



BACKUP &
RECOVERY

ARCHIVE

REPLICATION

RESOURCE
MANAGEMENT

SEARCH

CommVault Galaxy® Data Protection 7.0 for Microsoft® Exchange Systems

Reliable Data Protection for Exchange Systems and their Environments

Key Benefits

- ▶ Simple-to-use, central browser interface
- ▶ Maximum data availability—granular restore of e-mail messages, attachments, public folders, web folders, and their contents
- ▶ Rapid restore of Exchange databases and systems
- ▶ Seamless VSS integration with Exchange Server 2003 and 2007
- ▶ Add-on e-mail active-archive capability
- ▶ Add-on continuous replication capability to protect remote Exchange and Windows® data

Easily add capabilities for protection, archive, replication and snapshot recovery, all managed from the same Unified Console.

The Business Challenge

Microsoft® Exchange systems are mission-critical to your business. The loss of even one message can have catastrophic effects on communications, customer relations, and e-commerce. Every day, individual e-mail files and folders need to be recovered. Rapid recovery of entire Exchange databases and systems is also critical when disasters occur.

The CommVault® Solution

CommVault Galaxy® Backup & Recovery iDataAgents (iDAs) for Exchange systems protect data residing in Microsoft Exchange Storage Groups, Information Stores, mailboxes, public folders and web folders. This includes selection and restore of individual contacts, calendar items, tasks and mail messages. CommVault Galaxy iDA for Exchange systems makes it practical to obtain object-level Exchange restore by supporting deduplication backup rather than slower brick-level backup. Exchange services also depend on underlying Windows® file system data and Active Directory® services, so the CommVault Galaxy software unified approach to protecting the entire Exchange environment is also critical to an Exchange protection strategy.

Reliable, Efficient Data Protection for Exchange

CommVault Galaxy software delivers unmatched granular online restore down to a single message, contact, task, calendar item or note. Easy, intuitive drill-down browse of all e-mail messages and folders

protected on an Exchange server prevents endless scans of tape sets, and eliminates the need to know the mailbox priv or Storage Group. Sort and search capabilities make it fast to find and select messages by sender, recipient, date and subject line. Optional add-on Content Indexing allows search by any keyword in the message body or attachment. Point and click to select one or more folders and messages from the browsed list, and begin the restore. CommVault Galaxy software restores with message attributes intact, to ensure secure access.

Restore entire Exchange Server systems and Information Stores including private and public stores, Storage Groups, and transaction logs. This comprehensive protection enables rapid rebuild of the entire Exchange system and its environment for disaster recovery.

Use Microsoft Volume Shadow Copy Service (VSS) snapshot protection for Exchange Server 2003, to perform backup of Exchange databases at many points-in-time during a day. CommVault® software becomes a generic requestor, making SAN-attached hardware-based snapshot management consistent across all storage platforms.

Manage Expanding Enterprise Exchange Deployments

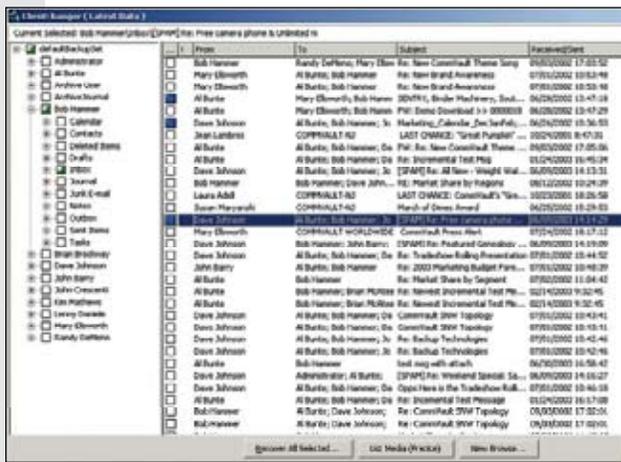
CommVault Galaxy software offers capabilities designed to enable administration of enterprise-wide Exchange deployments. These deployments may include different versions of Exchange, and may need to spread administration tasks across groups.



Microsoft
Windows Server System
Reference Architecture

Microsoft
GOLD CERTIFIED
Partner

2006 TECHNOLOGY INNOVATION
PARTNER OF THE YEAR
ISV/Software Solutions
Finalist



Granular browse, point-and-click selection and restore of individual Exchange messages, contacts, calendar items, tasks and so forth

Key Capabilities

► Simplicity and Ease-of-Use—

CommVault software makes installation, configuration and management easy to learn.

► Web Browser-Based Management—

Administrators can manage Exchange data from virtually any location whether office, hotel or home, that has web access to the CommVault environment.

► Reliable Restore—

Since 1999, Microsoft/IT teams in Redmond have enjoyed the reliability of using CommVault software to manage production Exchange data for their own Exchange and Office product teams as well as other groups within the Microsoft company.

► Cutting-Edge Microsoft® Technology Integration—

CommVault software assists and accelerates the upgrade of Exchange systems and the Windows Server systems that host Exchange services by restoring older Exchange data and older versions of Windows files to newer versions, including Exchange Server 2007 and Windows Server: Codenamed Longhorn.

► Support of Combined Environments—

CommVault software enables management of mixed Windows® and Exchange release versions in the same deployments, easing upgrades and extending the life of older systems.

The CommVault Galaxy Unified Console provides the capabilities to monitor, manage, regulate and protect local and remote Exchange data, anywhere in the enterprise. Different versions of Exchange services can co-exist and can be managed from the same Unified Console, to maximize efficiency. CommVault Galaxy® software also supports Windows Server® 64-bit platforms along with 32-bit systems, to speed data protection operations.

Multiple administrator classes can be defined easily, each with different levels of administration capabilities. Each can also have different Exchange systems assigned, which can be overlapping or discrete depending on what is required. Individual administrator activity is fully tracked and recorded, and is available in a point-and-click report for easy audit oversight. These capabilities enable different classes and categories of administrators to work together efficiently to manage Exchange data according to skill and location.

Accelerate Exchange System Upgrades

After an upgrade is complete, you need to continue to browse, search and restore e-mail messages from older Exchange versions; otherwise you are immediately out of compliance with data retention policies. With other data protection offerings, this means maintaining an older backup server in your environment or paying a premium on service fees to have tapes scanned and older e-mail extracted when you need it.

CommVault Galaxy software evolves along with your Exchange environment by providing full access to browse, search and restore e-mail messages from Exchange 5.5 backup copies into Exchange 2000/2003 mailboxes and databases, and into Exchange Server 2007.

Manage Exchange Along with its Server Environment

CommVault Galaxy software and Exchange iDAs are designed to integrate seamlessly with Microsoft® Windows® technology, and to deliver the full benefit of Windows technology innovations to CommVault customers.

- Active Directory® protection extends the benefits of CommVault mailbox auto-discovery for Exchange 2000/2003 deployments: as users are added to Active Directory User Groups, CommVault auto-discovery will find and protect their Exchange mailboxes.
- With Exchange Server 2003 on Windows Server 2003, Microsoft Volume Shadow Copy Service (VSS) options are fully enabled by CommVault Galaxy software and managed from the same Unified Console for easy administration.
- CommVault Galaxy software also offers unified protection for all Windows applications and files including Exchange, SharePoint® Products and Technologies, SQL Server®, Active Directory, Live Communications Server, Windows Storage Server, Terminal Services, MOM and other Microsoft applications which can be managed and protected with a unified CommVault Galaxy solution deployment.

CommVault experience with Exchange and integration with Microsoft Windows technology is unparalleled. Our partnership with the Microsoft company and the standardization of the CommVault Galaxy solution within the Microsoft company makes this possible. Since 1999, the Microsoft Exchange and Office product teams and development lab have used Galaxy to protect production Exchange systems. CommVault software continues to operate in the Microsoft Exchange “Dog Food” lab where Exchange software is developed, which helps CommVault developers to have more experience with new versions of Exchange as they come to market.

Key Features and Benefits

Features

Benefits

Exchange deduplication for mailbox protection

Provides fast and efficient object-level backup of Exchange messages and folder, to enable fast object-level restore including Outlook extended information such as contacts, calendar items, tasks and mail messages. Deduplication backup is faster and more efficient than the alternative “brick-level” backup, which is typically too slow to be used.

Comprehensive range of independent backup options

Perform full, incremental, and differential backup of Exchange databases and mailboxes; synthetic full can also be used to protect mailboxes. Schedule the backup cycle for Exchange databases and mailboxes independently, and specify independent short and long-term retention periods and media.

Automate Pruning of Exchange Transaction Logs

When incremental or differential database backups are completed, Galaxy software automates the log pruning process to ensure that disk storage is not used up and to eliminate manual disk management tasks.

Network bandwidth throttling

Share network bandwidth for backup and restore jobs, without saturating networks.

Auto-Discover Exchange Mailboxes

Ensure protection of all e-mail, including new mailboxes added after the initial backup scan. Integrated with Active Directory®, to discover and protect mailboxes for new users added to AD User Groups after the initial backup scan.

Backup Filters

Eliminate unnecessary files from the backup job. Use Global Filters to exclude entire mailboxes and folders within mailboxes. Use filter editing to fine-tune filter controls and make changes on-the-fly.

Comprehensive Exchange Browse

Browse across all mailboxes on an Exchange Server with a simple point-and-click drill-down approach, to eliminate searching for mailboxes across tape sets.

Comprehensive Exchange Search

Sort and search within browsed folders, by sender, recipient, date and subject line. Add Content Indexing for search by any keyword in the message body or attachment.

Preservation of Message Attributes

Preserves all attributes like attachments, Outlook® properties, and date/time stamp intact for secure recovery.

Recreates Deleted Exchange Mailboxes On-the-Fly During Recovery

Enables easy and rapid restore of deleted mailboxes.

Cross-Mailbox Restore

Enables faster, better mailbox migration and upgrades.

Out-of-Place Restore

Supports previous versions of Exchange from 5.5 on, to bring e-mail messages forward and ensure continuous recoverability. Accelerates and simplifies planning for Exchange upgrades, and maintains compliance to e-mail retention and recovery rules through upgrades.

One-Pass Restore

Supported on Exchange 2003 and 2007 database backup copies, including for backups on tape and multi-plexed backups.

Changes in a User's Display Name or SMTP Address

When performing a browse or search of the user's mailbox, Exchange agents can accommodate changes and still find and display the mailbox information.

Integrated Windows® System State and Active Directory® Protection

Enables rapid disaster recovery of the entire Exchange server system following a crash. This includes rebuilding the Active Directory Domain Controller containing the Exchange schema.

Key Features and Benefits (continued)

Features

Benefits

Volume Shadow Copy Service (VSS) Support

Integrated to leverage Windows 2003[®] built-in snapshot capabilities for improved RPO/RTO service levels with large Exchange databases. A forced integrity check ensures coherent and recoverable Exchange data. Incremental and differential backup types are supported, along with fulls.

For Exchange Server 2007, out-of-place restores from VSS-enabled backups support recovery to a different storage group on the same Exchange Server or to a different Exchange Server within the same organization.

Recommended and described in Microsoft[®] Windows Server System Reference Architecture (WSSRA)

Provides a best practice recommended by Microsoft[®] for Exchange data management and protection. Improves supportability of the solution, because Microsoft is already working with the CommVault[®] software technology.

Use of CommVault Galaxy Media Agents (backup servers) on UNIX[®], Linux[®], Windows[®] and NetWare[®] for protecting and restoring Exchange data

Enables heterogeneous enterprise environments to scale and protect mission-critical Exchange data according to available infrastructure and desired systems.

Exchange 2007 Cluster Continuous Replication (CCR) and Local Continuous Replication (LCR) Support

Works with CCR or LCR asynchronous log shipping and replication, to appropriately manage and protect Exchange data through a failover. For more information on capabilities specific to Exchange Server 2007, see the "CommVault Data Protection for Exchange Server 2007 Systems" datasheet.

Vista Support

Run the CommVault Unified Console on Vista, for full management options.



CommVault's Simpana[®] suite of Backup & Recovery, Archive, Replication, Resource Management and Search software is designed to work together seamlessly from the ground up, sharing a single code and common function set. This exclusive single-platform architecture enables unparalleled software efficiency, performance and reliability for unprecedented control over data growth, costs and risk.

Additional Solutions for Exchange Systems

CommVault[®] software offers a lower singular suite of data management software built on the same software platform so that all capabilities work together. This makes it easy to add capabilities when and how you need them. For Exchange systems, consider adding:

► **CommVault Galaxy[®] software for SharePoint[®], SQL Server[®] and other Windows[®] platforms and technologies**

- Comprehensive protection for Windows systems, applications and technologies
- Capability to recover, rebuild and resume operations of the interdependent Windows environment on which Exchange services rely
- Simplified management and training

► **Archive Capabilities**

- Reduce the size of the Exchange Information Store
- Extend the life of primary storage devices
- Improve Exchange Server performance

► **Continuous Data Replicator (CDR)**

- Remote Office Data Centralization and Protection
- Disaster Recovery

► **Quick Recovery[®] Software**

- Higher Availability of Exchange Services Using Snapshot Recovery
- More Frequent Points in Time of Protection
- Faster Recovery Time

► **Resource Management**

- Monitor and anticipate primary storage growth requirements, at local and remote offices
- Monitor and anticipate secondary storage growth requirements, such as for storing replicated data copies

System Requirements

Microsoft[®] Exchange systems	5.5, 2000, 2003, 2007 versions
Platforms	Microsoft Windows. Cluster options are supported. 64-bit platform is supported.

Note: System Requirements are subject to change. For up-to-date System Requirements including 32- and 64-bit systems support, please refer to product documentation on the CommVault website at <http://www.commvault.com>

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