



Microsoft Exchange Server Data Protection

DELIVERING COMPLETE EXCHANGE DATA PROTECTION

Companies today need to provide access to email and communicate with employees, customers and partners 24 hours a day, 7 days a week. Email is the predominant method of exchanging ideas, generating huge amounts of information that must be immediately available to users to ensure continued business communication. The loss of a single message may generate hours of unnecessary labor for administrators lowering productivity within organizations. As demands placed on mission critical Exchange server's increases, the importance of keeping them online is amplified.

With most Exchange Servers, data protection can be divided into two main objectives; preparing for a disaster recovery where all data is destroyed, and preparing for the restoration of all or some of the application's database data.

Symantec Backup Exec's Exchange Server solutions ensure your business-critical email data is protected against application or hardware-based corruption or loss, user error, or a natural disaster. Designed with flexibility and ease of use in mind, the Backup Exec Exchange solution provides Exchange Server 2000 and Exchange Server 2003 users' complete and customizable protection down to the individual mailbox or even an individual mail message.

IMPROVING EXCHANGE APPLICATION AVAILABILITY

The more your business depends on Exchange, the more important it is to have a complete Exchange Server protection strategy. Since business relies on having Exchange applications available 24 x 7 x 365, Symantec solutions meet these goals with complete on-line data protection. Is your backup window too small for full backup? Symantec offers you solutions to improve you application availability, reduce or even eliminate Exchange backup window concerns. Symantec Backup Exec offers solutions that free up server CPU, in effect, offering zero impact backup, to ensure that the Exchange Server and its users are completely unaware that backups are occurring. When catastrophic failures hit, Backup Exec offers solutions that recover the entire Exchange Server and databases.

KEY BENEFITS

- Protect business critical data while improving application availability
- Scale to meet the needs and budgets of all sizes of business
- Provide fast recovery of entire Exchange database or individual mailboxes and messages
- Eliminate backup windows
- Centralize Exchange backups eliminating the management and hardware cost as well as creation of backups in remote offices.

SOLUTION HIGHLIGHTS

- **Transparent integration** of "hot" Exchange Server backups within regularly scheduled network protection routines
- **Reduction of disk space and tape media** required to fully protect Exchange by leveraging Single Instance Storage (SIS) technology to eliminate backing up redundant copies of the same files sent to multiple users. This technology also **reduces the total time** required to complete backup jobs
- **Perform granular mailbox level backup** to allow you to quickly recover an individual mailbox of message for individual users
- **Provide protection of multiple databases** on a single Exchange server
- **Support of VSS Snapshot backups**, featuring quick recovery and full consistency check. Restore jobs can automatically dismount the database when you begin and mount the database on completion of the job
- **Protect an individual database** within a Storage Group.
- **Automated disk staging** reduces backup windows by quickly backing up to disk, then backing up to tape outside the backup window
- **Perform zero impact backup** in a SAN with Off-Host backups, eliminating the backup-window and significantly reducing resources of the Exchange Server to perform backup. Potential for significant increase in backup speed, as the backup is backing up files and not pulling data through the Exchange Server API
- **Improve Exchange availability** by leveraging the cluster fail-over environments of either Microsoft Cluster Server or VERITAS Cluster Server

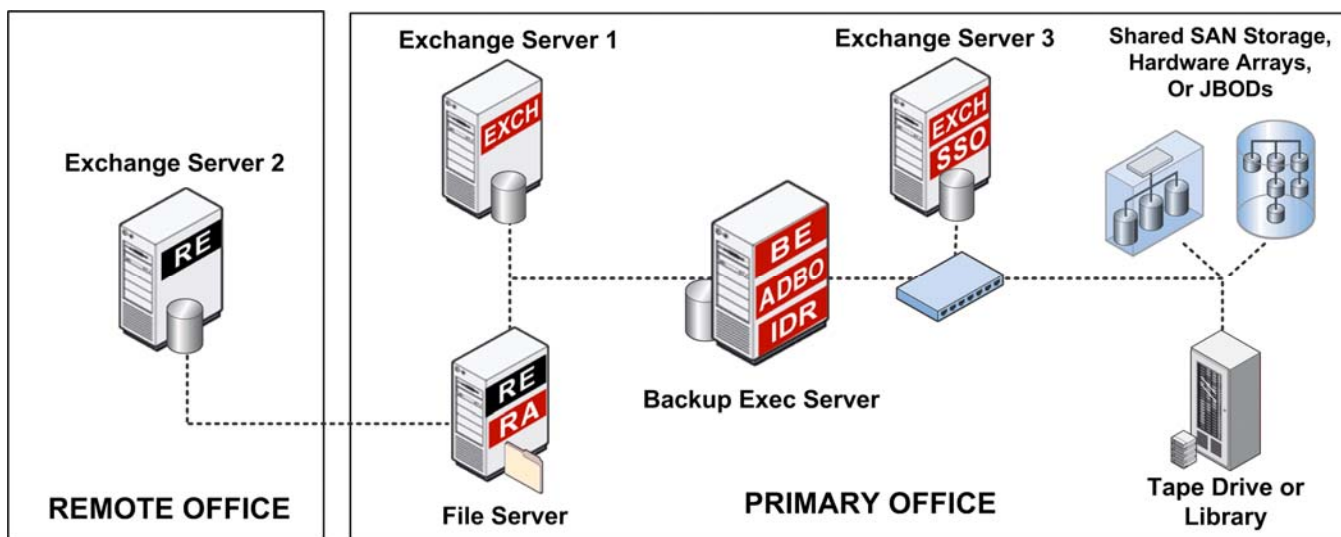
PROTECTING EXCHANGE SERVER

Microsoft Exchange Server data protection can be divided into the following main objectives or goals:

1. Automatically perform non-disruptive MS Exchange data protection, either full database or mailbox level backup
2. Centralize backups of MS Exchange data from remote offices
3. Eliminate the need for a backup window and ensure MS Exchange application performance is maintained during backup
4. Prepare for a disaster recovery where all data (the Windows operating system, Exchange Server application, and its databases) is destroyed.

NOTE: Comprehensive disaster recovery preparation includes protecting the complete Exchange application, Windows operating system, Windows system state, the Exchange Server application directory, and Exchange Server's databases.

COMPONENTS OF A COMPREHENSIVE EXCHANGE SOLUTION



In order to meet these requirements identified above the following components are required.

To accomplish #1:

- Protect the Exchange Server 1 with the Backup Exec Agent for Exchange Server (Exchange)

To meet the needs of #2:

- Protect remote office Exchange Server 2 with Replication Exec (RE), part of the Backup Exec Suite
- Need Replication Exec license on target server in primary office
- Need Backup Exec Remote Agent for Windows Servers on target server (RA)

To achieve the goals of #3:

- Protect Exchange Server 3 by utilizing Backup Exec Advanced Disk Based Backup Option on the Backup Exec Server (ADBO)
- Need Backup Exec SAN Shared Storage Option (SSO) to support disk volume split and rejoin
- Optionally may include VERITAS Storage Foundation for Windows with the FlashSnap Option if Hardware snapshot provider unavailable or uncertified or cost prohibitive

To provide the full disaster recovery solution of #4:

- Utilize Backup Exec Intelligent Disaster Recovery Option (IDR)
- Optionally may include Symantec LiveState Recovery if time to recovery is very short

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