



## New HP Virtualized Storage Solutions Reduce IT Sprawl

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### Overview

IT sprawl has brought organizations to the breaking point by increasing complexity, which drives up operations costs and stifles innovation. Today, organizations spend up to 70 percent of their IT budgets managing operations and only 30 percent driving new IT initiatives.

[HP Converged Infrastructure](#) provides the blueprint for organizations to eliminate technology silos, simplify the management of their environment and drive integration across the data center.

Creating a virtual pool of shared storage resources is a key technology in the evolution to a Converged Infrastructure. Two new HP StorageWorks solutions announced today – HP StorageWorks P4800 BladeSystem storage area network (SAN) and the HP StorageWorks Enterprise Virtual Array (EVA) Cluster – enable clients to consolidate servers, storage and desktops by creating [Virtual Resource Pools](#) of capacity. This enables clients to easily shift resources as the organization requires.

### HP StorageWorks P4800 BladeSystem SAN

Organizations also struggle with sprawl from desktops, portables and mobile devices. Data now resides on a large number of devices, which makes it difficult to manage, secure and back up. Client virtualization can simplify management, improve security and reduce backup traffic on the network.

Traditionally, client virtualization requires the complex integration of storage, servers, networking and management. To address this challenge, HP is offering the first client virtualization reference architecture built for a Converged Infrastructure. This comprehensive hardware and software architecture scales to support thousands of virtual desktops in a simple, modular design that is presized and pretested. The reference architecture delivers three times the productivity for IT administrators, supports 1,600 users at 50 percent less cost and requires 60 percent less space than traditional client virtualization implementations.<sup>(1)</sup>

An integral component in the reference architecture is the new [HP StorageWorks P4800 BladeSystem SAN](#), which provides scalable, shared storage for a converged server, storage and networking environment. Built from [HP BladeSystem](#) technology, the new P4800 delivers 63 terabytes (TB) of storage

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capacity with four storage blades connected to 140 disk drives.

Additional benefits include:

- Faster deployment with a pretested and performance-tuned configuration designed for multiple client virtualization software implementations, including Microsoft® Hyper-V with Citrix XenDesktop and VMware View.
- Optimized system performance by balancing the workload across blades and disk drives to avoid storage bottlenecks that occur when too many users log into the network at the same time.
- Increased productivity by distributing storage resources across multiple sites to ensure better business continuity. As a result, end-users have access to data during failure conditions such as power outages and human errors.
- Reduced networking costs and simplified management with HP's [Virtual Connect](#) technology. Integrating the P4800 into the HP BladeSystem enclosure eliminates external storage switches and cables, reducing the need for IT expertise to manage traditional SAN-based offerings.
- Investment protection, since the P4800 works with all the leading virtualization providers, including Microsoft and VMware.
- Greater resource utilization by leveraging the HP BladeSystem for common power and cooling.

#### **HP StorageWorks EVA Cluster**

The new HP StorageWorks EVA Cluster is an integrated solution consisting of multiple EVAs that eliminates disparate “islands” of storage. The EVA Cluster enables clients to manage a single resource pool of capacity containing up to 2 petabytes (PB) of data and nearly 2,000 drives.

As a result, clients can consolidate up to 600 percent more storage than a single EVA array, which reduces complexity, improves capacity utilization and lowers management costs. By providing a virtual pool of storage and a common set of storage features, clients can increase storage utilization up to 300 percent and reduce management costs up to 50 percent.<sup>(2)</sup>

Additional benefits include:

- Improved continuity with transparent failover software that maintains application and availability between arrays to ensure uninterrupted access to data.
- Simplified operations with HP Command View, which enables clients to unify and centralize management of heterogeneous storage products.
- Optimized capacity and availability with a common set of advanced storage features, including thin provisioning to maximize storage utilization, as well



as network-based replication for failover to remote sites.

More information about HP's new virtualized storage solutions is available at [www.hp.com/storage/highlights](http://www.hp.com/storage/highlights).

**Pricing and availability<sup>(3)</sup>**

The HP storage solutions are currently available with U.S. list prices starting at:

- HP StorageWorks P4800 BladeSystem SAN \$270,000
- HP StorageWorks EVA Cluster<sup>(4)</sup> \$ 63,600

- (1) Based on HP internal analysis.
- (2) Based on IDC whitepaper "The Business Value of Storage Virtualization: Scaling the Storage Solution; Leveraging the Storage Investment," February 2009.
- (3) Estimated U.S. street prices. Actual prices may vary.
- (4) Price for only the EVA Cluster Base Starter Kit. Actual price varies depending on client's choice of two EVA arrays, disk drives and switches.

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