

## SOFTWARE

# SNAPMANAGER® FOR MICROSOFT® EXCHANGE

### KEY FEATURES

#### **Near-Instantaneous Hot Backups and Rapid Restores**

Reduces backup times to seconds and restore times from hours or days to just minutes.

#### **On-the-Fly Scalability**

Allows you to add storage capacity and expand volumes without taking the Exchange server or the NetApp storage system offline.

#### **Storage Administration Task Automation with Wizards**

Streamlines management and automates common tasks to enable administrators to spend less time on maintenance and more time on value-added tasks.

#### **Enables Sophisticated Disaster Recovery Solutions**

Integrates with NetApp SnapMirror® to simplify the remote replication of Exchange data and ensure rapid disaster recovery.

#### **Leverages Existing Infrastructure Investment**

Supports flexible deployment into existing Ethernet, iSCSI, or Fibre Channel environments.

**High availability with fast backup and recovery for Microsoft Exchange data.**

### THE CHALLENGE:

#### **Ensure High Exchange Availability While Reducing Costs**

Microsoft Exchange has become a mission-critical application—studies show that a majority of business-critical information resides in message stores and that the typical Exchange end user spends a significant part of the workday in the Exchange environment. IT administrators are challenged to meet stringent Exchange availability service-level agreements (SLAs) while managing a proliferation of Exchange servers and identifying ways to reduce overall administration and management costs.

### THE SOLUTION:

#### **NetApp SnapManager for Microsoft Exchange**

NetApp SnapManager for Microsoft Exchange is a comprehensive data management solution that streamlines storage management while simplifying configuration, backup, and restore operations for Exchange databases. Deployed in combination with NetApp storage systems, SnapManager software provides near-instantaneous hot backups and rapid restores to deliver an industry-leading combination of availability, scalability, performance, and reliability for Exchange environments.

### MAXIMIZE EXCHANGE AVAILABILITY WITH NEAR-INSTANTANEOUS BACKUP AND RECOVERY

SnapManager software simplifies Exchange data protection by automating processes to provide hands-off, worry-free data management. It enables you to schedule and automate Exchange database backups, use policy-based backup retention management, and simplify the migration of existing databases to NetApp storage systems.

SnapManager also delivers built-in high availability, with features that allow you to expand Exchange databases online. It also offers tight integration with Microsoft Cluster Server (MSCS) and Multipath I/O (MPIO) and with the NetApp Clustered Failover option and SnapMirror for simplified disaster recovery implementation.

In addition, SnapManager has built-in capabilities for nondisruptive, automated backup verification, with three user-configurable verification modes: auto-verification, delayed verification, and no verification. You can also offload verification of backup to other non-production hosts.

## MINIMIZE PLANNED DOWNTIME WITH ON-THE-FLY SCALABILITY

NetApp storage systems with SnapManager enable on-the-fly scalability, allowing you to easily add storage and expand volumes to keep pace with your company's growing storage needs without taking Exchange or NetApp storage systems offline.

## REDUCE THE COMPLEXITY OF EXCHANGE STORAGE

SnapManager delivers consistent online backup of Exchange databases, performing full online backups that require only incremental storage space. You can store up to 255 online copies of Exchange database backups. SnapManager also offers standards-based integration with tape backup products.

SnapManager is tightly integrated with Microsoft Exchange using Microsoft standard interfaces. In the Windows® 2003 environment, SnapManager utilizes the Microsoft VSS Infrastructure, and in the Windows 2000 environment, it integrates with the Exchange Backup APIs.

With SnapManager, you can rapidly recover Exchange databases. You can choose the point in time you want to recover to, up to the minute. SnapManager gives you the ability to try different points of recovery within a single restore operation. Depending on the nature of your restore requirement, you can also choose from a wide range of restore options: full Exchange Server content recovery, individual Exchange storage group recovery, individual Exchange database recovery, and virtual disk recovery. You can even perform individual mailbox recovery with the NetApp Single Mailbox Recovery add-on to SnapManager. SnapManager makes it easy to restore Exchange databases to any server of choice. This helps at the time of disaster recovery and facilitates testing of the snapshot restore procedure before an actual need occurs.

## IMPROVE TCO WITH LONG-TERM INVESTMENT PROTECTION

By significantly improving Exchange availability and simplifying management, NetApp storage systems with SnapManager offer an unmatched low total cost of ownership.

Server consolidation eliminates pools of unused, rapidly depreciating storage, while the ability to add disks on-the-fly further optimizes storage utilization. Streamlined storage management features minimize administrative time and expense, and reduced application downtime lessens the risk of lost business opportunities and productivity.

Finally, the ability to support both Ethernet and Fibre Channel environments allows you to leverage your current network investment while deploying a long-term, highly scalable storage solution.

## SYSTEM REQUIREMENTS

SnapManager for Microsoft Exchange requires:

- SnapDrive® software
- SnapRestore® software
- FCP or iSCSI protocol
- Microsoft Windows 2000 or 2003 Server
- Microsoft Exchange Server 2003 or 2007

## 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](http://www.netapp.com).

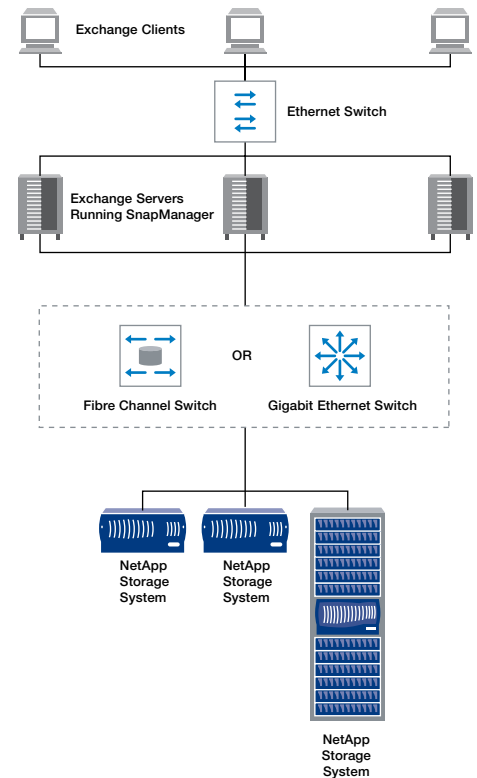


Figure 1) SnapManager in a Fibre Channel/iSCSI environment.

