

Data ONTAP™

Highly optimized, scalable, and flexible operating system for unified enterprise data management.

Key Features

- FLEXIBILITY**
 Enables more efficient storage architectures that adapt easily to the changing needs of the enterprise.
- EASE OF MANAGEMENT**
 Simplifies management, reduces costs, and enables customized policies for each data set.
- ENHANCED DATA AVAILABILITY**
 Provides enhanced data availability, replication, and disaster recovery for multiple-site operations through clustering and mirroring capabilities.
- MULTIPROTOCOL SUPPORT**
 Simplifies data consolidation and sharing.

The Challenge: Managing Explosive Growth and Rapid Change

In today's rapidly changing business climate, your enterprise demands cost-effective, flexible data management solutions that can handle the unpredictable and explosive growth of storage in your heterogeneous environment. To enable global data management, ensure business continuance, satisfy regulatory and compliance standards, and improve resource utilization, you require a flexible and scalable storage network solution. The solution must also minimize complexity and reduce the total cost of ownership (TCO).

The Solution: Flexible Management for Any Environment

Network Appliance™ storage solutions are based on Data ONTAP, a highly optimized, scalable, and flexible operating system that can handle heterogeneous environments. Data ONTAP delivers flexible management and high availability, ensures business continuance, and provides data permanence, thereby reducing storage management complexity in your enterprise. Data ONTAP software integrates seamlessly into UNIX®, Windows®, and Web environments, providing the foundation to build your storage infrastructure.

Robust Scalability and Flexible Management

The innovative Data ONTAP architecture delivers scalable performance and a flexible storage environment, allowing NetApp solutions to meet any need, from small workgroups to enterprise data centers. NetApp solutions store and serve applications, consolidate data, and provide reliable data access throughout the enterprise.

The Data ONTAP operating system simplifies management and optimizes storage utilization by combining patented file-system technology and a microkernel design, enabling such features as:

Flexible data management. Data ONTAP enables more efficient storage architectures with flexible volumes that don't require repartitioning. These capabilities enable you to tailor data management to the requirements of each data set, respond quickly to changing needs of the enterprise, and reduce implementation and management overhead.

Superior scalability. Data ONTAP takes advantage of multiple processors transparently to deliver industry-leading performance. You can consolidate multiple terabytes of data on a single appliance, making NetApp solutions a perfect fit for a variety of database, messaging, Web, and other applications.

Heterogeneous access. Data ONTAP provides transport-independent, seamless data access using block-and file-level protocols from the same platform. NetApp provides block-level data access over a Fibre Channel SAN fabric using FCP and over an IP-based Ethernet network using iSCSI. File access protocols such as NFS, CIFS, HTTP, or FTP provide file-level access over an IP-based Ethernet network. Additionally, SecureShare® cross-protocol locking ensures heterogeneous data sharing without compromising security, compatibility, or performance.

SOFTWARE

Network Appliance software solutions are optimized specifically for the job, are easy to use and administer, and deliver the lowest TCO and maximum ROI.

Maximum Flexibility and Mission-Critical Availability and Reliability

NetApp storage appliances can help reduce costly downtime and maximize access to mission-critical data. A combination of standard features and optional software capabilities allows Data ONTAP to deliver greater than 99.99% field-measured availability. Features include:

The WAFL® (Write Anywhere File Layout) file system. Contributes to a high level of data availability while providing dynamic and flexible data storage containers using FlexVol™ technology as well as data protection using integrated, nonvolatile RAM and patent-pending block-level checksum capability.

Business continuance and regulatory compliance. In today’s business environment, lengthy disruptions to information access and noncompliance with records retention regulations are simply not options. Data ONTAP incorporates several innovative disaster tolerant data protection and recovery features to ensure business continuance and disk-based data permanence features for regulated and reference data.

Integrated RAID. Provides cost-effective protection against multiple disk failures and errors using patent-pending double parity RAID, avoiding disruption of service to users.

Lowering total cost of ownership. Data ONTAP reduces the complexity of deploying, administering, and managing the storage infrastructure in your enterprise, which enables greater efficiency and productivity within your organization.

Easy to deploy. Data ONTAP seamlessly integrates into existing UNIX and Windows environments by utilizing standard naming and authentication services. Additionally, Data ONTAP incorporates a setup wizard to quickly complete basic configuration and installation.

Easy to manage. Wizard-based tools guide you through common management operations. DataFabric® Manager provides centralized, multiappliance management throughout your enterprise.

About NetApp
NetApp Data ONTAP can bring unified, scalable, and flexible data management to your enterprise storage network. Please visit our Web site at www.netapp.com.

Software Overview

SOFTWARE	FUNCTION	SOLUTION	BENEFIT
Clustered Failover	Ensures high data availability for business-critical environments by eliminating any single point of failure.	Business Continuance	High-availability
FilerView®*	Allows IT administrators to fully manage storage systems from remote locations on the network using a Web browser.	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
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
SnapLock™	Provides data permanence storage that enables compliance with government records retention regulations.	Business Continuance	Data permanence for improved business record retention
SnapMirror®	Remote mirroring software that enables automated file system replication between sites.	Distributed Enterprise	Transport replication
Snapshot™*	Enables online backups, providing near-instantaneous access to previous versions of data without requiring complete, separate copies.	Business Continuance	Near-instantaneous on-disk backup
SnapVault®	Provides disk-based backup for FAS systems by periodically backing up a Snapshot copy to another system.	Business Continuance	Faster restores at a lower cost

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



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