



NetApp™
Go further, faster



Infrastructure Solutions

NetApp Backup and Recovery Solutions

Simplify backup and recovery while dramatically improving service levels

KEY BENEFITS

Boost Productivity

Reduce backup administration time by up to 75% compared to tape.¹

Increase Availability

Experience 99.999% availability.

Speed Backup and Recovery

Reduce backup and recovery times by 95% or more.²

Reduce Costs

Save significantly compared to tape solutions.³

THE CHALLENGE

Meet backup and recovery windows

Traditional tape backup environments face unprecedented challenges. As data dramatically increases in volume, many companies are finding it difficult or impossible to complete backups within required time frames. Adding to the problem, the speed of today's business requires data recovery times of seconds, while tape recovery can often take hours or even days if the tapes are stored off-site. Information stored on tape is neither easily discoverable for litigation support nor secure enough to store sensitive data in clear text, and the unreliable nature and administrative overhead of tape media make it nearly impossible for many organizations to keep up with the ever-growing demands of business.

THE SOLUTION

Simplify and speed data protection with NetApp's backup and recovery solutions

With advances in cost-effective disk storage technology and highly efficient data management software, you no longer have to rely solely on tape for data backup and recovery.

Rapidly falling disk drive costs combined with more efficient data storage through deduplication and compression make it more economically feasible to add disk to data protection strategies and dramatically improve both the frequency and speed at which backup and recovery can occur.

Our backup and recovery solutions can help you overcome the liabilities of traditional backup systems. We have a complete portfolio of solutions designed to meet even the most stringent business needs and service-level agreements. You can implement our solutions to optimize and consolidate existing tape backup, reduce reliance on tape, or eliminate the need for tape altogether.

Each of our solutions is designed to deliver easy-to-manage, high-speed, cost-effective backup and recovery, regardless of your primary storage. We can also extend your solution to simplify backup search and security so that as your discovery and compliance needs change you have a streamlined solution delivered by a single partner.

“The NetApp solution significantly enhanced backup and recovery speed. Our backups can now be performed four times faster, eliminating the risk of backup delays. We also see better performance in data recovery, which is even more important than backup.”

Kook Dong-Ken

Team Manager, IT Management, Hana Bank

OPTIMIZE DATA CENTER PROTECTION

The NetApp® NearStore® Virtual Tape Library (VTL) brings the advantage of disk backup to your existing tape environment. NearStore VTL supports storage systems from EMC, HDS, HP, IBM, Sun, and of course NetApp.

Our cost-effective NearStore VTL solution requires no changes to your backup software and fits seamlessly into your existing tape environment without disrupting your operational processes. Integrating your NearStore solution is easy: you just redirect your tape backup with your NearStore VTL system as a target. Our NearStore VTL solution is certified for use with all leading backup application software, including Symantec™ NetBackup™, Tivoli Storage Manager, Legato Networker, and others. To help enable a smooth deployment into complex production backup environments, we offer VTL design and implementation services through NetApp Global Services.

In addition to enabling you to perform faster backups and restores than are possible with tape, our Virtual Tape Library delivers advanced application and tape integration so you can quickly and easily move data to and from tape for disaster recovery while extending the life of your existing tape investments. With NearStore VTL Tape Smart Sizing technology you can reduce your tape

costs by as much as 50% compared to other VTLs.⁴ You also get high-performance, hardware-accelerated data compression that reduces the cost of enterprise-class disk backup by 50% to 67%.⁵

PROTECT BRANCH AND REMOTE OFFICES

Simplicity and ease of management are musts at branch and remote offices, where there is minimal to no staff dedicated to data protection. With NetApp's automated, centralized SnapVault® backup and recovery solutions, you can eliminate the complexities of common data protection tasks, freeing up staff and reducing the potential for errors that can result in permanent data loss. Because SnapVault solutions leverage Snapshot™ and replication technologies, you get a faster, more affordable, easier-to-use method for backup and recovery that is perfect for distributed offices.

Increase efficiency and performance

SnapVault increases your efficiency by transferring only changed data blocks, enabling you to perform near-instantaneous, space-efficient backups. With SnapVault, you can see your backup and restore times go from hours to only a few minutes, enabling you to meet tightening backup and recovery SLAs without deploying huge amounts of hardware. You can use our

SnapVault solution in virtually any environment, whether the storage is from NetApp or another vendor.

Simplify management

The combination of NetApp SnapVault software and NetApp management tools can help you reduce management costs by 75%.⁶ With NetApp Protection Manager, you can simplify the management and monitoring of remote office data protection policies while providing an easy way to implement corporate best practices across locations. You get comprehensive backup capabilities with management flexibility thanks to tight integration with backup management applications such as Symantec NetBackup, CommVault, Syncsort, and BakBone.

Lower total cost of ownership

SnapVault disk backup is affordable thanks to more economical SATA disks; block-level data transfers; and space-saving technologies such as deduplication, FlexClone®, and FlexVol®. With SnapVault, you can cost-effectively store hundreds of backups on disk and protect against system or site failure. And because SnapVault performs block-level backups instead of file-level backups, minimal bandwidth is required, enabling remote offices to quickly and cost-effectively back up to core data centers.

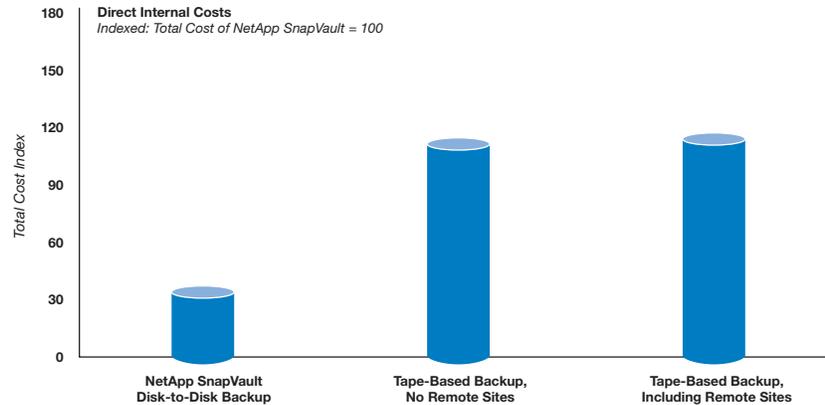


Figure 1) Comparing labor resources for tape-based backup versus NetApp SnapVault systems. A tape system requires four times more labor resources than a NetApp SnapVault disk backup system. Source: Mercer Management Consulting, "Total Cost Comparison of Backup Technologies," February 2006.

MAXIMIZE FUNCTIONALITY AND EFFICIENCY FOR NETBACKUP

When you use SnapVault for NetBackup, you can enjoy the best of both worlds. You get the comprehensive functionality and interoperability that you expect from Symantec NetBackup and the storage efficiency and rapid data recovery you depend on from NetApp. SnapVault for NetBackup easily integrates into a NetBackup architecture as a disk storage unit, where it provides real-time deduplication for reduced capacity requirements, end-user file recovery directly from backup data, and increased reliability for NetApp storage.

ENHANCE YOUR DATA PROTECTION

Our data protection solution portfolio extends beyond traditional backup and recovery with our two special-purpose appliances—NetApp Information Server and NetApp DataFort—that enhance the capabilities of your backup architecture.

You can use the industry-leading information classification and discovery capabilities of NetApp's Information Server family to enable unmatched visibility and control of unstructured data across your enterprise. Our Information Server lets you optimize

backups by eliminating unwanted data and enables you to find archived data instantly. These capabilities are essential to meeting the following requirements:

- High-performance, tiered storage
- Electronic litigation discovery
- Automated compliance policies

Our NetApp DataFort security appliances provide wire-speed encryption to secure your critical backup data, whether it's on tape or disk. With NetApp DataFort, you can cryptographically shred information beyond retrieval to meet the requirements of U.S. regulations such as HIPAA and mandates from the U.S. Department of Defense. With our Lifetime Key Management™ system, you can securely automate the archiving and recovery of encryption keys across your enterprise to make sure that your data is always secure and available.

PARTNER FOR SUCCESS

When you partner with our Professional Services and Global Support teams, you gain access to our extensive storage expertise, innovative technologies, and best practices. You can accelerate the return on your infrastructure investments and get

the most business benefit from them. We respond quickly to your problems, no matter where in the world they occur, and with one of the most flexible support programs in the industry, you always get just the support you need for your unique IT and business requirements.

LEARN MORE

The following references are available at www.netapp.com.

Analyst reports

- Taneja Group: Data Protection for Remote Offices—2006
- ESG: Network Appliance Expands Its Data Protection Portfolio—2006
- Mercer Study on SnapVault Technology—2006
- IDC: NetApp Takes Aim at the Open-Systems VTL Market—2006
- Forrester Study: The Shift to Disk-Based Data Protection Solutions—2006

NetApp technical reports and white papers

- Technical report 3066: Data Protection Strategies for NetApp Storage Systems
- Technical report 3506: Secure Backup—The Time Is Right

“At the remote sites, we no longer need an administrator to run backups—it’s all done automatically with SnapVault back to Houston. And again, because of the efficiency of SnapVault, we have been able to utilize existing T1 connections.”

Bradley Lauritsen

Team Lead, Exploration Computing Department, Apache Corporation

NetApp data sheets

- Remote Office Backup Solution data sheet
- SnapVault data sheet
- NearStore VTL data sheet
- IS1200 data sheet
- DataFort Security Appliances data sheet

1. Mercer Management Consulting Study, February 2006.
2. http://communications.netapp.com/p/Network_Appliance/2007022200000WOD.
3. Mercer Management Consulting Study, February 2006.
4. Veritest: NetApp NearStore VTL600 and EMC CLARiiON DL710 Performance Comparison (July 2006).
5. NetApp Internal test results.
6. Mercer Management Consulting Study, February 2006.

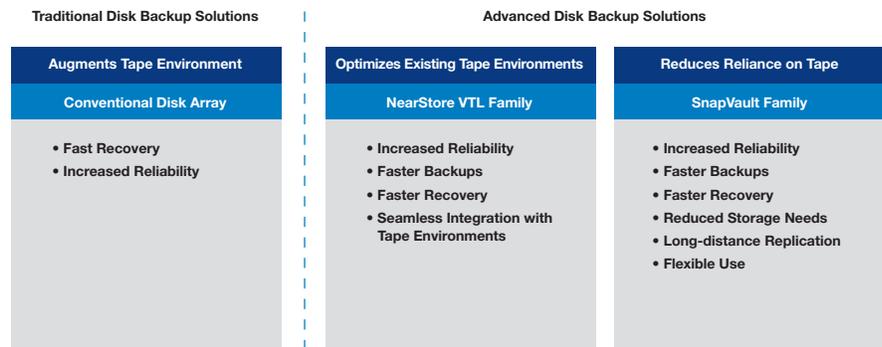


Figure 2) Backup technology solutions.

NetApp creates innovative storage and data management solutions that accelerate business breakthroughs and deliver outstanding cost efficiency. Discover our passion for helping companies around the world go further, faster at www.netapp.com.

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