of an attractive total cost of ownership with a more affordable and less complex solution than traditional arrays; easily order EVA4400 Starter Kits with single part number packages.
- **8 Gb/s ready:** The EVA4400's embedded switch model includes two 8 Gb/s embedded 10-port B-series SAN switches and eight 8 Gb/s SFP transceivers, providing access to the industry's fastest performing SAN infrastructure.
- **Simplified integration of leading business applications:** Quickly deploy business intelligence, disaster recovery and mail and messaging applications with EVA4400 Solution Blocks that provide blueprints, which combine the right server, storage and application components, for important applications such as Microsoft Exchange, Oracle and SAP.

- **Storage that keeps pace in the agile world of virtual servers:** Take advantage of an enhanced SAN solution – including a competitively priced EVA4400 Starter Kit for HP BladeSystem servers – that is easy to configure, easy to provision storage and can respond quickly to change in a dynamic VMware environment.
- **Complete solution for storage and servers:** The EVA4400 Starter Kit for HP BladeSystem is an easy-to-manage, simple solution that, when combined with the HP BladeSystem, provides a complete solution of storage and servers that are managed together and allows for the easy addition of virtualised storage to a VMware environment.
- **Easy and robust disaster recovery:** Protect data in the event of a service disruption, with local and remote replication software – Business Copy EVA and Continuous Access EVA – that enable fast and easy recovery.

Warranty services

The EVA4400 comes with a 2-year HP Global Limited Warranty and Technical Support, which includes 2 years of 9x5 hardware support, with next-business-day (NBD) response. HP warranty and support features include On line Business Support Centre and IT Resource Centre, Remote Support, Technical Phone Support, Customer Self-Repair, Software Limited Warranty and On-site Warranty Service. The EVA4400 is enabled for Customer Self-Repair for many of the replaceable parts and Customer Self-Update for XCS firmware updates. Customers who purchase an HP EVA Support Agreement have the option to perform Customer Self-Repair/Update or receive on-site support.

HP software warranty: HP warrants only that the software media will be free of physical defects for a period of ninety (90) days from delivery.

The following warranty upgrade options are available by purchasing one of our HP Care Pack services:

- **Response:** Upgrade your on-site next-business-day warranty to same day, 4 hours
- **Coverage:** Extend hours of coverage from 5 days x 9 hours to 7 days x 24 hours
- **Duration:** Select duration of coverage for a minimum period of 1 year or multiple years

For more information on these upgrade options, please refer to the following link:

www.hp.com/services/storage_carepacks

HP Services

When you buy an HP StorageWorks 4400 Enterprise Virtual Array storage solution, it is also a good time to think about what level of service and support you may need. To help take the worry out of deploying and managing your environment, we have designed a range of service options that are as flexible, scalable and affordable as your storage.

Recommended Services

- **3-Year HP Support Plus 24 Service:** Provides integrated hardware and software support services designed specifically for your technology. HP Services engineers deliver reactive on-site hardware support and over-the-phone software support around-the-clock.
- **HP Installation and Startup:** Provides product deployment consistent with HP product specifications. This service includes service planning, service deployment, Installation verification tests (IVT) and a customer orientation session.

Related Services

- **3-Year HP Proactive 24:** HP Proactive 24 Service (P24) is an integrated hardware and software support solution, which combines industry leading technical assistance with proactive account services to cover the whole IT infrastructure and to improve the stability, availability and operational effectiveness of the IT environment.
- **HP Data Migration Service:** Helps you move critical business information while decreasing the risk of data loss, minimising threats to data integrity and avoiding productivity-sapping performance interruptions.
- **HP SAN Solution Service:** A scalable service providing specialised expertise in storage area network planning and configuration. Service makes sure your SAN is configured for high performance and availability and is integrated with your applications, management environment and business processes.

For more information about HP services and support, contact your HP sales representative or HP-authorized Channel Partner or, visit www.hp.com/hps/storage

The EVA4400 is customer self-installable and can be easily installed within a few hours. HP Installation and Startup Services are optional and can be purchased. For more information on installation and start-up options, please refer to the following link:

www.hp.com/services/storage_carepacks

For more information about HP Global Limited Warranty and Technical Support, visit:

<http://h18006.www1.hp.com/products/storageworks/warranty.html>

Service and support

Factory Express

HP Factory Express is designed to help you get a better return from your IT investment by providing customisation, integration and deployment services along with your storage and server purchases. It provides predictable, trusted and tested IT solutions tailored to your business needs. We allow you to customise hardware to your exact specifications in the factory – helping to speed up deployment and free up internal resources. For more information on these services, please contact your HP representative or visit www.hp.com/go/factoryexpress

Technical specifications	EVA4400	EVA4400 with embedded switch
SKU part numbers	AG637A	AG805B
Maximum number of drives (including expansion)	96	96
Maximum capacity (including expansion)	96 TB	96 TB
Maximum drives per enclosures	12	12
Cache size per controller pair	4 GB	4 GB
Number/Type of controllers	2 HSV300 controllers	2 HSV300-S controllers
Number/Type of enclosures	Up to 8 M6412 enclosures	Up to 8 M6412 enclosures
Supported operating systems	HP-UX, HP OpenVMS, Linux, Sun Solaris, Windows® 2003 Standard Edition (32-bit/x64), Windows 2003 Enterprise Edition (32-bit/x64), VMware, Novell NetWare, IBM AIX, Apple Mac OS X	HP-UX, HP OpenVMS, Linux, Sun Solaris, Windows 2003 Standard Edition (32-bit/x64), Windows 2003 Enterprise Edition (32-bit/x64), VMware, Novell NetWare, IBM AIX, Apple Mac OS X
Supported products	HP servers (HP-UX, ProLiant, AlphaServers), x86 servers, Dell servers, Sun servers, IBM servers	HP servers (HP-UX, ProLiant, AlphaServers), x86 servers, Dell servers, Sun servers, IBM servers
Warranty (parts/labour/on-site)	2 years parts, 2 years labour, 2 years on-site support with next business day (NBD) response	2 years parts, 2 years labour, 2 years on-site support with next business day (NBD) response

	EVA4400 Starter Kit with 146 GB 15K HDDs Factory	EVA4400 Starter Kit with 146 GB 15K FC HDD Factory	EVA4400 (8) Starter Kit with 146 GB 15K HDD for HP BladeSystem *
SKU part numbers	AJ695A	AJ693A	AJ814A
Bundled hardware	EVA4400 array with embedded switches 12-bay HDD enclosure, eight 146 GB 15K RPM HDDs 4 Emulex 8 Gb/s PCI-e HBAs, Command View EVA V8	Complete solutions including dual controller Disk enclosure and eight 146 GB 15K HDD	Complete BladeSystem solution including dual controller Disk enclosure, eight 146 GB 15K HDD
Bundled software	Command View EVA V8.0 and four 1TB LTU SmartStart for EVA Storage v2.1 XCS 9.0 Firmware	Four 1TB Command View LTU Factory integrated	Four 1TB Command View LTU Factory Integrated

* Requires purchase of HP BladeSystem and not available in EMEA. See the preceding table for more information.

Customer Technical Training

Consider education as an integral part of your strategy to get the best return on investment for your HP storage solution. HP offers a variety of training classes on storage software, networking, archiving and disk storage systems. Our classes are available in many delivery modalities from traditional instructor-led classes at one of our 80 training centres worldwide to on-site training customised to your needs or on-line. For more information on these services, please contact your HP representative or visit www.hp.com/learn/storage

Financial Services

HP Financial Services provides innovative financing and financial asset management programmes to help customers cost-effectively acquire, manage and ultimately retire their HP solutions. For more information on these services, please contact your HP representative or visit www.hp.com/go/hpfinancialservices

Supporting software

HP StorageWorks Command View EVA software and HP SmartStart for EVA Storage	<p>HP Command View EVA software provides a comprehensive software suite designed to simplify, enhance and maximise the high-performance EVA family of storage array products. It provides a powerfully simple storage management experience when compared to managing traditional arrays and their storage management products.</p> <p>SmartStart EVA simplifies start-up of the EVA, getting you up and running in just a few minutes.</p> <p>For more information, please visit http://h18006.www1.hp.com/products/storage/software/cmdvieweva/index.html</p>	Required
HP StorageWorks Business Copy EVA software	<p>HP Business Copy EVA offers a unique, powerfully simple integrated management and point-in-time solution in an easy-to-use, efficient and cost-effective business continuance application, offering quick implementation and accelerated payback.</p> <p>For more information, please visit http://h18006.www1.hp.com/products/storage/software/bizcopyeva/index.html</p>	Optional
HP StorageWorks Continuous Access EVA software	<p>HP Continuous Access EVA is a unique, powerfully simple integrated management and remote replication solution in an easy-to-use, efficient and cost-effective business continuance application, offering quick implementation and accelerated payback.</p> <p>For more information, please visit http://h18006.www1.hp.com/products/storage/software/conaccesseva/index.html</p>	Optional
HP StorageWorks EVA Dynamic Capacity Management software	<p>HP EVA Dynamic Capacity Management is a comprehensive software solution that automates storage provisioning and improves capacity utilisation on the HP StorageWorks Enterprise Virtual Array (EVA) family.</p> <p>For more information, please visit http://h18006.www1.hp.com/products/storage/software/eva_dcm/index.html</p>	Optional
HP StorageWorks Secure Path for HP-UX software	<p>HP Secure Path for HP-UX eliminates lost data or system downtime because of a lost connection to the host. Secure Path for HP-UX is available for enterprise customers with mission-critical applications.</p> <p>Refer to http://h18006.www1.hp.com/products/storage/software/securepath/index.html for ordering information and part numbers for Secure Path.</p>	Optional
HP Systems Insight Manager software	<p>HP Systems Insight Manager (SIM) is enclosed as an accessory with all HP StorageWorks arrays. HP SIM is the foundation for HP unified server-storage strategy—it is packaged as value-add software for EVA and is included with the price of the EVA. The software is a customer-installable management application. HP SIM runs on Windows, Linux and HP-UX, providing discovery and identification, fault management, security administration, asset reporting and centralised configuration management throughout heterogeneous servers, storage and infrastructure.</p>	Required
HP Storage Essentials Standard Edition	<p>HP Storage Essentials Standard Edition Storage Resource Management software and Systems Insight Manager with Command View EVA software provides a total solution that allows midsize businesses with limited IT staff to see the big picture, thereby reducing SAN complexity. It supports Windows and Linux servers with small-to-medium HP storage-based SANs, including HP EVA, HP MSA, HP NAS, HP EML Tape, HBAs and fabric devices. HP Standard Edition SRM software unified server and storage toolset automates complex and manual storage processes and tasks with auto discovery, visualisation and topology mapping for quick device identification. The HP Standard Edition SRM software solution integrates with a rich assortment of HP software, including Systems Insight Manager and HP Storage Essentials software.</p> <p>For more information on HP Storage Essentials software, visit http://h18006.www1.hp.com/products/storage/software/std-suite/index.html</p>	Optional

For more information on the preceding StorageWorks software listed, please visit www.hp.com/go/storageworks/software

Technology for better business outcomes

To learn more, visit www.hp.com/go/eva4400

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