

# CommVault Galaxy® Data Protection 7.0 for Microsoft SQL Server Database Systems

Reliable, Enterprise-Class Backup and Recovery Protection

## Key Benefits

- ▶ **Simple to use**—centralized, browser interface
- ▶ **Maximum data integrity**—restart backups from point of failure
- ▶ **Improves data availability**—restore files and file groups
- ▶ **Lowers risk**—automates hot DR strategy to eliminate downtime
- ▶ **Increases System Admin productivity**—automated centralized policy management

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

## The Business Problem

Microsoft SQL Server software is an essential ingredient in business intelligence and e-business applications. A robust backup and recovery strategy is needed to help guarantee the availability of this crucial information. A scalable, reliable data protection strategy is an indispensable component for success with data housed in SQL Server databases.

## The CommVault® Solution

CommVault Galaxy® for Microsoft SQL Server offers high performance, online backup and recovery of Microsoft SQL databases. CommVault Galaxy software is certified as the backup and recovery solution for the Microsoft System Architecture (MSA). CommVault Galaxy software uses MSDN VDI interface to provide parallel backup data streams called “striping” to deliver maximum throughput. CommVault Galaxy solution’s logical view of data improves database availability by making complex data protection strategies much easier to manage and implement.

## Unmatched Data Management and Availability

CommVault Galaxy software offers a broad menu of flexible recovery options. Automate a “hot” disaster recovery strategy that virtually eliminates downtime due to data corruption with the CommVault Galaxy solution. Significant time and resources are saved with the CommVault Galaxy solution’s ability to restart backups from point of failure. Or restore a SQL database to alternative hardware reducing downtime. Point-in-time

restores to the exact second are easy via the intuitive user interface. You can recover a “clean” database without having to manually restore instance after database instance. Using simple GUI options, a SQL Server database can be restored in steps based on backup times without the need to reapply fulls and incremental backups each time.

## Better Data Management of Web-enabled Information

Tight integration with the iDataAgent for Windows and seamless protection of Microsoft SharePoint Portal Server gives you a comprehensive solution to protect sophisticated intranet or internet deployments. Whether it’s a business-to-business e-commerce site or a business-to-customer transaction destination, the CommVault Galaxy solution will completely protect your OLTP or OLAP database, data warehouse or data mart.

## CommVault Galaxy® Backup & Recovery

CommVault Galaxy is a “best-of-breed” data and storage management solution engineered for adaptive deployment, superior performance, and painless automation. Storage Policies, a core capability, make it simple to implement even the most intricate data and storage management strategies and enforce them across the enterprise. Its innovative architecture allows the Galaxy storage management intelligence to adapt to any data or storage model affording seamless support of NAS and SAN storage models.

## Key Features and Benefits

Features	Benefits
<b>Online backup and restore using MSDN APIs</b>	Ensures vital databases are reliably protected, at all times, even under transaction load.
<b>Support for Virtual Device Interface (VDI)</b>	Results in faster backup and restore data movement; Saves time and reduces backup “windows.”
<b>Seamless integration with SQL “striping” capability</b>	Uses multiple data streams writing to multiple tape drives for faster backups.
<b>Parallel data streams for backup and restore of SQL Server databases</b>	Reduces system requirements, improves quality of service levels and helps meet shrinking windows.
<b>LAN free backup with built-in shared storage capability</b>	Reduces cost and increases backup performance by sharing tape devices over switched SCSI or Fiber Channel connections.
<b>File and file group backups</b>	Results in faster backups and restores. Increases database availability.
<b>Automate a “hot” disaster recovery strategy</b>	Eliminates downtime due to data corruption or catastrophic hardware failure.
<b>Automatic restart from point of failure for backup operations</b>	Saves time and ensures data protection by completing failed jobs.
<b>Point-in-time or stepped SQL database recovery</b>	Provides flexible recovery options to more quickly respond to the scope of the data loss.
<b>Automatic discovery of new SQL databases during backup</b>	Assures that newly added data is protected.
<b>Explorer like GUI and Wizards</b>	Ensures faster, more accurate administration of vital tasks for mission critical databases.
<b>Right “Power” click shortcuts</b>	Increases administrator efficiency, saves time and ensures administrative tasks are completed accurately.
<b>User access and security control policies</b>	Create NT, Exchange, SQL user classes and privileges and automatically limit functions to unauthorized groups.
<b>Operational window</b>	Enables enterprise control of all data management activities – backups, restores, jobs.
<b>Universal event monitoring and viewing with filtering</b>	Enable administrators to track, monitor and display ALL or only selected event classes.
<b>Logical, opposed to physical, view of the enterprise</b>	Provides transparent management across different physical entities, like servers, libraries, storage and applications for easier management of complex data protection strategies.
<b>All-inclusive browser-based and MMC snap-in user interfaces</b>	Fully manage all functions of the CommVault Galaxy solution from anywhere, at any time.
<b>Media Management capabilities</b>	Enterprise control of libraries, drives, and media that’s comprehensive, automated and transparent.
<b>Volume Shadow Copy Service (VSS) Support</b>	Integrated to enable full, incremental and differential backup copies of SQL Server databases using VSS. A forced integrity check ensures coherent and recoverable SQL Server data.
<b>Partial Backup and Partial Restore</b>	<p>Partial restores, known as “Piecemeal Restore” in SQL Server 2005, allow databases that contain multiple filegroups to be restored and recovered in stages. The process starts with a restore of the primary filegroup using the <b>Partial Restore</b> option, then a restore or recover of one or more secondary filegroups.</p> <p>Partial backups are supported for SQL Server 2005, by selecting the <b>Partial</b> option on the “Advanced Backup Options” screen. This can be particularly useful as a means of excluding read-only filegroups.</p>
<b>Online Restores</b>	Online restores are supported for SQL Server 2005, allowing a restore of data while the database is online.

## System Requirements

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<b>SQL Server</b>	2000 Standard and Enterprise, 2005 Standard and Enterprise, 2005 Express, 2005 Workgroup, MSDE 2000
<b>Platforms</b>	Microsoft Windows 2000, 2003, 2003 R2, Virtual Server 2005, Virtual Server 2005 R2

**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>

## SIMPANA™ software suite

CommVault's Simpana™ suite of Data Protection, 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.

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