

## Network Appliance™ Asymmetric Disaster Recovery Solution— A Competitive Advantage

Highly reliable, cost-effective disaster recovery solution for protecting enterprise-wide mission-critical data.

### Key Features

- **ENTERPRISE-WIDE DISASTER RECOVERY**

NetApp storage systems and SnapMirror® software unify enterprise disaster recovery (DR). SnapMirror replicates data synchronously and asynchronously. SnapMirror works between high-end primary storage systems, primary and nearline storage systems, remote offices, and the data center. NetApp unifies the management of different levels of DR throughout the enterprise.

- **REDUCE COSTS**

Decrease acquisition cost by replicating data to NearStore® instead of FAS storage.

- **OFFLOAD BACKUPS**

Run backups 24x7 from the replicated copies on the NearStore system while SnapMirror continues to update the mirrors.

- **DATA PROTECTION CONSOLIDATION**

Multiple systems and sites can consolidate their DR and backup onto easily scalable, centralized NearStore systems to improve manageability of backups and DR.

### The Challenge: Reduce Disaster Recovery Infrastructure Costs, Ensure Recoverability

IT decision makers have been convinced that their organization must have a reliable, cost-effective disaster recovery (DR) solution that spans their infrastructure. All mirrors offer rapid data failover during a disaster, but most require duplicating the primary storage infrastructure in another location. While mirroring between primary storage systems offers high-performance data access in the DR site, it may be unnecessarily costly. Not all data on primary storage requires high-end performance during a disaster recovery. In fact, the cost of duplicating the environment prevents organizations from applying DR protection to extremely important data. The ideal solution ensures reliable, manageable replication of mission-critical data at the appropriate level of price and performance.

### The Solution: Cost-Effective NetApp Asymmetric DR

NetApp offers a cost-effective, reliable disaster recovery solution for a previously ignored subset of mission-critical data. The solution includes NetApp FAS primary storage, NearStore secondary storage, and SnapMirror. NetApp DR is flexible and modular, to meet the varied disaster recovery requirements of your enterprise data.

Since all NetApp systems use the same operating system and software, the NetApp disaster recovery solution does not restrict you to “like-to-like” replication scenarios, but opens asymmetric “primary-to-nearline” mirroring configurations. You have the flexibility to mirror your NetApp primary FAS storage systems to lower-cost NearStore systems, with assurance of superior data security and rapid, complete disaster recovery. NearStore simply enables you to replicate more data for less cost. SnapMirror and the NetApp range of storage platforms help you to provide the appropriate level of DR performance and cost for all your mission-critical data.

### Key Asymmetric Disaster Recovery Solution Components

Key components of the NetApp asymmetric disaster recovery solution include:

**SnapMirror.** Replication software for NetApp storage that reduces backup windows and network traffic by transferring only changed blocks of data. The common NetApp storage software enables you to choose different storage configurations for the source and mirrored systems. For example, your disaster recovery scenario may consist of a clustered FAS system with 6TB of primary storage that uses SnapMirror to replicate 2TB of mission-critical data to a NearStore system or a different FAS system.

### ENTERPRISE SOLUTIONS

Network Appliance storage solutions let you leverage information as competitive advantage, making data available, anytime, anyplace, driving productivity all the way to your branch and remote offices from the central office.

**NearStore storage.** Highly scalable NetApp NearStore nearline storage systems are ideal disaster recovery targets. RAID-DP and Data ONTAP™ create reliable, scalable, multiprotocol nearline storage systems. NearStore systems can be used for DR, regulatory compliance, backup, and data archival.

**Enterprise storage systems.** A scalable suite of highly available, field-proven networked storage systems, NetApp enterprise storage systems are easy to install, configure, and manage and deliver one of the lowest total costs of ownership (TCOs) and highest returns on investment (ROIs) in the industry.

**Delivering Measurable Benefits**

The NetApp asymmetric disaster recovery solution delivers a wide range of benefits for organizations that are seeking to unify their disaster recovery infrastructure across all types of cost and performance requirements.

**Rapid recovery and instant data availability.** NetApp technology gives you a replica of your data as up to date as you choose—synchronous or asynchronous by minutes, hours, or days. When a failure occurs, you simply go back to the most recent copy of your data and quickly resume business.

**Lower TCO, higher ROI.** NetApp disaster recovery solutions are easy to implement and operate, with minimal demand on your IT organization and network administration resources. A NetApp solution integrates smoothly into your existing infrastructure and can be operational almost immediately—without changing the way your network or business works—for both symmetric and asymmetric solutions.

**Superior reliability.** NetApp solutions are sophisticated and powerful, yet straightforward, logical, and reliable. Built-in reliability means virtually no downtime and 24x7 access to mission-critical data for employees, customers, and partners.

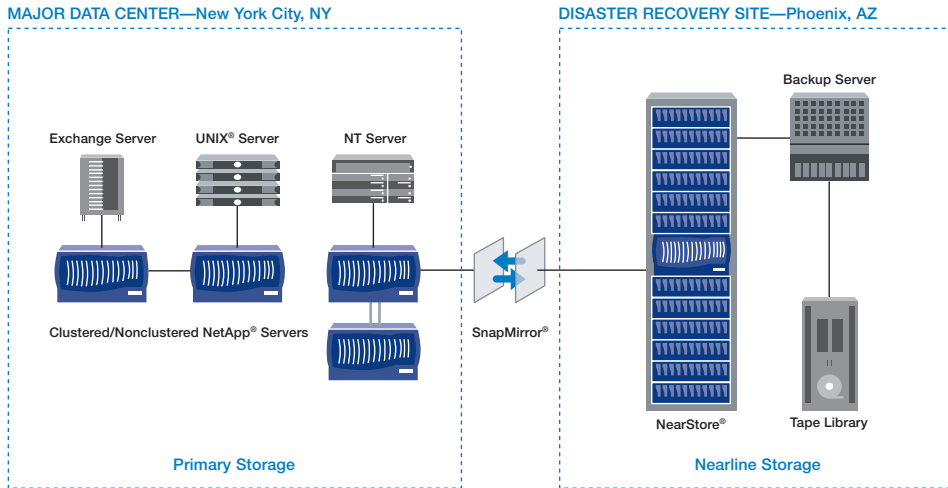


Figure 1) Real world deployment: asymmetric disaster recovery.



**Network Appliance, Inc.**  
 495 East Java Drive  
 Sunnyvale, CA 94089  
 www.netapp.com

© 2004 Network Appliance, Inc. All rights reserved. Specifications subject to change without notice. NetApp, the Network Appliance logo, DataONTAP, NearStore, and SnapMirror are registered trademarks and Network Appliance is a trademark of Network Appliance, Inc. in the U.S. and other countries. UNIX is a registered trademark of The Open Group. All other brands or products are trademarks or registered trademarks of their respective holders and should be treated as such. DS-2493 (0804)