



## HP Online and SAN Consolidation Solutions



Your users are constantly requesting—and requiring—higher service levels. But that's just the beginning. At the same time, you are being asked to reduce IT costs, improve asset utilization and increase administrator productivity. And all of this in the context of data that is growing exponentially and scattered across multiple data centers, SANs and arrays.

How can you take control of your online and SAN storage growth and deliver the benefits your company is looking for? Consolidation.

When you consolidate your online storage and SANs you:

- May reduce, even eliminate, application downtime so you can meet your users' service level requirements
- Decrease storage costs by increasing your storage utilization
- Simplify your infrastructure management so your IT staff can be more productive and strategic

HP can help you achieve these benefits. We can design and deliver a consolidated storage environment that balances your business needs and service levels with cost—physically consolidating devices, logically consolidating data and virtually consolidating management to meet your objectives.

Consolidating SAN interconnect devices enables you to join multiple SAN islands to build highly scalable and available storage networks with comprehensive security and unified management.

### Key benefits

- **Improve control**—Consolidated networked storage improves storage asset utilization by housing data in a common pool of shared storage where multiple servers can access it. The HP StorageWorks Modular Smart Array (MSA), Enterprise Virtual Array (EVA) and XP Disk Array products feature scalable array hardware that enables you to use fewer devices and incorporate management tools that offer greater administrative control.
- **Increase scalability**—Disparate Fibre Channel SAN islands can be connected by extending the Fibre Channel infrastructure between them. HP SAN interconnect devices enable you to consolidate multiple SAN islands and build highly scalable and available storage networks with comprehensive security and unified management.
- **Enhance availability**—Housing storage drives directly within an application server has limitations. As capacity is reached, application performance suffers and user productivity is impacted. Adding additional storage also impacts users because it requires these servers to be taken offline. HP storage technology enables you to add, remove or service physical storage without application disruption, reducing the impact on application performance and your users. HP StorageWorks All-in-One Storage Systems allow you to integrate file serving, shared storage array and data protection functions across your organization.

- **Reduce management costs**—By consolidating and automating routine tasks such as storage monitoring, reporting, device discovery and provisioning, you will increase the amount of storage your administrators can manage and free resources to focus on innovation rather than maintenance. HP provides the technology you need to plan, deploy and manage an effective storage consolidation project as well as monitor the system to verify efficient ongoing operations once your consolidation program is complete.

## Solution components

HP Online and SAN Consolidation solutions are comprised of various different hardware and software products including:

- Online Network Storage consolidation
  - HP StorageWorks XP Disk Array
  - HP StorageWorks Enterprise Virtual Array (EVA)
  - HP StorageWorks Modular Smart Array (MSA)
  - HP StorageWorks All-in-One Storage System
  - HP ProLiant Storage Servers
  - HP interconnect devices including B-Class and C-Class switches, host bus adaptors and iSCSI cards
  - HP StorageWorks Enterprise File Services Clustered Gateway
  - HP Information Lifecycle Management (ILM) Tiered Storage solutions
  - HP StorageWorks SAN solutions
- HP Services
  - HP Storage Consolidation Services
  - HP SAN Consolidation Services

## How HP can help

Whether you want to increase application availability, improve your capacity utilization, more effectively protect and maintain information, or enhance the productivity of your administrators, HP has the expertise, the technology and the demonstrated experience to help you achieve your online and SAN consolidation objectives.

We focus not just on technology but on the people and processes that are crucial to your consolidation initiative. We address not only your storage environment—enterprise storage solutions, storage area networks (SAN), network attached storage (NAS)—but how this might impact your overall IT environment including your network, servers and software.

Over the past decade, our global team has implemented more than 5,000 storage consolidation projects for businesses of all sizes, leveraging our broad portfolio of products, software and services that can help you centralize and consolidate your IT resources, reduce costs and better align your business and IT functions to help you meet your changing business requirements.

## HP Services

HP Services has excellent, end-to-end expertise in delivering solutions that help you improve your business agility. From initial assessment and design to technical integration and ongoing support, HP Services can be your single point of contact and accountability.

HP offers a full range of pre-packaged or customized services and solutions. These cover the entire project lifecycle and are delivered by qualified and certified HP professionals or designated channel partners.

Across the globe, enterprise customers rely on HP Services to design, deploy, operate and support the IT systems that run their businesses. HP Services capabilities cover consulting and integration, outsourcing and support services. With more than 69,000 services professionals operating in 170 countries, acknowledged technology leadership and a heritage of innovation in services, HP Services can point to an extensive track record of helping customers improve their ability to support their changing business needs.

For further details, contact your HP sales representative or visit: [www.hp.com/hps/storage](http://www.hp.com/hps/storage)

## For more information

For more information on our solutions, please visit:

- HP Online and SAN Consolidation – [www.hp.com/go/storage/OnlineConsolidation](http://www.hp.com/go/storage/OnlineConsolidation)
- HP StorageWorks consolidation solutions – [www.hp.com/go/StorageConsolidation](http://www.hp.com/go/StorageConsolidation)
- HP storage consolidation service offerings – [www.hp.com/services/StorageConsolidation](http://www.hp.com/services/StorageConsolidation)

## Learn more

To learn more about HP comprehensive IT consolidation offerings, please visit:

[www.hp.com/go/ITConsolidation](http://www.hp.com/go/ITConsolidation)

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To learn more, visit: [www.hp.com/go/storageconsolidation](http://www.hp.com/go/storageconsolidation)

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