

HP StorageWorks Network Attached Storage

Family guide



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File storage growth—the challenge

Global digital information doubles every 18 months—so if you currently manage 100 TB of data, it'll be 200 TB in 18 months time, and that is just the average. File storage growth drives most of that increase. Managing storage growth is a difficult task on the whole, but the distributed nature of unstructured file-based data adds to the challenge significantly, and drives the need for improved file serving solutions.

Rapid file storage growth, driven by rich media like audio, video, graphics, backup files, and e-mail is impacting businesses more now than ever before. You not only require immediate access to exploding volumes of data, but government regulations and corporate governance are dictating what must be kept, for how long, and the speed with which it must be accessed. Therefore, it is critical that you invest in a cost-effective, modular, file-serving solution that can support your business now and well into the future. Consolidating file data with a dedicated Network Attached Storage (NAS) solution can help you address your changing file serving needs and reduce your cost of ownership by enabling simplified management, better resource utilization, and centralized growth and data protection.

HP StorageWorks NAS solutions—change-ready to deal with your storage complexities

HP StorageWorks NAS solutions change and adapt with your fast-changing organizational storage needs using virtualization, performance-enhanced file systems and operating environments, as well as HP ProLiant and BladeSystem hardware. Together, these industry-standard building blocks allow you to implement faster, scale farther, and respond to data growth more effectively.

Regardless of the size of your organization, HP StorageWorks NAS solutions enable you to control explosive file growth while reducing costs and simplifying data management. HP StorageWorks NAS solutions cover a wide range of customer needs and IT environments. The portfolio includes the following product families:

HP StorageWorks X1000 Network Storage Systems
X1000 Network Storage Systems are the fast and easy way to add Windows-powered shared storage to your small or medium IT environment. They are versatile, unified storage systems that can be a file server (or disk-based backup/replication target), print server, an iSCSI target, or all of the above. X1000

models come with HP X1000 Automated Storage Manager Software (HP ASM) that speeds deployment, simplifies management, and is like getting a storage expert in a box. The X1000 series includes four models to match your budget, environment, and storage needs: the X1400 is a space-saving entry rack-mount platform; the X1600 offers high storage density and a low cost per gigabyte; the X1800 drives high performance and expandability with MSA enclosures; and the X1800sb is a flexible shared storage solution for BladeSystem environments that can also be used as an affordable SAN gateway.

HP StorageWorks X3000 Network Storage Systems

X3000 Network Storage Systems work in conjunction with an array or SAN to create a unified storage solution. X3000 Network Storage Gateways boost the value of an array or SAN by adding Windows-powered IP-based data services to it. You can spend less time and effort on maintenance and deliver a better return-on-investment since an X3000 gateway helps you consolidate to a single, unified storage pool that can serve files to your clients and blocks to your servers via multiple protocols (FC/iSCSI or SAS/iSCSI). Industry standards protect your investment by providing compatibility with your network and storage applications, and the included Microsoft Cluster Server (MSCS) license enables high availability and reduced downtime. The X3000 series has three models to choose from: the X3400 makes gateway services more affordable than ever before; the X3800 provides high-performance file serving and iSCSI for enterprise-class arrays; and the X3800sb can bridge servers internal to a BladeSystem enclosure to external SAN storage.

HP StorageWorks 4400 Scalable NAS File Services

Take advantage of the “shared data” architecture that yields lower management expenses from a shared pool of file-serving nodes and storage with the 4400 Scalable NAS File Services.

HP StorageWorks Enterprise File Services (EFS) Clustered Gateway

EFS Clustered Gateway enables you to create an integrated block and file-level storage solution out of any SAN, consolidating individual silos of storage into a single, shared pool that simplifies storage allocation, yields high utilization, and reduces IT costs.

HP StorageWorks 9100 Extreme Data Storage System (ExDS9100)

The ExDS9100, designed to be extremely scalable, affordable, and easy to manage, delivers excellent performance and availability for service providers and enterprise customers alike. It serves and stores hundreds of terabytes or petabytes of file-based data for your expanding applications.

HP StorageWorks Scalable NAS File Serving Software

Scalable NAS File Serving Software creates a scalable, high-performance file-serving infrastructure that leverages the compute power of multiple file servers working together. With its open “shared data” architecture, customers can reduce the number of file servers under management and see faster performance for Web, media streaming, and thin client services applications.

Why HP?

At HP StorageWorks, we deliver technologies and services that help you bridge the gap between data explosion and storage infrastructure. Being the leader in entry-level NAS systems, and the fact that more data is stored on HP disks than any other vendor, helps us understand that infrastructure matters because it is the foundation for data—and data is the lifeblood of your business. With StorageWorks, you can be confident in your infrastructure and your ability to deliver results because the full power of HP and its partners can be with you every step of the way—helping you unlock the untapped potential of your entire infrastructure. Then, as your business needs change, over 150,000 HP channel partners can help your HP storage change, too, using technologies that implement faster, and scale and network more effectively. We can also help you save both time and money that can reduce your energy needs and lower your management costs.

HP StorageWorks X1000 Network Storage Systems

Deliver Windows-powered unified network storage that is easy to install, easy to manage, and easy to expand to your small, medium, or workgroup IT environment.



X1400 Network Storage Systems

X1600 Network Storage Systems

X1800 Network Storage Systems

X1800sb Network Storage Blade

Models Available	Base model 2 TB SATA model 4 TB SATA model	Base model 6 TB SATA model 12 TB SATA model 5.4 TB SAS model	Base Model 2.4 TB SAS model 6 TB SATA model 3.6 TB SAS model	Base model
Operating System	Microsoft® Windows Storage Server 2008 Standard x64 Edition with Microsoft iSCSI Target and HP X1000 Automated Storage Manager (HP ASM)	Microsoft® Windows Storage Server 2008 Standard x64 Edition with Microsoft iSCSI Target and HP X1000 Automated Storage Manager (HP ASM)	Microsoft® Windows Storage Server 2008 Standard x64 Edition with Microsoft iSCSI Target and HP X1000 Automated Storage Manager (HP ASM)	Microsoft® Windows Storage Server 2008 Standard x64 Edition with Microsoft iSCSI Target and HP X1000 Automated Storage Manager (HP ASM)
Drive Type	SATA and SAS LFF drives supported	SATA and SAS LFF drives supported	SATA and SAS LFF or SFF drives supported, depending on model	146 GB 3G 10K SFF Dual-port SAS two drives included for O/S mirror
Processor	Intel® Xeon® Processor E5504 2.00 GHz	Intel® Xeon® Processor E5520 2.26 GHz	Intel® Xeon® Processor E5530 2.4 GHz	Intel® Xeon® Processor L5506 2.13 GHz
Maximum Capacity	1.8 TB Raw Internal SAS 4 TB Raw Internal SATA 12 TB Raw External SATA	5.4 TB Raw Internal SAS 12 TB Raw Internal SATA 36 TB Raw External SATA	2.4 TB Raw Internal SAS 2 TB Raw Internal SATA 96 TB Raw External SATA	146 GB Raw Internal SAS 0 GB Useable Combine with the SB40c Storage Blade for 1.8 TB internal storage, or use as a gateway to virtually unlimited external storage
Storage Expansion Options	MSA60, MSA70	MSA60, MSA70	MSA60, MSA70	SB40c, or use as a gateway to attach to EVA, MSA, XP, and P4000 arrays/SANs
Storage Controllers	HP Smart Array P212/256 MB Controller with battery-backed write cache (BBWC)	HP Smart Array P212/256 MB Controller with BBWC	HP Smart Array P410i/256 MB Controller with BBWC plus Smart Array P411/512 MB Controller with BBWC	HP Smart Array P410i Controller (RAID 0/1)
Number of Users	10–200, depending on model	100–600, depending on model	200–1,200, depending on model	200–1,000, depending on model
Form Factor	1U Rack	2U Rack	2U or 4U, depending on model	HP BladeSystem c-Class half-height blades
Warranty	3-year parts, 3-year labor, 3-year on-site support (next business day response) plus 1-year standard day/hours software support	3-year parts, 3-year labor, 3-year on-site support (next business day response) plus 1-year standard day/hours software support	3-year parts, 3-year labor, 3-year on-site support (next business day response) plus 1-year standard day/hours software support	3-year parts, 3-year labor, 3-year on-site support (next business day response) plus 1-year standard day/hours software support
QuickSpec URL	http://h18000.www1.hp.com/products/quickspecs/13341_div/13341_div.pdf	http://h18000.www1.hp.com/products/quickspecs/13341_div/13341_div.pdf	http://h18000.www1.hp.com/products/quickspecs/13341_div/13341_div.pdf	http://h18000.www1.hp.com/products/quickspecs/13342_div/13342_div.pdf

Refer to the next page for Related Offerings

HP StorageWorks X1000 Network Storage Systems (contd.)

Deliver Windows-powered unified network storage that is easy to install, easy to manage, and easy to expand to your small, medium, or workgroup IT environment.

Related offerings	
Software	
HP StorageWorks X1000 Automated Storage Manager Software	HP ASM simplifies the creation, migration, growth, and protection of shared storage radically by hiding complexity and presenting it from an application point-of-view. Included with all HP StorageWorks X1000 Network Storage Systems, the software is designed for those with little or no storage expertise and includes tools to easily migrate and manage data using automated best practice logic. It saves time for storage experts, too. Wizards that require only a few mouse clicks to set up and protect file and/or iSCSI storage expertly make the move to unified network storage a quick and painless experience for anyone.
HP StorageWorks Storage Mirroring Software	HP Storage Mirroring Software provides host-based replication and failover to IP-based networks. Installing HP Storage Mirroring Software on X1000 Network Storage Systems enables replication features within HP ASM including streamlined setup of near real-time replication of file shares or application stores to a remote target. For more information: http://www.hp.com/go/storageworks/storagemirroring
HP Data Protector Express Software	HP Data Protector Express Software has a very simple product structure, yet easily enables powerful and robust data protection and disaster recovery. Installing HP Data Protector Express (Backup Server) on X1000 Network Storage Systems enables data protection features within HP ASM, including backup of file shares or application stores using application-aware snapshots to tape, disk, or other removable media targets. For more information: http://www.hp.com/go/dataprotectorexpress
Microsoft® iSCSI Software Target	Microsoft iSCSI Software Target adds block storage capability to Windows Storage Server 2008 and creates a single platform that delivers file, print, and application storage services, all over existing Ethernet networks.
Recommended services	
3-Year HP Proactive 24 Service	For improved stability, availability, and operational effectiveness, HP Proactive 24 Service (P24) provides integrated hardware and software support services designed specifically for your technology. Available 24x7, this 3-year comprehensive hardware and software support solution combines industry-leading technical assistance with proactive account services to cover the entire IT infrastructure.
HP Entry Storage Data Migration Service for Windows	Provides an economical approach to migrate data triggered by a need to refresh or consolidate storage or to create different storage tiers. This service provides HP-managed data migration for customers who purchase HP StorageWorks Storage Mirroring Data Migration software.

Visit the HP Enterprise Library for X1000 Network Storage Systems family data sheet <http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-6267ENW.pdf>

HP StorageWorks X3000 Network Storage Systems

Add cluster-able and easy-to-manage file, iSCSI, and management services to mid-range and Enterprise array/SAN environments to create unified network storage solutions.



HP StorageWorks X3400 Network Storage Systems

HP StorageWorks X3800 Network Storage Systems

HP StorageWorks X3800sb Network Storage Gateway Blade

Drive type	146 GB 3G 15K LFF Dual-port SAS two drives included for O/S mirror	146 GB 6G 10K SFF Dual-port SAS two drives included for O/S mirror	146 GB 3G 10K SFF Dual-port SAS two drives included for O/S mirror
Operating System	Microsoft® Windows Storage Server 2008 Enterprise x64 Edition with Microsoft iSCSI Target and a Microsoft Cluster Server (MSCS) license	Microsoft® Windows Storage Server 2008 Enterprise x64 Edition with Microsoft iSCSI Target and a Microsoft Cluster Server (MSCS) license	Microsoft® Windows Storage Server 2008 Enterprise x64 Edition with Microsoft iSCSI Target and a Microsoft Cluster Server (MSCS) license
Processor	Intel® Xeon® Processor E5405 2.00 GHz	Intel® Xeon® Processor E5530 2.40 GHz	Intel® Xeon® Processor L5520 2.26 GHz
Capacity	0 GB Usable X3000 Gateways are designed to utilize external array/SAN storage	0 GB Usable X3000 Gateways are designed to utilize external array/SAN storage	0 GB Usable X3000 Gateways are designed to utilize external array/SAN storage
Storage Expansion Options	Attach to MSA, P4000, and EVA arrays/SANs	Attach to EVA, MSA, XP, and P4000 arrays/SANs	Attach to EVA, MSA, XP, and P4000 arrays/SANs
Storage Controllers	HP Smart Array P212/256 MB Controller with battery-backed write cache (BBWC)	HP Smart Array P410i/256 MB Controller with BBWC	HP Smart Array P410i Controller
Number of Users	100–400	400–2,000	200–1,000
Form Factor	1U rack	2U Rack	Half-height BladeSystem c-Class
Warranty	3-years parts, 3-years labor, 3-years on-site support with next business day response, 1 year software support	3-years parts, 3-years labor, 3-years on-site support with next business day response, 1 year software support	3-years parts, 3-years labor, 3-years on-site support with next business day response, 1-year software support
QuickSpec URL	http://h18000.www1.hp.com/products/quickspecs/13333_div/13333_div.pdf	http://h18000.www1.hp.com/products/quickspecs/13333_div/13333_div.pdf	http://h18000.www1.hp.com/products/quickspecs/13334_div/13334_div.pdf
Related offerings			
Software			
Microsoft® iSCSI Software Target	Microsoft iSCSI Software Target adds block storage capability to Windows Storage Server 2008 and creates a single platform that delivers file, print, and application storage services, all over existing Ethernet networks. Optional software: HP Storage Mirroring Software, HP Data Protector Software, HP File Archiving Software, and HP Storage Essentials NAS Manager Software.		
HP StorageWorks Command View EVA Software	HP StorageWorks Command View EVA Software provides you with a powerfully simple storage management experience, automates and aggregates storage management to reduce complexity and increase productivity. For more information, visit http://h18006.www1.hp.com/products/storage/software/cmdvieweva/index.html		
Recommended services			
3-Year HP Proactive 24 Service	For improved stability, availability, and operational effectiveness, HP Proactive 24 Service (P24) provides integrated hardware and software support services designed specifically for your technology. Available 24x7, this 3-year comprehensive hardware and software support solution combines industry-leading technical assistance with proactive account services to cover the entire IT infrastructure.		
HP Entry Storage Data Migration Service for Windows	Provides an economical approach to migrate data triggered by a need to refresh or consolidate storage or to create different storage tiers. This service provides HP-managed data migration for customers who purchase HP StorageWorks Storage Mirroring Data Migration software.		

Visit the HP Enterprise Library for HP StorageWorks X3000 Network Storage Systems Family data sheet <http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-6273ENW.pdf>

HP StorageWorks 4400 Scalable NAS File Services

The HP StorageWorks 4400 Scalable NAS File Services offers scalable file serving performance for medium-sized customers that cannot afford any downtime for their business-critical applications.



HP StorageWorks 4400 Scalable NAS File Services

Description	EVA4400 Dual controller array
Number of Drives	96 Note: Maximum
Drive Type	72 GB Solid State Drive; 450 GB 15K Fibre Channel 300 GB 15K Fibre Channel 146 GB 15K Fibre Channel 300 GB 10K Fibre Channel 400 GB 10K Fibre Channel 450 GB 10K Fibre Channel 600 GB 10K Fibre Channel 1 TB FATA
Capacity	96 TB maximum
Type and Number of Disk Enclosures	M6412A Up to eight are supported
Drives per Enclosure	12 maximum
Cache	4 GB
Storage Controllers	Two HSV300
Warranty	3-year parts, 3-year labor, 3-year on-site 9x5 hardware support, with next business day (NBD) support
QuickSpec URL	http://h18000.www1.hp.com/products/quickspecs/13115_div/13115_div.pdf
Related offerings	
Software	HP StorageWorks Continuous Access EVA Software, HP Data Protector software.
Recommended services	
Support Plus/Support Plus 24	Helps you increase the performance and availability of your infrastructure with comprehensive, consistent hardware and software services. Working with HP IT team, HP Services engineers deliver onsite hardware support and over-the-phone software support 13 hours per day, 5 days per week. Service coverage encompasses HP products and selected multi-vendor hardware and software.

HP StorageWorks Enterprise File Services Clustered Gateway

The HP StorageWorks Enterprise Files Services (EFS) Clustered Gateway provides unified storage management. It can create an integrated block and file-level storage solution out of any SAN, consolidating individual silos of storage into a single, shared pool of storage that simplifies storage allocation, yields high utilization and reduces IT costs as compared to traditionally architected storage solutions.



HP StorageWorks Enterprise File Services Clustered Gateway

Ideal for	A file server that delivers scalable file serving performance with availability for mid-range and enterprise customers on an industry-standard platform.
Usable capacity (min/max)	1 TB/2 PB
Raw capacity (min/max)	1 TB/2 PB
Controllers	DL380 G5
Number of drives	1100
Drive types	FC, FATA, SAS, SATA
Drive capacity	146 GB, 300 GB, 400 GB, 1 TB
Drive hot swap	Yes
Transfer rate	Up to 6 GB/s
Connectivity (protocols supported)	Microsoft Networks (CIFS/SMB), Linux/UNIX (NFS v2/3 over TCP and UDP), Web (HTTP 1.1/HTTPS), File Transport Protocol (FTP)
Scalability	Yes, up to 16 File Server Controllers
Snapshots	Yes
Mirroring	Yes
Remote replication	Yes
Thin provisioning	Yes
Interoperability	Windows and Linux
Manageability	Manage Console, Replication, Snapshot, Telnet, E-mail Alerts, DNS, SNMP, Smart Storage Management, Cluster Failover Manager
HP Fibre Channel (SAN) Storage compatibility	MSA, EVA, XP
HP iSCSI Storage compatibility	MSA, EVA
Warranty	2-year parts, 2-year labor, 2-year onsite support, next business day response
QuickSpec URL	http://h18000.www1.hp.com/products/quickspecs/12585_div/12585_div.pdf
Related offerings	
Software	HP Data Protector Software, HP StorageWorks Continuous Access EVA, HP StorageWorks Business Copy EVA, HP StorageWorks Continuous Access XP, HP StorageWorks Business Copy XP.
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 onsite hardware support and over-the-phone software support around the clock.

HP StorageWorks 9100 Extreme Data Storage System (ExDS9100)

The HP StorageWorks 9100 Extreme Data Storage System 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, HP ExDS9100 delivers excellent performance and availability for service providers and enterprise customers alike



HP StorageWorks 9100 Extreme Data Storage System (ExDS9100)

Ideal for	Businesses that need to serve and store vastly growing amounts of file-based data.
Maximum RAW capacity	820 TB
Maximum Useable capacity	600 TB
Maximum Number of capacity blocks	10
Maximum Number of Performance blocks	16 Note: fully symmetric, shared storage
Disk Drive Type supported	1 TB 7.2 rpm 3.5 inch Hot Plug Dual Port SAS Midline Hard Drive
Operating system	Linux
Maximum Data bandwidth	3.2 GB/sec Note: Raw potential throughput
High availability	Self healing; fully symmetrical active/active; hot plug drives; redundant power supplies; redundant fans; dual controllers
Supported RAID levels	RAID 6 (8D +2P)
File Serving support	NFS, HTTP
Form factor	(2) 42U Racks Note: Maximum configuration
Warranty	3-years parts, 1-year labor, 1-year on-site support, next business day response
QuickSpec URL	http://h18000.www1.hp.com/products/quickspecs/13117_div/13117_div.html
Related offerings	
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 onsite hardware support and over-the-phone software support around the clock.

HP Enterprise Library for HP StorageWorks 9100 Extreme Data Storage System Solution Brief <http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA1-9286ENW.pdf>

HP StorageWorks Scalable NAS File Serving Software

The HP StorageWorks Scalable NAS File Serving Software creates a scalable, high-performance file-serving infrastructure that leverages the compute power of multiple file servers working together. With its open “shared data” architecture, Scalable NAS File Serving Software customers can reduce the number of file servers under management and see faster performance for Web, media streaming, and thin client services applications.

HP StorageWorks Scalable NAS File Serving Software

Description	The HP StorageWorks Scalable NAS File Serving Software enables enterprises to consolidate file servers and storage while increasing general throughput, Web-serving, media streaming, and thin-client performance.
Hardware support	HP ProLiant and BladeSystem Servers, HP StorageWorks disk arrays and third party SAN arrays
Strategic initiatives	IT Consolidation/Business Continuity, Virtualization, Migration, SAP Migration
Version	Physical or Electronic License-to-Use
Warranty	2-year parts, 2-year labor, 2-year on-site support, next business day response
QuickSpec URLs	http://h18000.www1.hp.com/products/quickspecs/13173_div/13173_div.html
Related offerings	
Software	HP Data Protector Software, HP PolyServe Software for Microsoft SQL Server.
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 onsite Hardware support and over-the-phone software support around the clock.

HP Services: Scalable, flexible, and reliable—like your storage

Your technology infrastructure has become your business infrastructure—where delivering successful business outcomes is the key goal. The HP integrated end-to-end Storage Solutions are specifically designed to help businesses address today's tough technology challenges 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. No other company in the industry matches the breadth and depth of the HP portfolio of service, its resources, and commitment to improve storage support in a heterogeneous infrastructure. HP Services can help you manage and evolve your storage environment so that you can facilitate future growth, decrease operational costs, and protect data while reducing risk.

To capitalize fully on your HP storage solution—you require a service partner who thoroughly understands your storage technology and system environment. With HP Services, you gain the advantage of established methodologies and the industry's broadest portfolio of integrated storage solutions for enhanced information management and optimization.

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

Factory Express

HP Factory Express is designed to help you get a better return from your IT investment by providing customization, 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 customize hardware to your exact specifications in the factory—helping to speed up deployment and free up internal resources.

Customer Technical Training

Consider education as an integral part of your strategy to get an excellent return on investment for your HP storage solution. HP offers 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 onsite training customized to your needs or online.

Financial Services

HP Financial Services provides innovative financing and financial asset management programs 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

For more information

To learn more about HP StorageWorks Network Attached Storage Solutions, contact your local HP representative or your authorized HP reseller, or visit www.hp.com/go/NAS

You can also visit our other related storage family guides:

- HP StorageWorks Arrays—www.hp.com/go/array/familyguide
- HP StorageWorks tape and disk-to-disk data protection—www.hp.com/go/D2Dtapefamilyguide

To learn more about HP StorageWorks portfolios, contact your local HP representative or your authorized HP reseller, or visit:

- www.hp.com/go/arrays
- www.hp.com/go/tape
- www.hp.com/go/storageblades
- www.hp.com/go/san
- www.hp.com/go/storageworks/software

To quickly find the HP storage products that fit your specific needs, visit www.hp.com/go/product-selector

Technology for better business outcomes

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

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