

# CA ARCserve® Backup r12.5 Agents and Options

CA ARCSERVE® BACKUP R12.5 OFFERS WORLD-CLASS HIGH PERFORMANCE DATA PROTECTION THAT COMBINES INNOVATIVE DATA DEDUPLICATION AND POWERFUL STORAGE RESOURCE MANAGEMENT (SRM) REPORTING WITH INDUSTRY LEADING SOFTWARE VTL BACKUP (D2D2T) AND COMPREHENSIVE SECURITY TOOLS; MAKING IT ONE OF THE MOST SECURE, RELIABLE AND EFFICIENT “OUT-OF-THE-BOX” BACKUP SOLUTIONS OFFERED FOR BOTH PHYSICAL AND VIRTUAL SERVERS. WITH ITS WIDE RANGE OF POWERFUL, EASY-TO-USE AND SINGLE MANAGEMENT DATA PROTECTION TOOLS, CA ARCSERVE BACKUP ENSURES THE INTEGRITY AND AVAILABILITY OF YOUR MOST IMPORTANT ASSET — DATA.

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## CA ARCserve Backup Agents and Options

You can easily tailor CA ARCserve Backup to fit your company's storage needs. Just choose from several powerful agents and options to build a solution that is as unique as your business. CA ARCserve Backup Agents let you extend protection to the specific applications you need to support. CA ARCserve Backup Options let you add extensive data protection features, including central management, advanced device and media management, disaster recovery and SAN management capabilities. CA's unique pricing models let you reduce the complexity of procuring, installing, managing and tracking software product licensing keys so you don't need to buy each technology you need individually. Choose from a la carte, Simplified Pricing (SIP) or Managed Capacity Pricing (MCP) models. For more information on the best ways to procure these technologies, see *Buying the Right Agents & Options* on page 5.

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## Overview

CA ARCserve Backup Agents and Options help you customize your storage environment, whether you have one server or many servers, or have an email server that is based on Microsoft Exchange or Lotus Notes, or if your environment runs Windows, NetWare or Linux.

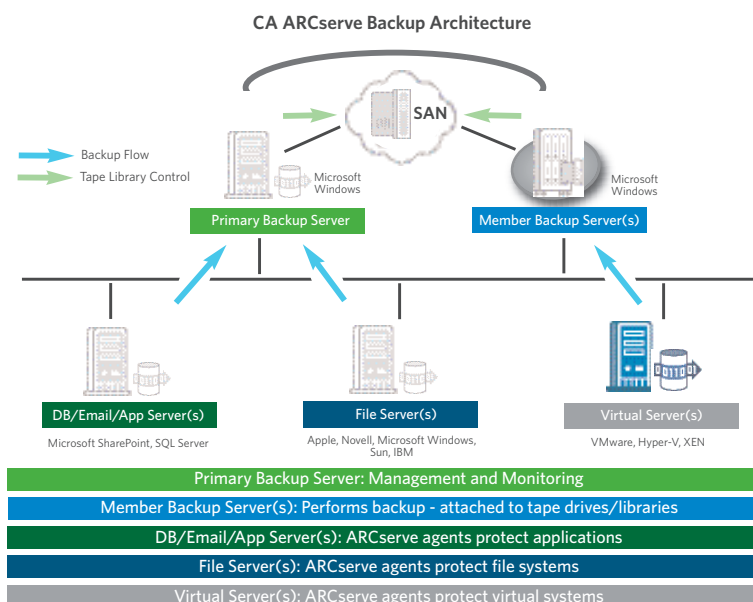
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## CA ARCserve Backup Architecture

CA ARCserve Backup provides a high-performance data protection solution that addresses the needs of businesses with heterogeneous environments. It provides flexible backup and restore performance, easy administration, broad device compatibility, and reliability.

CA ARCserve Backup supports distributed servers in multiple environments, including Linux, NetWare, UNIX and Windows — with new functionality for VMware ESX. Application support extends to key Microsoft products (Exchange, SharePoint, SQL Express, SQL Server, VSS), IBM (Lotus Notes), SAP, Sybase, Informix and others. See *Diagram 1: CA ARCserve Backup Architecture* on page 2.

**Diagram 1: CA ARCserve Backup Architecture**



## CA ARCserve Backup r12.5 for Windows

With release 12.5, CA ARCserve Backup includes the following industry-leading features, out-of-the-box:

**DATA DEDUPLICATION *New!*** CA ARCserve Backup now provides integrated data deduplication to provide you with a cost-effective way of reducing storage needs while protecting critical data. Data deduplication significantly improves the economics of disk-based solutions for backup by enabling longer retention periods on the same size disks. It is easy to manage, configure, and integrate deduplication into existing backup environments.

**DASHBOARD WITH STORAGE RESOURCE MANAGEMENT (SRM) REPORTING *New!*** CA ARCserve® Backup Dashboard with built-in SRM is an out-of-the-box solution that offers graphical insight into your backup environment, including near-real-time and historical information on the storage hardware and software. It allows you to find the backup job status of historical and recent jobs, find the nodes that are taking the longest time to back up, the location of backed up data, whether data is encrypted and ready for disaster recovery, information like volume, disk usage, memory, CPU, NIC, SCSI and fiber cards on each of the production servers. In addition to aiding in improving the performance and reliability of your backup environment, it also helps manage growth planning across your server and storage environment.

**ACCESS CONTROL AND AUDITING *New!*** CA ARCserve Backup provides you with a stronger security model to control which users have access to backup resources. The new model lets you define roles with limited resource access permissions. In addition, it integrates Windows authentication into the role management process, as well as the critical operation audit log.

**ENCRYPTION KEY MANAGEMENT *New!*** CA ARCserve Backup now provides you with password management capabilities for encryption keys to help you recover encrypted backup data. It eliminates the need to repeatedly provide passwords for recovery purposes and, you are notified when you need to change passwords.

**MEDIA ASSURE *New!*** CA ARCserve Backup now has Media Assure technology to validate the backup data saved on your backup media is readable and writable. It helps you verify whether media is accessible without your identification, as well as report on the usability of the media and data.

**FLEXIBLE BACKUP DEVICE *Updated!*** CA ARCserve Backup now supports backing up to different devices, tape, VTL, FSD or deduplication devices. You do not need any special agent or option. You can back up to any kind of device you want.

**CENTRALIZED MANAGEMENT AND ADMINISTRATION** CA ARCserve Backup has been designed to support a three-tier architecture and provides you with a centralized management console that allows your administrators to manage, modify and control backup and restore jobs, media devices, activity logs, alerts, catalogs, product licensing and reports from a single point including local, remote servers and remote offices.

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## CA ARCserve Backup r12.5 Agents

CA ARCserve Backup Agents let you extend protection to the specific applications you need to support.

**CA ARCSERVE® BACKUP AGENT FOR VIRTUAL MACHINES** *New!* The new Agent for Virtual Machines allows you to perform image level and file level backups and restores on both VMware and Microsoft Hyper-V virtual machines, as well as file level restores from image level backups (Granular Recovery). It lets you set up a rotation or schedule of a full, raw level backup and daily, file level, incremental/differential backups (mixed backups) on virtual machines resulting in reduced backup media requirements.

**CA ARCSERVE® BACKUP AGENT FOR MICROSOFT EXCHANGE** The Agent for Microsoft Exchange delivers the fastest and most flexible online protection of Microsoft Exchange server databases and database objects, and provides simple recovery options. Agent for Microsoft Exchange also provides the ability to backup/restore a single instance from/to Exchange Server, which is known as Exchange Doc Level protection. Moreover, with Recovery Storage Group any single instance can be restored from the database session as well.

**CA ARCSERVE® BACKUP AGENT FOR MICROSOFT SHAREPOINT** The Agent for Microsoft SharePoint provides high performance and reliable “hot” backup of Microsoft SharePoint databases. The agent protects all databases, such as content databases, configuration databases and search indexes databases. The agent protects single server or distributed server farm configurations. Using the agent, you can specify SharePoint data for backup and restore operations from a single machine in the user interface, regardless of which machine in the SharePoint Server Farm the SharePoint data resides on. The agent can just be deployed on a single server in the SharePoint Server Farm, which significantly simplifies the deployment process.

**CA ARCSERVE® BACKUP AGENT FOR OPEN FILES FOR WINDOWS** Ensures complete backup of all files, which includes files that are open and in use (for example, documents, spreadsheets, drawings, publishing files, and more). This capability eliminates backup downtime and assures the complete protection of all data and file systems. Agent for Open Files for Windows is also tightly integrated with Microsoft VSS, thus it can provide consistent data backup.

**CA ARCSERVE® BACKUP CLIENT AGENTS** Client Agents let you extend data protection to heterogeneous client machines, including support for Windows desktops. Client Agents improve performance and security, and extend data protection to a wide variety of clients including multiple Windows Server 2003, Windows Vista, and Windows Server 2008 servers, as well as other platforms such as NetWare, UNIX, and Linux (Including Mainframe Linux). Release 12.5 Client Agents can also support data deduplication and SRM reporting.

**CA ARCSERVE® BACKUP AGENT FOR MICROSOFT SQL SERVER** The Agent for Microsoft SQL Server lets you perform high performance backup and recovery for active Microsoft SQL Server 2005/2008 databases, and native support for 32-bit, 64-bit (x64 and IA64) platforms, with granular protection to the individual database or file group. The agent ensures complete data and transactional integrity by performing consistency checks on all physical and logical links before and after each backup and restore operation.

**CA ARCSERVE® BACKUP AGENT FOR LOTUS DOMINO** The Agent for Lotus Domino communicates with Lotus Domino and CA ARCserve Backup to provide rapid back up of active Lotus Domino databases on local or remote servers.

**CA ARCSERVE® BACKUP AGENT FOR ORACLE** The Agent for Oracle provides protection of your Oracle databases while in use, enabling complete data and transactional integrity. The agent is tightly integrated with Oracle Recovery Manager (RMAN) on Windows, Linux and UNIX system, as well as native support for 32-bit, 64-bit(x64 and IA64) platforms. Moreover, it still supports full function of file level backup and restore jobs on Windows.

**CA ARCSERVE® BACKUP AGENT FOR SYBASE** The Agent for Sybase ensures round-the-clock protection of your Sybase databases and transaction logs while in use. The agent supports Sybase Adaptive Server.

**CA ARCSERVE® BACKUP AGENT FOR IBM INFORMIX** The Agent for IBM Informix lets you perform comprehensive backups of IBM Informix objects (for example, log files, root databases, blobspaces, and critical and non-critical dbspaces). The agent works with CA ARCserve Backup and your Informix server's backup and restore facilities to deliver a powerful and easy-to-use backup and restore solution for Informix environments.

**Note:** The Data Deduplication and Dashboard features are available with all the CA ARCserve agents at r12.5 level.

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## CA ARCserve Backup r12.5 Options

CA ARCserve Backup Options extend data protection throughout your organization and deliver enhanced functionality, including, central management, advanced device and media management, disaster recovery, and SAN management.

**CA ARCSERVE® BACKUP CENTRAL MANAGEMENT OPTION** The Central Management option lets you manage and control backup and restore operations on multiple backup servers from a single console, which dramatically reduces the time required to administer and manage your backup operations.

**CA ARCSERVE® BACKUP DISASTER RECOVERY OPTION** The Disaster Recovery Option lets you perform fast, simple, and reliable bare metal recovery of failed servers. This capability lets you get your applications up and running quickly. The option ensures rapid, bare metal recovery of the failed server, and you will not need to reinstall the operating system or CA ARCserve Backup. The option lets you perform restore operations from data that is stored on a SAN and over the network. You can create boot diskettes, CD recovery images, and OBDR (one-button disaster recovery) tape drives, to further simplify the recovery process. In CA ARCserve Backup r12.5, Disaster Recovery Option adds a new and redesigned user interface, as well as support for recovering 64-bit hardware servers.

**CA ARCSERVE® BACKUP TAPE LIBRARY OPTION** The Tape Library Option delivers flexible, automatic tape library configuration and operations, supports and provides advanced device and media management for multiple drive libraries. This option lets CA ARCserve Backup send simultaneous streams of data to each drive to optimize throughput on any multiple-drive tape library. Scheduling features include extended virtual library support.

**CA ARCSERVE® BACKUP STORAGE AREA NETWORK OPTION** The Storage Area Network Option lets you fully exploit Fibre Channel Technology to offload backup and restore operations from corporate LANs. This capability provides you with unlimited scalability of the storage network and eliminates additional storage data traffic on your LAN. In addition, the option lets you share storage devices between multiple CA ARCserve Backup servers, and provides advanced device and media management tools.

**CA ARCSERVE® BACKUP ENTERPRISE MODULE OPTION** *Updated!* When you install the Enterprise Module with the CA ARCserve Backup base product, you can leverage enterprise-level capabilities with CA ARCserve Backup. Enterprise-level capabilities include tasks such as Vaulting, Media Management, Multiplexing (up to 32 streams), block-level image backup, D2D2T backup and more. In this release, the module adds the capability to support encryption-enabled, LTO 4 tape drives, and secure disk to disk to tape migration. Providing even more value, the Enterprise Module now includes the Disk to Disk to Tape Option and VSS Hardware Snapshot for free.

**CA ARCSERVE® BACKUP NDMP NAS OPTION** The NDMP NAS option lets you back up and restore data on Network Attached Storage (NAS) devices using Network Data Management Protocol (NDMP). To restore data to your NDMP NAS servers, just configure and submit a restore job using the CA ARCserve® Backup Restore Manager, choosing the NAS device as your source.

The Device Manager gives you information about storage devices that are connected to your network, the media in these devices, and the status of these devices. The Device Manager has additional functionality with the NAS Option installed. It is used to manage the tape drives and media attached to NAS servers.

**CA ARCserve® BACKUP ENTERPRISE OPTION FOR AS400** The Enterprise Option for AS400 allows you to backup/restore/protect AS400 systems remotely from backup server running on open systems. It can reduce your operating cost by using the same infrastructure for open and mainframe systems. As well as, it is very simple to manage. You can even still use the same application console for all your data protection needs.

**CA ARCserve® BACKUP ENTERPRISE OPTION FOR SAP R/3 FOR ORACLE** The Enterprise Option for SAP R/3 helps you ensure complete data and transactional integrity of the R/3 database. The option provides "SAP Certified" protection of the SAP R/3 database.

## Buying the Right Agents and Options

With so many agents and options to choose from, it can be difficult and expensive to choose, purchase, and license the most effective combination of technologies to address your backup and recovery management needs. CA offers a simpler choice.

CA ARCserve Backup	A La Carte Pricing	Simplified Pricing	Managed Capacity Pricing
Data Deduplication	✓ (base and clients)	File Server Suite	✓
Dashboard with Storage Resource Management (SRM) Reporting	✓ (base and clients)	File Server Suite	✓
Access Control and Auditing	Not offered	File Server Suite	✓
Encryption Key Management	Not offered	File Server Suite	✓
Media Assure	✓ (base)	File Server Suite	✓
Flexible Backup Device	✓ (base)	File Server Suite	✓
Central Management Option	Not offered	File Server Suite	✓
Enterprise Module	Not offered	File Server Suite	✓
NDMP NAS Option	Not offered	File Server Suite	✓
Storage Area Network Option	Not offered	File Server Suite	✓
Enterprise Option for SAP R/3 for Oracle	Not offered	Application Server Suite	✓
Agent for Oracle	Not offered	Database Server Suite	✓
Agent for Sybase	Not offered	Database Server Suite	✓
Agent for IBM Informix	Not offered	Database Server Suite	✓
Agent for Virtual Machine	✓	File Server Suite	✓
Base Product	✓	File Server Suite	✓
Disaster Recovery Option	✓	File Server Suite	✓
Tape Library Option	✓	File Server Suite	✓
Agent for Open Files for Windows	✓	File Server Suite	✓
Client Agent	✓	File Server Suite	✓
Agent for Microsoft SharePoint	✓	Application Server Suite	✓
Agent for Microsoft SQL Server	✓	Database Server Suite	✓
Agent for Microsoft Exchange	✓	Email Server Suite	✓
Agent for Lotus Domino	✓	Email Server Suite	✓

CA's Simplified Pricing Model for CA ARCserve Backup removes the complexity of procuring, installing, managing and tracking software, which saves you time and money. With four complete product suites, a la carte selection and managed capacity pricing plans, you get a complete data protection solution that combines the technologies you need, with fewer licenses to manage. Each suite delivers greater technology value by combining all the necessary components to protect each server environment:

- CA ARCserve® Backup File Server Suite
- CA ARCserve® Backup Email Suite
- CA ARCserve® Backup Database Suite
- CA ARCserve® Backup Application Suite

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## CA ARCserve Backup Supports Your Environment

CA ARCserve Backup delivers comprehensive, consolidated, flexible and powerful backup and recovery capabilities that help you better secure your business critical data. With CA ARCserve Backup, you choose the appropriate agents or options to help you build the perfect solution for your unique environment. For more information about how CA ARCserve Backup can improve your organization's specific data protection processes, visit [arcserve.com](http://arcserve.com) or [ca.com/contact/rmdm](http://ca.com/contact/rmdm).

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To learn more and see how CA ARCserve Backup enables other organizations to unify and simplify IT management for better business results, visit [ca.com/backup](http://ca.com/backup).