



NetApp™
Go further, faster



Systems

NetApp NearStore VTL

Speed backup and recovery times and improve restore reliability with our high-performance, disk-based VTL solutions

KEY BENEFITS

Speed backup and restore

Reduce VTL storage costs by up to 67%

Reduce backup management costs

Save money by purchasing fewer physical tapes than other VTL solutions

Protect sensitive data

THE CHALLENGE

Protecting increasing amounts of data with shrinking backup windows

If your organization is like most, you probably use tape as your primary means of backup. However, the more your business grows, the more you deal with shrinking backup windows and demanding restore times. You're not alone in discovering that tape systems no longer meet data protection requirements. To resolve this issue, you may be considering a disk-based solution. Backing up your data to disk increases your backup and restore performance. And, with the right system, you can leverage your existing investment in tape processes and infrastructure.

Virtual Tape Libraries (VTLs) are now an accepted backup solution throughout the business world. With VTLs you get a viable combination of performance and seamless integration for your existing tape environment. But it can be difficult to choose a VTL solution that addresses all of your backup and recovery needs, including:

- High performance
- High capacity
- Ease of use
- Lower total cost of ownership
- Strong security
- Interoperability with existing tape libraries

THE SOLUTION

Speed backup and recovery with our NearStore VTL solutions

You can save time and money with our VTL solutions, which deliver all of the benefits of disk-to-disk backup and recovery without requiring any additional management. You get a powerful combination of performance, scalability, and cost savings with our VTL solutions, which are designed specifically to meet your needs for backup and recovery in the data center.

REDUCE COSTS

You can enjoy 50% to 67% cost savings with NetApp® NearStore® VTL solutions, which use high-speed data compression to increase storage capacity and performance. For example, if you compress your data at the industry-standard rate of 2:1, you can save 50% in storage costs. However, our NearStore systems are capable of compressing data up to a 3:1 ratio, which can reduce your storage costs by up to 67%.

PROTECT EXISTING INVESTMENTS

You can leverage your current hardware and enhance backup and recovery with no additional staff when you implement our NearStore VTL solutions. Our three NearStore systems all fit into your current infrastructure and appear to your current backup application to be a tape library.

BACKUP AND RECOVERY NEED

Cost-effective disk-to-disk backup for enterprise data centers

Shorter backup window

Faster restores

More reliable backups and restores

Reduce ongoing operational costs for tape-based backups

Share backup resources more effectively

Sufficient staff to install and manage new systems

Strong security to protect sensitive backup data

NEARSTORE VTL SOLUTION

Our NearStore VTLs reduce the cost of enterprise-class disk-to-disk backup by 50% to 67% through high-performance disk compression. Using our NearStore VTL systems, you can double to triple the amount of backup data stored on disk. Our systems deliver the high throughput and tape integration required in the most demanding storage environments.

With our NearStore VTLs you can experience dramatic improvements in backup performance with sustained write throughput of more than 6TB per hour. We use high-speed hardware compression and self-tuning technology that automatically and continuously assigns backup streams to the most available disks as data loads change.

You can boost your data restore capability with our ability to maintain a consistent read throughput performance of more than 6.5TB per hour. You have immediate access to your data because our NearStore VTL eliminates the mechanical delays found in tape systems. And you can accelerate restores from physical tape using our tape pass-through mode, which makes data immediately available to your backup application.

You can virtually eliminate backup and recovery failures with our VTL systems. We use reliable RAID-protected storage to safeguard you against the loss of a single disk drive. In addition, we employ a journaled object store (JOS) that writes your data to disk in a self-describing format that withstands even the most catastrophic system failure.

By performing daily incremental backups onto disk with our NearStore VTLs, you save money by reducing the size of the physical tape library and by reducing the number of tape cartridges in use. You can reduce tape costs by as much as 50% compared to other VTLs with our NearStore VTL smart-sizing technology.

You can share your NearStore VTL among your backup servers even if they run different backup application software. And you can optimize the performance of each server and backup environment by creating multiple, dedicated virtual libraries on a single NearStore VTL.

With a NearStore VTL, you get all the benefits of disk-based backup without needing additional management or administration. Our VTL systems are designed specifically for backup administrators. A NearStore VTL is easy to manage and fits into existing workflows that you originally developed for tape-based systems. And to help quickly deploy your NearStore VTL into production and backup environments, we also offer VTL design and implementation services.

You can easily add our strong security to your backup process with the NetApp DataFort encryption option for NearStore VTL. With AES-256 encryption and enterprise key management, you can securely automate archive and recovery of encryption keys across the enterprise.

The systems complement conventional tape drives and libraries by seamlessly inserting disk technology into the backup process, and as a result, your staff needs very little training to use them. Meanwhile, your existing tape libraries continue to create physical tapes for off-site storage. You have multiple options for creating off-site tapes, restoring data, and encrypting sensitive corporate data with our comprehensive NearStore VTL backup solutions.

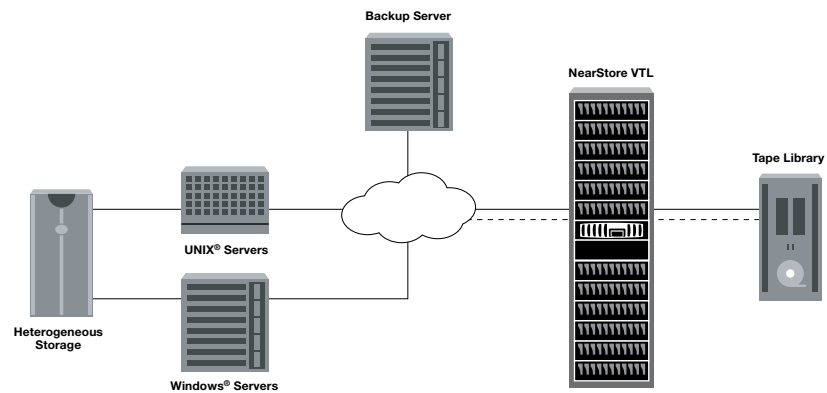


Figure 1) Optimized backup performance with NearStore VTL.

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

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