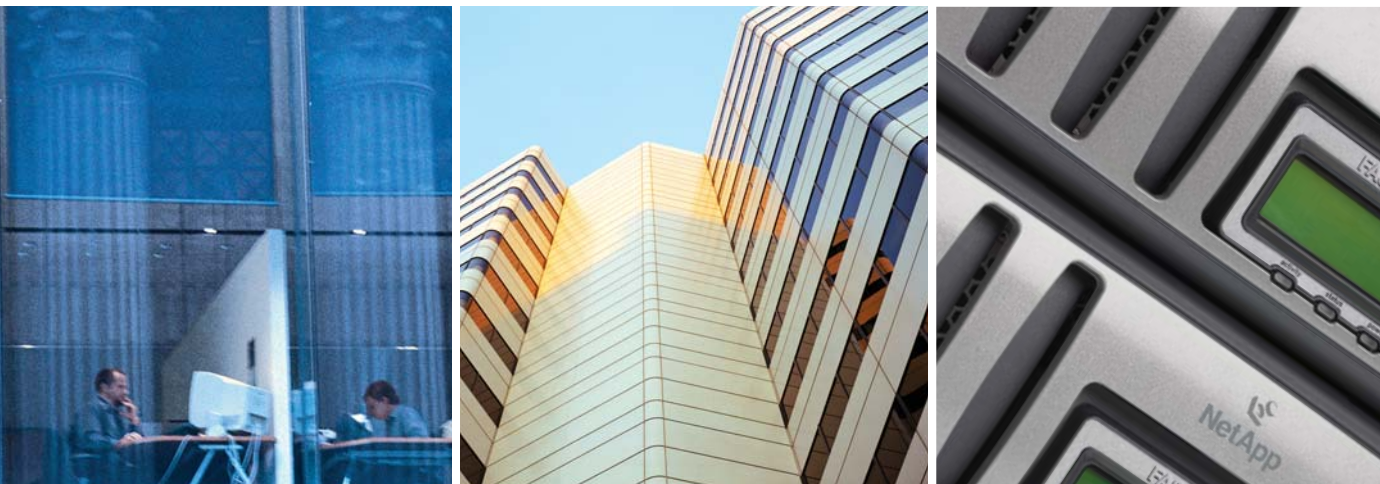


ENTERPRISE STORAGE SOLUTIONS

INNOVATIVE ENTERPRISE STORAGE SOLUTIONS



PRODUCT OVERVIEW

Network Appliance solutions, which consist of hardware, software, and services, help enterprises meet today's major information technology challenges.

Network Appliance addresses major information technology challenges faced by global enterprises and small to medium businesses by simplifying data management with innovative solutions.

NetApp Storage Solutions Simplify Data Management



Network Appliance™ hardware, software, and services help enterprises, businesses, and organizations meet major information technology challenges, such as managing storage growth, assuring secure and timely information access, protecting data, and controlling costs, by providing innovative solutions that simplify data management.

Overcome complex problems with simpler, more straightforward solutions that more effectively utilize your and your customers' assets and resources. Network Appliance can equip your enterprise with comprehensive, flexible, and scalable solutions to your information storage and distribution challenges.

Storage Consolidation

Managing the explosive growth of data is a monumental challenge. How to store data and make it available has become a strategic advantage for industry-leading enterprises.

The Network Appliance approach lets you consolidate storage from hundreds or thousands of servers using simple, powerful tools that help you manage storage efficiently in a mixed networking environment. NetApp solutions give you rock-solid reliability, delivering continuous data.

Data Center Operations

More than just applications and hardware, your data center is the heart of your business, controlling the flow of information throughout your enterprise.

Network Appliance storage solutions provide simple, fast, centrally managed data protection and optimize the performance of your existing storage resources, allowing you to perform complex tasks quickly. Typically, tedious tasks, such as provisioning storage space and backing up terabytes of data, take just a few minutes.

Business Continuance

Now more than ever, your enterprise must focus on disaster preparedness and recovery. Minutes of downtime are costly. Hours of downtime can be catastrophic.

Working in concert with your existing network infrastructure, Network Appliance storage solutions give you comprehensive disaster readiness. You can implement remote site mirroring and disaster recovery plans quickly and effectively, without added administration costs.

Distributed Enterprise

As your enterprise grows, it becomes increasingly difficult to provide timely information to your remote locations and branch offices, jeopardizing their productivity.

NetApp storage solutions can quickly replicate and relay information to one or many locations, providing remote offices with the data, application performance, and online training they need to stay just as current as your headquarters.

NETWORK APPLIANCE, INC.

Unified Storage Solutions from NetApp

Only Network Appliance offers a full line of information storage and access solutions for online, nearline, and distributed data requirements. And only Network Appliance offers unified SAN and NAS solutions to fit into customers' existing or preferred configurations. This unified approach to storage sets NetApp apart in the industry and enables us to deliver what customers demand for their enterprise applications.



NetApp fabric-attached storage (FAS) solution, FAS900 series and FAS3000 series

THE NETAPP PRODUCT LINE CONSISTS OF:

Primary storage systems—FAS systems

Storage virtualization solutions—V-Series

Nearline storage—NearStore®

Content delivery—NetCache®

Data management and content delivery software

Global Services—SupportEdge and ConsultingEdge

Network Appliance enterprise storage and data management solutions provide data-intensive enterprises with consolidated storage, improved data center operations, economical business continuance, and efficient remote data access across the distributed enterprise.

Our highly cost-effective network storage solutions reduce complexity, setting the standard for simplicity and ease of operation. Network Appliance reduces operational complexity and delivers the lowest total cost of ownership (TCO) for your storage infrastructure. An independent research study has demonstrated that Network Appliance offers up to 70% lower TCO versus competing storage solutions in database environments, vastly improving your return on investment (ROI).¹ Our service programs help maintain low TCO and maximize data availability. We have an installed base of products in over 132 countries, and our solutions serve as the data management and storage foundation for leading enterprises, government agencies, and universities worldwide.

1. Source: Mercer Analysis, Database Storage Total Cost Analysis, October 2004.

Hardware Overview

Network Appliance offers four hardware product families: FAS systems, V-Series, NearStore, and NetCache solutions.

FAS Systems

Powerful, scalable, and reliable NetApp FAS systems meet the storage needs of customers ranging from Global 1000 enterprises to small departments by simplifying data management. NetApp FAS systems are easy to install, configure, and manage. They run the resilient and versatile Data ONTAP™ microkernel operating system, enabling concurrent and combined usage in FC SAN, iSCSI, and NAS environments serving Windows®, UNIX®, Linux®, and Web data.

The FAS system portfolio consists of three series: FAS900, FAS3000, and FAS200. The FAS900 series is the flagship line, providing performance, scalability, and resiliency to address the most demanding storage needs of large corporate data center applications, such as ERP and CRM, as well as data-intensive applications such as online reservations and chip simulation. The newly introduced FAS3000 series delivers exceptional value for midtier enterprise data centers and medium-sized businesses, including uses for databases, e-mail, and network storage shares. The entry-level FAS200 series is targeted toward distributed enterprise deployments as well as small business and department-level usage.

V-Series Solutions

The NetApp V-Series product line is an innovative storage virtualization solution that provides unified NAS and SAN access to data stored in Fibre Channel SAN storage arrays, enabling data center storage deployment for an expanded set of business solutions.

NetApp V-Series offers the performance and capacity to meet access requirements for enterprises of all sizes. All models deliver industry-leading performance, offer terabytes of managed capacity, and can be configured for simultaneous active/active access with secure failover across two independent systems in a cluster. Massive SAN and NAS consolidation is now a reality using multiple V-Series systems and SAN storage systems configured in a scalable SAN infrastructure.

NearStore

NearStore technology complements an existing storage infrastructure by simplifying backup, accelerating recovery, and providing a robust solution for remote disaster recovery. NearStore also economically stores terabytes of reference and archival information, including nonrewritable, nonerasable data permanence solutions to enable compliance with regulatory requirements. At a price point near those of optical and automated tape alternatives, NearStore provides much higher performance access. Based on Data ONTAP, NearStore features high measured availability, minimal planned downtime, support for heterogeneous environments, and optimized read/write performance.

The NearStore R200 system is available in 8TB and 96TB configurations. Multiple systems are easily configured and managed to provide hundreds of terabytes of storage to create virtually unlimited capacity.

NetCache

The NetCache product line is a scalable suite of appliances designed to solve complex Web content delivery problems faced by enterprises and service providers. NetCache appliances can be deployed across the entire network, from the primary data center to remote points of presence (POPs) and local offices worldwide. They reduce network latency to improve access to multiple data types for intranet users, e-commerce customers, and partners.

NetCache products include the high-end NetCache C6100 appliance, which delivers high levels of performance and reliability for the data center and other high-bandwidth locations; the midrange C2300 and C3300 appliances, which optimize price/performance by supporting a wide range of capacity and reliability features; and the entry-level C1200, whose attractive price point and space-sensitive design make it ideal for globally distributed enterprises, small and medium-size businesses, and service provider remote POPs.



FAS200 Series



V-Series



NearStore



NetCache

Software Overview

All NetApp storage solutions are configured with the Data ONTAP operating system, which offers a unique set of features to ensure mission-critical availability levels while lowering the TCO and the complexity typically associated with enterprise storage management.

SOFTWARE PRODUCTS AND FUNCTIONS INCLUDE:

SOFTWARE	FUNCTION	SOLUTION	BENEFIT
ApplianceWatch™	Centrally manages and administers NetApp appliances using standard management frameworks.	Data Center Operations	Integration into standard management frameworks
Clustered Failover	Ensures high data availability for business-critical environments by eliminating any single point of failure.	Business Continuation	High availability
DataFabric® Manager	Manages multiple storage systems from a single administrative console.	Distributed Enterprise	Rapid deployment of storage network
Data ONTAP®*	Operating system software that optimizes data serving and allows multi-protocol data access.	Data Center Operations	Seamless integration with UNIX and Windows
FileView®*	A Web-based administration tool that allows IT administrators to fully manage storage systems from remote locations.	Distributed Enterprise	Remote and easy access to storage systems
FlexCache	Enables customers to cache Data ONTAP volumes in multiple filers in compute farm environments.	Distributed Enterprise	Improves performance and enhances the data access time and availability
FlexVol™ and FlexClone™	FlexVol creates multiple flexible volumes on a large pool of disks. FlexClone enables instant replication of data volumes/sets without requiring additional storage space at the time of creation.	Storage Consolidation	Storage space savings
LockVault™	Integrates NetApp SnapLock™ and NetApp SnapVault® technologies to create the only solution specifically designed to address regulatory compliance requirements for unstructured data.	Data Center Operations	Unifies backup and compliance
MetroCluster	An integrated high-availability and disaster recovery solution designed for the campus and metropolitan area.	Business Continuation	Site failure protection with minimal downtime
MultiStore®	Permits an enterprise to consolidate a large number of Windows or UNIX file servers onto a single storage system.	Storage Consolidation	Simplifies tiered storage
NetCache	Prevents nonwork-related surfing, integration with virus-scanning solutions for network security, content usage reporting, and monitoring.	Distributed Enterprise	Optimize and provide secure content delivery
SnapDrive™	Simplifies management and increases availability and reliability of the application data.	Storage Consolidation	Simplifies SAN management
SnapLock	Provides data permanence storage that enables compliance with government records retention regulations.	Data Center Operations	Data permanence for improved business record retention
SnapManager®	Application-specific data management software that provides online backup and recovery.	Data Center Operations	Automated backups and restores
SnapMirror®	Remote mirroring software that enables automated file system replication between sites.	Distributed Enterprise	Transport replication
SnapMover®	Migrates data among NetApp storage systems with no impact on data availability and no disruption to users.	Storage Consolidation	Data migration with no user disruption
SnapRestore®	Allows rapid restoration of a file system to an earlier point in time, typically in only a few seconds.	Data Center Operations	Instant file/volume recovery
Snapshot™*	Enables online backups, providing near-instantaneous access to previous versions of data without requiring complete, separate copies.	Data Center Operations	Near-instantaneous on-disk backup
SnapValidator™	Detects and prevents potential corruptions of Oracle® data by adding intelligence and database awareness to modular storage systems.	Data Center Operations	Detects and prevents potential corruptions of Oracle data
SnapVault	Provides disk-based backup for FAS systems by periodically backing up a Snapshot copy to another system.	Data Center Operations	Faster restores at a lower cost
SyncMirror®	Ensures data is available and up-to-date at all times by maintaining two copies of data online.	Business Continuation	Continuous access to data
VFM™ (Virtual File Manager)	A file virtualization solution for managing distributed storage—direct-attached (DAS) or network-attached (NAS)—in Windows environments.	Distributed Enterprise	Easy-to-manage data

* Software included as a part of the standard operating system.

NetApp Global Services Overview

NetApp Global Services is committed to leveraging the long NetApp history of technology innovation and unparalleled expertise to benefit even the most data-intensive, availability-sensitive IT environments. Whether you need comprehensive services throughout the storage and data management lifecycle or occasional assistance in one or a few targeted areas, NetApp has flexible service solutions to meet your ongoing enterprise needs and ensure your success.

Whether you benefit from pre-sales and post-sales consulting services (NetApp ConsultingEdge Services), technical and customer support services (NetApp SupportEdge Services), or end-user training and certification services (NetApp University and Education), extensive global resources and operations make it possible for NetApp to coordinate and deliver advanced services.

Plan and Design

Strategic Assessments and Solution Architecting. Our NetApp ConsultingEdge Services storage and data management experts leverage years of experience to help customers make the best possible choices.

Implement and Deploy

Total Installation and Integration Services. When it comes to implementing solutions, getting the hardware and software set up and running is only the first step. NetApp ConsultingEdge Services provide complete deployment assistance.

Manage and Optimize

Maximize Your Investment in NetApp Technology. Your storage and data management infrastructure must constantly evolve and adapt to new requirements. NetApp ConsultingEdge Services has the tools and expertise to help you get the most from your investment in NetApp technology.

SupportEdge Standard

The Standard in Customer Service. Flexible, professional remote support services designed for less critical operations within an enterprise or for customers with the expertise and staffing to perform their own on-site service and maintenance.

SupportEdge Premium

When Speed and Knowledge Count. A comprehensive, integrated support program designed to provide proactive services and support and the tools and resources to keep your storage systems running at the highest availability.

NOW™: Award-Winning, Around-the-Clock Goldmine

Available to all NetApp support customers, NOW bolsters NetApp SupportEdge Services by delivering an always-on, secure online library and community of technical assistance.

Training and Educational Services to Increase Enterprise Self-Sufficiency

IT staff is most efficient with appropriate training. The amount of training needed at any given time can vary widely depending on the associated staff experience, products chosen, support levels, and other factors. NetApp Education offers flexible product, best-practice, skill-set, and competency-testing training programs that meet specific enterprise needs, whether minimal or extensive, now and into the future.

Enterprise-Class SupportEdge Services for Swift Resolution and Operational Confidence

Outstanding support services are essential to enterprise success. Responding to troubles after they occur is not good enough. Potential problems must be anticipated and prevented to ensure the highest possible data availability and operational efficiency. In the case of an actual event, having access to the experts who can provide the fastest possible resolution is imperative.

SupportEdge Services

SUPPORT OFFERING	SUPPORTEDGE STANDARD	SUPPORTEDGE PREMIUM*
On-Site Event Support	—	✓
Monitoring, Diagnostics, Repair	—	✓
Software Update and Upgrade Installation	—	✓
Enhanced Case Management and Escalations	—	✓
Hardware and Software Installation	Optional	✓
Parts	Optional**	✓
AutoSupport	✓	✓
Software Subscription	✓	✓
Phone and Online Support—NOW	✓	✓
Storage Availability Audits	Semiannual	Quarterly
Technical Global Advisor	Optional	Optional

*Call for 2-hour, 4-hour, or next business day availability in your area. **NBD parts delivery is included with warranty; 4-hour option available.



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