

CommVault Galaxy® Data Protection 7.0 for SAP R3 and NetWeaver Systems

Simplified, Enterprise-Class Protection for Large-Scale CRM Database Deployments

Key Benefits

- ▶ Low-impact, high-performance backups that get large data volumes protected in less time
- ▶ Dramatic recovery performance improvements
- ▶ Comprehensive protection of database application software and data
- ▶ Preserved use of in-house developed recovery scripts
- ▶ Object-level recovery extracted from a full database backup
- ▶ Increased reliability by finding block-level errors when the backup is made—instead of when the recovery is needed
- ▶ More flexible use of SAN to keep backup data off of business networks
- ▶ Redirected restore to make cloning easy and fast, without impact to production SAP deployments
- ▶ Dramatically reduced disk and tape use
- ▶ Improved media handling with built-in tape tracking and rotation management
- ▶ Benefit from CommVault® core competencies for database protection

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

The Business Challenge

SAP databases present a unique combination of factors that make them especially challenging to protect. These factors include:

- ▶ Large data volumes
- ▶ Low tolerance to disruption of application use
- ▶ Complex recovery operations associated with database management

The CommVault® Solution

CommVault Galaxy® data protection for SAP systems is an enterprise-class solution that simplifies and automates data backup and recovery for large-scale, multi-tier SAP deployments. Both SAP R3 and the newer SAP NetWeaver versions are supported. Protection of the Central Instance is integrated with your choice of either Oracle or MaxDB, providing robust capabilities to eliminate recovery failures, significantly speed performance, and assist in full system rebuilds. SAP deployments working with SQL Server databases are also supported.

Rapid backup and recovery combined with efficient disk and tape use ensure that more SAP data is protected in less time, using fewer resources, for dramatically improved SAP data availability.

Increased Productivity and Completed Jobs

CommVault Galaxy software for SAP systems builds on the proven capabilities offered for Oracle systems, to deliver robust and

comprehensive protection of SAP Central Instance databases. The speed of deployment and training is assisted by the CommVault intuitive Unified Console interface. Completing backup and recovery jobs is assisted by fast performance, easy job verification, and features like failover resume which complete jobs even when servers, networks and devices fail. Efficient media management is offered using unique device spanning and pooling capabilities, with mixed drive management and removable media tracking built right in.

Full Range of Backup and Recovery Options

CommVault Galaxy software for SAP systems includes full, partial full, and incremental backup options. A partial full backup contains subsets of table spaces and data files. CommVault Galaxy software also provides multi-streaming capabilities for speeding backup and recovery operations.

Recovery includes database files, including data files, control files and log files. It may also include non-database files and profiles. Redirected restore capabilities enable easy recovery to alternative systems, and SAP data cloning for testing, staging and other purposes.

Full system restore is offered to facilitate rapid recovery in situations where the entire system must be rebuilt. This can occur when a severe problem has occurred on the SAP client system, such as damaged hardware, corrupted operating system, and so forth. Database application

Key Capabilities

▶ Ultra-rapid deployment with existing infrastructure—

CommVault software is easy to install, configure and manage. Support for a wide range of UNIX, Linux and Windows platforms and SAP versions makes it easier to maintain your CRM environment.

▶ Fully configurable user-level security access levels—

Define and assign operational and management activities to different users and user groups.

▶ Flexible Media Agent deployment—

Deploy the backup Media Agent on the same system as the Oracle or MAXDB database to keep backup data off of business networks. Have the option to deploy a second Media Agent on a separate server, to carry the load of SAP database restore and enable re-directed restore with no impact to the production system.

▶ Preserved use of your recovery scripts—

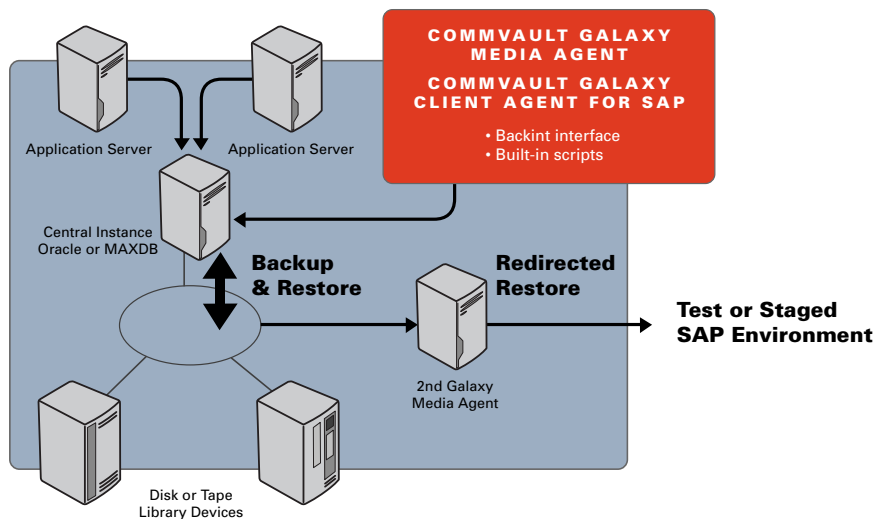
If you have years of time invested in fine-tuning complicated recovery scripts, you can keep them and use them immediately with CommVault Galaxy. The Galaxy CLI “on demand” capability makes this easy and immediate.

▶ Automated Oracle archive log management—

Automatically preserve and prune Oracle log files to save on disk space, as part of the backup operation. Provides easy archive log recovery, with batch restore options when the total size of all the logs exceeds the disk space available.

▶ Corrupt block detection during Oracle backup—

Best practices for managing Oracle backup are built right into the process, with corrective RMAN Block Recovery capabilities enabled.



software is protected with the CommVault Galaxy file system agent, making the application fully recoverable as part of this process.

All backup and recovery operations are initiated from the SAP command line, according to SAP requirements. CommVault Galaxy software is fully integrated with the SAP BACKINT interface and supports the entire command set. CommVault Galaxy software is BAPI certified to ensure excellent integration with SAP functionality, and to enable facilitated support of the combined solution.

More Jobs Complete with CommVault Galaxy® Failover Resume

In the event that a CommVault Galaxy backup server (called a Media Agent) fails, the backup and recovery jobs are automatically resumed on alternate servers. Resume means that the job does not have to restart from the beginning, but resumes from the point of failure. This can be critical for finishing long jobs, such as for backup or recovery of large SAP databases. CommVault Galaxy software also resumes jobs using alternate network connections when networks drop. CommVault Galaxy software uses this same capability to switch backup jobs to alternative disk and tape drives when devices fail. The advanced design of CommVault Galaxy software preserves easy, one-step recovery even when backup copies span tapes.

Point-and-Click Job Management and Reporting

Use the CommVault Unified Console to view and verify the status of SAP backup and recovery jobs. Jobs appear in the Job Controller and Event Viewer windows within the console. Point-and-click reports verify that backup jobs ran—and completed—with fast, at-a-glance efficiency.

Reports can be saved, exported and attached to email for easy distribution. In the same point-and-click interface, reports can also be scheduled to be created and sent on email—without administrator assistance.

Reporting which includes analysis of the use of primary storage by SAP databases and secondary storage for SAP backup copies is also available as an easy add-on to the CommVault Galaxy solution.

Faster Backup with Superior Disk-to-Disk Data Management

CommVault Galaxy software is designed for disk-based data protection, with capabilities for managing data retention across tiers of disk built right in. Each backup Storage Policy defines when and how Auxiliary Copies of the original backup copy are made, and automatically prunes the original copy from disk for efficient space management. Auxiliary Copies can also move data onto tape efficiently and automatically as part of this process.

Disk-based data management combines with superior tape library device management, including support for ACSLS, mixed drive types and bar-coded auto-changers.

SAP Oracle Database Support At-A-Glance

- ▶ Full, Partial Full and Incremental backup
- ▶ Oracle database files, which include datafiles (*.dbf) and control files (*.ctl)
- ▶ Archived redo logs
- ▶ File system protection of Oracle application files and operating system data

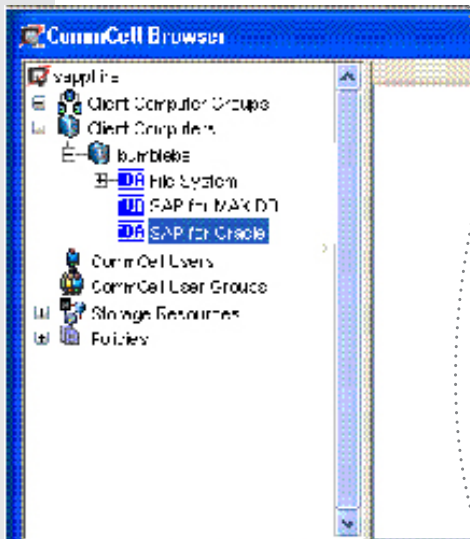
SAP MaxDB Database Support At-A-Glance

- ▶ Full and Incremental backup
- ▶ MaxDB database files and log files
- ▶ File system protection of MaxDB application files and operating system data

SAP SQL Server Database Support At-A-Glance

- ▶ SQL Server capabilities are integrated directly with SAP interfaces
- ▶ CommVault Galaxy software operates normally to protect SQL Server systems in SAP deployments—no SAP agents required

When the SAP Agents are installed, they are shown in the CommVault Unified Console. From here, administrators can monitor SAP backup and recovery jobs, verify job completion, and generate reports. This is also the location from which full system rebuilds are initiated for SAP clients, when File System Agents are also used.



Key Features and Benefits

Features

Benefits

Parallel data streams for backup and restore operations

Increases backup and restore performance. Uses more than one tape device at a time for a single SAP backup or restore, to gain maximum benefits from existing infrastructure.

Integrated, online backup of SAP database and file system data

Non-disruptive protection of SAP applications.

Protection options for SAP database applications along with data

Assists in more rapid rebuild of SAP database systems when severe failures occur. More rapidly recovers operating systems, database application files, and database data when systems are damaged and must be rebuilt.

Integration with SAP BACKINT including the entire command set

Ensures coherent protection of SAP database data, with all options supported by SAP for NetWeaver deployments.

Comprehensive RMAN integration and Oracle archive log management

Ensures coherent protection and recovery of data when Oracle is the underlying database. Automatically preserve and prune Oracle log files to save on disk space, as part of the backup operation.

Web-based browsing to monitor protection jobs, create reports, and initiate full system rebuild recoveries

Intuitive Unified Console makes it fast and easy to learn. Combined with the SAP command interface, the Unified Console provides comprehensive capabilities for managing, verifying and reporting on backup and recovery operations.

Multi-node failover built into the backup node operations

In the event that a CommVault Galaxy backup node (called a Media Agent) fails, the backup and recovery jobs are resumed on alternate nodes. Resume means that the job does not restart from the beginning, but resumed from the point of failure. This can be critical for finishing SAP database jobs, in particular.

Alternate data path failover built in

In the event that a network goes down, Galaxy backup and recovery jobs are resumed on alternate data paths.

Out-of-place restore: Restore SAP database on alternate node

Integrated with SAP systems to enable restored data to be connected to an alternate database node.

Re-directed restore: Restore SAP data on alternate disk

Integrated with SAP systems to enable data to be restored in one-step to another disk. This can also be done using an alternate database node.

Re-directed restore: Database cloning and duplication

Easily create duplicate copies of SAP data, for testing, staging and other operational purposes. This can be used for database refresh, for DR purposes at another site. The process is as simple as performing a restore operation.

Additional Solutions for SAP Systems

CommVault offers a *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 Oracle systems, consider adding:

► **Continuous Data Replicator (CDR)**

- Remote Office Data Centralization and Protection
- Disaster Recovery
- Mount and Self-Restore of Replicated Data by Users

► **Quick Recovery™ Software**

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

► **Resource Management**

- Monitor and anticipate primary storage growth requirements
- Monitor and anticipate secondary storage growth requirements

System Requirements

Databases | Oracle, MaxDB, and SQL Server databases

Platforms | AIX, HP-UX, Linux, Solaris and Microsoft Windows – clustering is supported

Note: System Requirements are subject to change. For up-to-date System Requirements, 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.

www.commvault.com ■ 888.746.3849 ■ E-mail: info@commvault.com

CommVault Worldwide Headquarters ■ 2 Crescent Place ■ Oceanport, NJ 07757 ■ 888-746-3849 ■ Fax: 732-870-4525

CommVault Regional Offices: United States ■ Europe ■ Middle East & Africa ■ Asia-Pacific ■ Mexico & Latin America ■ Canada ■ India ■ Oceania

©1999-2007 CommVault Systems, Inc. All rights reserved. CommVault, CommVault and logo, the "CV" logo, CommVault Systems, Solving Forward, SIM, Singular Information Management, Simpana, CommVault Galaxy, Unified Data Management, QiNetix, Quick Recovery, QR, QNet, GridStor, Vault Tracker, QSnap, Recovery Director, CommServe, CommCell, and InnerVault are trademarks or registered trademarks of CommVault Systems, Inc. All other third party brands, products, service names, trademarks, or registered service marks are the property of and used to identify the products or services of their respective owners. All specifications are subject to change without notice.


commvault
solving forward™