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HARDWARE

NEARSTORE® ON FAS

Cost-effective, rapid-access storage ideally suited for backup and restore, online reference data, and data protection.

KEY FEATURES

Extensive Scalability

Starting at 7TB and extending to 504TB, NearStore on FAS offers value to both entry-level and experienced customers implementing and/or enhancing their secondary storage infrastructure.

Superior Flexibility

NearStore on FAS adapts to changing business conditions through the utilization of a comprehensive suite of data protection and data retention tools offered by NetApp.

Optimized Storage Efficiency

Lower storage acquisition costs, increased reliability, and ease of administration help reduce storage TCO.

THE CHALLENGE:

Managing, Protecting, and Providing Rapid Access

As the proliferation of data continues in enterprise data centers, the management and efficiency of storing this data are paramount concerns.

Organizations are managing more data, storing it according to its changing value as it ages, and implementing comprehensive data protection strategies—each of which brings new challenges.

Data management challenges include ensuring access to e-mail and document archives for business and regulatory compliance reasons. They also include matching storage capabilities and costs with information lifecycles, which requires solutions for data search and classification.

The backup and restore aspects of data protection raise concerns about the “high-touch” models of tape storage and the ability to restore from tape. Another aspect of data protection—multisite replication—raises issues of bandwidth utilization and primary storage costs.

To meet this range of challenges, organizations are looking for a solution that fills the price/performance gap between fast but costly primary storage and inexpensive but management-heavy tape storage.

THE SOLUTION:

NearStore on FAS Storage Systems

NetApp NearStore on FAS meets these storage challenges by providing near-primary storage performance at near-tape storage costs.

A disk-based, secondary storage device for enterprise applications, NearStore on FAS perfectly complements and dramatically improves existing tape backup, archiving, and data protection schemes.

A superior archiving solution, NearStore on FAS provides economical storage and rapid disk-based access to reference data to meet business and legal requirements.

For backing up and restoring data, NearStore on FAS can enhance existing operations by acting as a large data cache or replacing tape backup devices altogether.

Combined with NetApp SnapVault®, NearStore on FAS functions as a robust and fully integrated appliance that makes backing up and restoring data rapid and reliable.

In addition, with a much lower cost of acquisition and TCO than primary storage and much better performance than tape, NearStore on FAS is a proven solution for organizations whose multisite replication programs require an economical, high-capacity storage device to be located remotely.

PROVIDING SUPERIOR STORAGE EFFICIENCY

A-SIS deduplication, an integral part of the NearStore on FAS architecture, offers unprecedented storage savings. Application transparent and operating at a block granular level, A-SIS deduplication searches for and removes duplicate data from any NearStore on FAS volume. Tightly integrated with NetApp Data ONTAP® software, A-SIS deduplication operates as a background process with virtually no read/write performance penalty. A-SIS deduplication ensures that your NearStore on FAS system maintains the highest possible storage space efficiency.

SnapVault software, which utilizes incremental block transfers to back up data to NearStore on FAS across a LAN or WAN, reduces network bandwidth consumption. Open Systems SnapVault (OSSV) brings SnapVault capability to heterogeneous remote office backup environments. By implementing SnapVault or OSSV, users can reduce the amount of data to be backed up while also reducing the amount of traffic sent over the network.

SnapVault for NetBackup™ is a feature unique to NearStore on FAS that works in conjunction with Symantec® NetBackup to provide space-optimized backup images and single-file restore capability. Using SnapVault for NetBackup helps minimize management tasks and reduce backup image sizes. This translates to superb TCO benefits.

PROVIDING SUPERIOR DATA PROTECTION

SnapMirror® software, which replicates data at high speeds over a LAN or a WAN, combines with NearStore on FAS to provide the highest possible data availability and fastest recovery for mission-critical applications.

Combining NearStore on FAS with NetApp proven **RAID-DP™** offers significantly more protection than single parity schemes with minimal cost and performance impact. Compared to RAID 1 (mirroring), RAID-DP offers superior data protection against double disk failure at a fraction of the cost of mirroring.

By providing cost-effective, high-capacity secondary storage, NearStore on FAS increases the affordability of data protection strategies, speeds disaster recovery, and can even serve in emergencies as a primary storage device. Combined with SnapVault and SnapMirror software, in addition to the Snapshot™ technology in its Data ONTAP operating system, NearStore on FAS represents a comprehensive, cost-effective, highly reliable data protection solution.

PROVIDING SUPERIOR BUSINESS SOLUTIONS

Regulatory compliance. Superior to tape storage, NearStore on FAS offers random, rapid access to e-mail and other records and documents. Because it scales from 7TB to 504TB, NearStore on FAS offers the capacity to ensure that organizations can economically store and retrieve all their business-critical documents to conform to legal requirements.

SnapLock® enables you to comply with regulatory and best-practices records retention requirements by allowing the creation of nonrewritable, nonerasable WORM volumes on NearStore on FAS storage systems, thereby preventing critical files from being altered or deleted until a specified retention date.

Business efficiency. By reducing the cost per megabyte of storage, NearStore on FAS enables organizations to store and effectively manage much more data than was previously feasible, improving their ability to leverage accumulated organizational knowledge to work smarter and more efficiently.

ABOUT NETWORK APPLIANCE

Network Appliance is a world leader in unified storage solutions for today's data-intensive enterprise. Since its inception in 1992, Network Appliance has delivered technology, product, and partner firsts that simplify data management. Information about Network Appliance™ solutions and services is available at www.netapp.com.

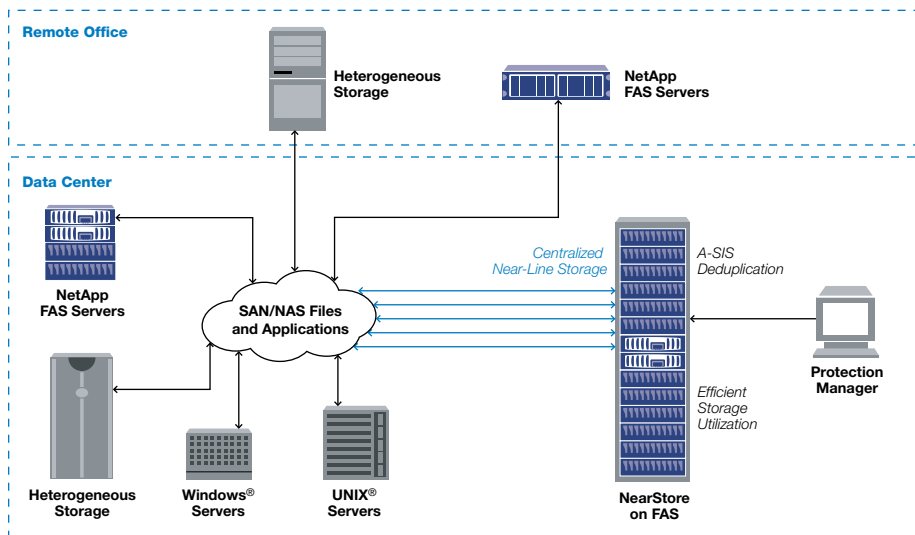


Figure 1) NearStore on FAS storage architecture.

NearStore on FAS is near-line storage, delivering fast and efficient access to secondary storage at a cost per terabyte between that of primary storage and that of tape or optical libraries. Data from many types of primary storage systems can be backed up or archived online to NearStore on FAS via local and wide area networks.

