



HP StorageWorks 9100 Extreme Data Storage System

Solution brief



Digital content growth is starting to create real challenges for IT managers these days. Between increasingly complex software applications and increasingly powerful capture devices, the size of the average file at most companies is growing, and the need for more storage is becoming increasingly urgent.

But you are not “most companies”

At your place of business, digital content is not “growing” or “accelerating,” it is exploding—blowing the doors right off your already overwhelmed IT environment. Sometimes it seems like the moment you finish upgrading your storage infrastructure you already need to upgrade again. Maybe you work

for a digital animator, an online social community, or a medical imaging business. Perhaps your firm is involved in energy exploration, genome research, or streaming video services. Either way, your digital storage demands are mind-boggling and increasing exponentially every day.

Of course, you do not need a technology vendor to tell you these things—you need a vendor who can provide a storage solution that is going to last beyond next week, next month, or next quarter—one that can scale hundreds of terabytes in a heartbeat and that is radically cheaper than what is currently available.

Introducing the HP StorageWorks 9100 Extreme Data Storage System

The HP StorageWorks 9100 Extreme Data Storage System (ExDS9100) serves and stores hundreds of terabytes or petabytes of file-based data for your expanding applications. Designed to be extremely scalable, affordable and easy to manage, the HP ExDS9100 delivers excellent performance and availability for service providers and enterprise

customers alike. Its ability to independently scale beyond traditional storage systems in both capacity and performance enables scalability up to a maximum configuration of 16 blades with up to 12.8 CPU cores per unit for an astounding 3.2 GB/second of raw performance with up to 820 TB of storage. A single management interface allows the administrator to manage not just terabytes but multiple petabyte systems. And it is highly affordable—with both low overall acquisition costs and low operational costs.

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Capacity blocks



Performance blocks

Extreme scalability

- Handles the most storage-hungry applications with extremely scalable storage infrastructure
- Decreases data center footprint with good performance and density of storage capacity
- Reduces the time required to scale the system with easy performance and capacity upgrades
- Performance and capacity can scale independently to accommodate application needs

Unified management

- Single management interface allows for configuration and control of servers and storage within the system
- Capacity and performance are added and configured with one command
- Zero-downtime maintenance with rolling upgrades

Extreme affordability

- Complete system with hardware and software lowers acquisition cost
- Easy-to-use single management interface drastically lowers administration requirements
- Quick and easy upgrades to performance and capacity allow for lower operational costs
- Provides the unique ability to host applications directly on the system, greatly simplifying the overall application architecture.

Here is how it works

The ExDS9100 is a single system that solves the storage-density, pricing, management, and performance challenges companies are facing today.

Extreme scalability

Is your company streaming content across the Web and dealing with the enormous pressure of exponential user growth, or do you worry just about having enough storage?

Whether you are hosting millions of users or video streams, you need to be able to scale the performance and capacity of your system quickly and easily. With the size of media and application files, and the number of online users growing exponentially, storage and server resources are consumed rapidly and often at unexpected rates.

The HP ExDS9100 represents an extreme commitment to scalable capacity and performance. The base configuration provides three capacity blocks with 246 TB of raw capacity out of the box. But that is just the beginning. If you need more capacity, the maximum configuration can handle up to ten capacity blocks totaling 820 TB of raw capacity. The solution's performance blocks, based on HP BladeSystem server blades, can easily scale up to a maximum configuration of 16 blocks with up to 12.8 cores per rack unit for up to an astounding 3.2 GB/second of raw performance. The performance block design of the ExDS9100 allows customers to enhance system performance seamlessly and there is no need to take the system offline, ever.

Unified management

How important is simplicity of management to your business? Would you prefer that your team focus its energy on productive work rather than just maintenance?

Although the ExDS9100 is a brand new offering, it leverages a powerful package of software that has been proven in extreme data-driven environments. The system as a whole is managed from a single interface. This management interface allows for configuration and control, including monitoring health status, performance utilization, and capacity of servers and storage within the system. Additional storage capacity or server performance can be added and configured on the fly with one simple command. The ExDS9100 handles everything from live cluster configuration to storage and file system provisioning to applying best practices for better performance and availability. Other highlights include one pool of file storage with fully parallel symmetric access from all blades, and multiple access protocols such as NFS and HTTP.

Extreme affordability

Is your budget already stretched thin? Are you concerned about getting the most for every IT dollar you spend?

The HP StorageWorks ExDS9100 has an industry-leading price per terabyte and terabyte per cubic foot, so capital outlays for equipment are reduced. Plus, it comes fully configured, complete with all the hardware and software you need to be up and running quickly. And, its efficient, easy-to-use management interface reduces administration requirements, setting the groundwork for long-term operational cost savings. The ExDS9100 also provides the unique ability to host applications directly on the system, greatly simplifying the overall application architecture while increasing performance and reducing cost.

Why HP?

- When HP StorageWorks is your partner, you have an extensive network of experience and expertise across the globe
- Our change-ready approach helps bridge the gap between the ongoing data explosion and your increasing storage infrastructure requirements
- Volume economics—HP ships more disk drives and servers than anyone else—helps keep your costs low
- HP can uniquely provide a complete solution—including storage, servers, and software—from a single vendor
- Our experience in numerous large, complex Network Attached Storage (NAS) projects gives us the edge to implement extremely scalable NAS

For more information

Do you like what you have heard so far? Learn more about the HP StorageWorks ExDS9100 by contacting your HP sales representative or by visiting www.hp.com/go/extremestorage

HP Services

The HP StorageWorks ExDS9100 is purpose-built to help businesses address the tough technology challenges of today associated with the explosion of rich digital content, mobility, security, and the need for efficient storage of data and access to real-time information when and where they need it.

Almost no other company in the industry matches the breadth, depth, resources, and commitment that the services portfolio of HP can provide. The HP StorageWorks ExDS9100 unifies blades, storage, software, support, and services into a solution that fits seamlessly into your heterogeneous infrastructure.

Helping your business achieve extreme scalability, extreme affordability, and unified management; HP delivers an industry-leading deployment and support services. As one of the world's largest technology companies, HP provides a broad range of support options suitable for a wide variety of needs. You gain the advantage of established methodologies built on the industry's broadest portfolio of integrated storage solutions for enhanced information management and optimization—services that scale to improve availability, performance, deployment, and support.

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

Technology for better business outcomes

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

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