

CA ARCserve® Backup for Windows

Release Summary

r12



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CA Product References

This documentation set references the following CA products:

- Advantage™ Ingres®
- BrightStor® ARCserve® Backup for Laptops and Desktops
- BrightStor® CA-1® Tape Management
- BrightStor® CA-Dynam®/B Backup for VM
- BrightStor® CA-Dynam®/TLMS Tape Management
- BrightStor® CA-Vtape™ Virtual Tape System
- BrightStor® Enterprise Backup
- BrightStor® High Availability
- BrightStor® Storage Resource Manager
- BrightStor® VM:Tape®
- CA ARCserve® Backup Agent for Novell Open Enterprise Server for Linux
- CA ARCserve® Backup Agent for Open Files on NetWare
- CA ARCserve® Backup Agent for Open Files on Windows
- CA ARCserve® Backup Client Agent for FreeBSD
- CA ARCserve® Backup Client Agent for Linux
- CA ARCserve® Backup Client Agent for Mainframe Linux
- CA ARCserve® Backup Client Agent for NetWare
- CA ARCserve® Backup Client Agent for UNIX
- CA ARCserve® Backup Client Agent for Windows
- CA ARCserve® Backup Enterprise Option for AS/400
- CA ARCserve® Backup Enterprise Option for Open VMS
- CA ARCserve® Backup for Windows
- CA ARCserve® Backup for Windows Agent for IBM Informix
- CA ARCserve® Backup for Windows Agent for Lotus Domino
- CA ARCserve® Backup for Windows Agent for Microsoft Data Protection Manager
- CA ARCserve® Backup for Windows Agent for Microsoft Exchange
- CA ARCserve® Backup for Windows Agent for Microsoft SharePoint

- CA ARCserve® Backup for Windows Agent for Microsoft SQL Server
- CA ARCserve® Backup for Windows Agent for Oracle
- CA ARCserve® Backup for Windows Agent for Sybase
- CA ARCserve® Backup for Windows Agent for VMware
- CA ARCserve® Backup for Windows Disaster Recovery Option
- CA ARCserve® Backup for Windows Disk to Disk to Tape Option
- CA ARCserve® Backup for Windows Enterprise Module
- CA ARCserve® Backup for Windows Enterprise Option for IBM 3494
- CA ARCserve® Backup for Windows Enterprise Option for SAP R/3 for Oracle
- CA ARCserve® Backup for Windows Enterprise Option for StorageTek ACSLS
- CA ARCserve® Backup for Windows Image Option
- CA ARCserve® Backup for Windows Microsoft Volume Shadow Copy Service
- CA ARCserve® Backup for Windows NDMP NAS Option
- CA ARCserve® Backup for Windows Serverless Backup Option
- CA ARCserve® Backup for Windows Storage Area Network (SAN) Option
- CA ARCserve® Backup for Windows Tape Library Option
- CA XOsoft™ Assured Recovery™
- CA XOsoft™
- Common Services™
- eTrust® Antivirus
- eTrust® Firewall
- Unicenter® Network and Systems Management
- Unicenter® Software Delivery
- Unicenter® VM: Operator®

Contact Technical Support

For online technical assistance and a complete list of locations, primary service hours, and telephone numbers, contact Technical Support at <http://ca.com/support>.

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Chapter 1: New Features

The Release Summary for CA ARCserve Backup documents new features and changes to existing features for r12. This chapter describes new features added to the product. The chapter "Changes to Existing Features" describes changes made to existing features and includes a list of features removed from the product.

This section contains the following topics:

- [Central Management Option](#) (see page 7)
- [Disk to Disk to Tape Option Enhancements](#) (see page 10)
- [Oracle RMAN](#) (see page 12)
- [Agent for VMware](#) (see page 12)
- [SharePoint Server 2007](#) (see page 12)
- [Windows Server 2008](#) (see page 13)
- [SQL Server 2008](#) (see page 13)
- [Oracle Database 11g](#) (see page 13)
- [CA XOsoft](#) (see page 13)
- [System State Backup Using Volume Shadowcopy Service \(VSS\)](#) (see page 14)
- [IBM Informix Dynamic Server Database 11.1](#) (see page 14)

Central Management Option

The Central Management Option allows you to manage one or more ARCserve servers through a single central system. Within an ARCserve domain, this central system is called the primary server and the other (subordinate) servers are called member servers.

This provides you with increased manageability with respect to organizing, monitoring, and configuring backup environments through a single interface. The following features are part of the Central Management Option:

File System Device (FSD) Dynamic Configuration

FSD configuration can now be done dynamically and does not require the media service (Tape Engine) to be stopped to create or modify the FSD. Since you do not have to stop or start services, it is easier for you to manage FSDs. Also, you can now create FSDs for any of the ARCserve servers (primary or member) in the domain.

Storage Area Network (SAN) Configuration Enhancement

The following enhancements have been made to Storage Area Network (SAN) Configuration Enhancement:

- Member Configuration—You can now specify the member role.
- Shared Device Detection—You can now identify all shared devices that can be accessed across multiple members.
- Shared Group Management—This enhancement provides a consistent and unified group view.

Tape Library Option Enhancements

The following Tape Library Option (TLO) enhancements are available in CA ARCserve Backup:

- Multiple Cleaning Slots—This option lets you specify one or more cleaning slots and the slots do not need to be in a successive order. The advantages include the ability to support more than one cleaning slot at the same time and an increase in the time between individual tape changes.
- Library Property Window—This Library Property Window provides a central location for you to access and manage the following TLO options:
 - Assign or remove automatic tape cleaning times
 - Assign or remove cleaning tapes based on bar codes
 - Assign or remove cleaning slots
 - Enable or disable eject after backup
 - Assign or remove the bar code reader installed from the library
 - Enable or disable the Virtual Tape Library (VTL) option. This identifies a particular library as a VTL in the CA ARCserve Backup environment.

Utilizing these options will enhance tape library performance.

Microsoft SQL Server 2005 Express Edition

CA ARCserve Backup is replacing the Raima VLDB database with Microsoft SQL Server 2005 Express Edition. Integrated support for protection of the CA ARCserve Backup database is extended to support both SQL and SQL express installations. Microsoft SQL Server 2005 Express Edition provides you with advanced management tools, stability, reliability, and performance.

Centralized Catalog Database and Catalog Browsing

CA ARCserve Backup r12 extends the implementation of Centralized Catalog Database by allowing information pertaining to backed up sessions to be browsed directly from the catalog, without having to merge them into the CA ARCserve Backup database. The Centralized Catalog Database is implemented on the primary ARCserve server and includes catalogs that are generated on all the member servers in the domain. This feature is enabled by default.

Central Licensing

Licensing is now managed from the Central Management interface for your entire CA ARCserve Backup environment. Most of the CA ARCserve Backup component licenses needed are applied from the primary server in the domain. You will also be able to view and change the distribution of the licenses across the installed components of your environment.

Central Job History

Central job history allows you to view the history of the backup jobs on all CA ARCserve Backup servers within a domain of the primary server. You can view the history based upon either the host name or the job itself.

Through central job history, you can locate and review the status of the servers that were backed up, the instances (or jobs) for each server, and the volumes (or sessions) for each instance.

Central Reporting

The number of pre-defined reports for CA ARCserve Backup r12 have been expanded. These new reports reduce the time you need to create and generate reports. The reports provide immediate usable information that you can use to access your environment. The following reports will help to identify areas of concern:

- Backup Attempt Success Rate : Summary
- Backup Attempt Success Rate : Individual Client
- Restore Attempt Success Rate
- Drive Throughput
- Backup Error
- Clients With Most Failed Backup Attempt

- Most Consecutive Backup Failures
- Clients With Most Partial Backups
- Full Backup Duration
- Last Backup Status
- Vaulting

Server Configuration Wizard

The Server Configuration Wizard lets you manage how CA ARCserve Backup servers function. Using the Server Configuration Wizard, you can perform the following tasks:

- Manage the roles of the servers in your CA ARCserve Backup domain.
- Select the application that you want to use to manage the CA ARCserve Backup database.
- Move the CA ARCserve Backup database to other systems or use a different SQL Server database instance in your environment.
- Repair the ARCserve database connection to a primary server and member servers.
- Register a member server with a CA ARCserve Backup domain primary server.
- Specify the CA ARCserve Backup Domain Administrator (caroot) password on a primary server.
- Correct installation failures.

Disk to Disk to Tape Option Enhancements

The Disk Staging Option has been renamed to Disk to Disk to Tape Option. You need to install the option only on the primary server and license it appropriately. The following enhancements are available for the Disk to Disk to Tape Option and the Disk to Tape to Tape Option:

Session Consolidation During Migration

In this release of CA ARCserve Backup, you now have the option to consolidate backup data from different disk staging and tape staging backup jobs during the migration phase to the same media. From the Miscellaneous tab, you have the option to set consolidation for both full and differential\incremental backups.

Consolidation during migration lets you optimize tape usage in staging jobs and can be used in a custom job, rotation job, or GFS rotation job.

Virtual Tape Library Staging

CA ARCserve Backup functionality allows you to add file system devices as part of a disk staging group. The Virtual Tape Library (VTL) Staging enhancement extends this capability to any tape devices. CA ARCserve Backup will now allow you to define an automated migration policy at the end of the backups. The VTL staging is enabled with the Disk to Disk to Tape option.

Secure Migration

Secure migration lets you can define encryption parameters that are applied by CA ARCserve Backup during a scheduled migration of the backed up data from disk to tape or from a VTL to tape.

If CA ARCserve Backup detects hardware encryption capabilities on the backup device, it will automatically be enabled. Using hardware encryption lets you reduce the encryption load on the backup server. If the hardware does not support encryption, the data is encrypted by the software prior to migrating to the backup media.

When used with a tape to tape operation and the source is encrypted, CA ARCserve Backup preserves the same encryption parameters that were used for the initial backup for the migration. Encryption will occur at the Backup Server during migration.

ca_dbmgr to Show Migration Status

The ca_dbmgr command supports the ability to script out periodic checks to see if all of the migrations pertaining to a back up job have been completed.

Oracle RMAN

CA ARCserve Backup has made the following Oracle RMAN support enhancements:

- The agent lets you perform a staging backup job of multiple Oracle RMAN database instances in a single job.
Note: This enhancement was made for the Agent for Oracle in BrightStor ARCserve Backup for UNIX and Linux r11.5 SP3.
- The agent uses media maximization to help optimize tape usage in GFS Rotation jobs and ensure that any wasted space on these tapes will be minimized.
- The Device availability waiting time option allows you to specify how long you want a backup job to wait if it is unable to access the number of devices it requires.
- The Continue backup option allows the job continue to run as long as the job has at least one device assigned.
- The Fail the job option allows the backup job to fail when the number of copies is more than one and the job cannot gain access to enough devices to support them.

Agent for VMware

CA ARCserve Backup now offers the CA ARCserve Backup Agent for VMware. VMware includes an integrated mechanism with VMware ESX Server and VirtualCenter Server called VMware Consolidated Backup (VCB). With VCB, you can protect Virtual Machine (VM) files and data. In addition, you can offload the VM back up activity to a dedicated proxy system, and then use the back up and restore functionalities that CA ARCserve Backup provides to protect virtual machines.

SharePoint Server 2007

CA ARCserve Backup Agent for Microsoft SharePoint is extending its support to provide the ability to back up and restore Microsoft Office SharePoint Server (MOSS) 2007 and Microsoft Windows SharePoint Services (WSS) data. SharePoint content consists of distributed SharePoint databases, Shared Service Provider, Single Sign-On (SSO), and search indexes. The agent lets you use the features of CA ARCserve Backup to manage the back up and restore of all SharePoint data on your network.

Windows Server 2008

CA ARCserve Backup r12 supports Microsoft Windows Server 2008. All the Microsoft Windows Server 2008 server backups are executed through the Windows Client Agent.

SQL Server 2008

CA ARCserve Backup Windows Agent for Microsoft SQL Server server has been enhanced to support Microsoft SQL Server 2008. You will have the ability to configure Microsoft SQL server 2008 as the ARCserve database. Microsoft SQL Server 2008 provides a policy-based system for managing one or more instances of an SQL Server.

Oracle Database 11g

CA ARCserve Backup provides support for Oracle Database 11g. The Oracle VSS Writer integrates with Volume Shadow Copy Service (VSS) to enable back up and recovery of Oracle database files. CA ARCserve Backup supports the full backup of data selected by the Oracle VSS Writer. However, the Archive Log Dest_1 and Flash Recovery Area objects will not be backed up even if you have previously selected them for a full backup.

CA XOsoft

CA ARCserve Backup provides you with high-performance disk-to-disk (D2D), disk-to-tape (D2T), disk-to-disk-to-tape (D2D2T), backup encryption and integrated antivirus protection, multiplexing, and snapshot backup and recovery capabilities. The addition of CA XOsoft complements these capabilities by adding continuous data protection, replication, and automated application failover. Together they provide a complete, 24-hour a day, 7-day a week integrated solution for recovery management, enabling you to better meet evolving compliance, business continuity, and disaster recovery objectives while saving time and resources.

System State Backup Using Volume Shadowcopy Service (VSS)

CA ARCserve Backup now supports using Volume Shadowcopy Service (VSS) to back up the system state on the following operating systems:

- Windows 2003
- Windows Vista
- Windows Server 2008
- Windows XP (x64 only)

IBM Informix Dynamic Server Database 11.1

CA ARCserve Backup now supports backup and recovery of IBM Informix Dynamic Server database 11.1.

Chapter 2: Changes to Existing Features

This chapter includes changes made to existing features and includes a list of features removed from the product for CA ARCserve Backup r12.

This section contains the following topics:

- [Security Related Enhancements](#) (see page 15)
- [Disaster Recovery Enhancements](#) (see page 16)
- [Miscellaneous Enhancements](#) (see page 17)
- [Merged Agents and Options](#) (see page 18)
- [Documentation Changes in this Release](#) (see page 19)
- [Features Not Supported](#) (see page 21)

Security Related Enhancements

The following security related enhancements are included in CA ARCserve Backup r12:

Federal Information Processing Standards (FIPS)

CA ARCserve Backup r12 is upgrading the encryption support to use the industry standard AES 256-bit encryption algorithm. The AES-256-bit encryption algorithm provides increased encryption and faster performance. Backups executed using AES-256-bit encryption algorithm are faster and more secure.

Server-based Encryption

CA ARCserve Backup enhances the current data encryption implementation (included with CA ARCserve Backup Agents) with the capability to optionally encrypt them as they are received on the CA ARCserve Backup server.

If CA ARCserve Backup detects hardware encryption capabilities on the backup device, it will automatically be enabled. Using hardware encryption lets you reduce the encryption load on the backup server. If the hardware does not support encryption, the data is encrypted by the software prior to being transferred to the backup media.

Note: To access the most up-to-date list of certified devices, click the Technical Support link on the CA ARCserve Backup Home Page.

Disaster Recovery Enhancements

The following disaster recovery enhancements are available:

64-bit Operating System Disaster Recovery

CA ARCserve Backup supports Disaster Recovery on 64-bit Windows machines running XP (x64) or Windows 2003 (x64/IA64).

Note: 64-bit One button disaster recovery is not supported.

Device Drivers Integration for Windows 2003/XP

CA ARCserve Backup allows the Client Agents to collect and include network drivers that were not on the Windows 2003/XP CD and save them on the backup server for Disaster Recovery purposes. This is accomplished by integrating the critical device drivers into a Disaster Recovery Boot Kit.

Activity Log Messages

After a backup job finishes a log message is generated and added to the Activity Log. The message indicates that Disaster Recovery information has been successfully generated.

Boot Kit Wizard Enhancements

The Boot Kit Wizard has been enhanced to allow you to create a bootable CD that integrates the operating system, CA ARCserve Backup, machine specific data (MSD), and drivers. It can also create a CD that integrates the latest CA ARCserve database patches. The Boot Kit Wizard also lists the media and session information of the sessions that are used for Disaster Recovery by the MSD.

Restore of Incremental/Differential Sessions

During a backup job, CA ARCserve Backup records incremental and differential session information. During disaster recovery restore, you can now select all or some of these sessions to restore.

Local Disaster Recovery Restore Using Remote File System Device

While performing disaster recovery of an CA ARCserve Backup server that had a file system device configured on a remote machine, disaster recovery will now automatically map the network drive on which the file system device was configured so that the recovery process can access the file system device for data restore.

Miscellaneous Enhancements

The following miscellaneous enhancements have been made to existing features:

Device Reconfiguration

CA ARCserve Backup supports the seamless replacement of faulty devices by allowing the replacement device to be assigned to the group that the old device was a part of. This functionality is supported only if your replacement device is supplied by the same vendor as the old device.

Device Cleaning

At the end of each backup job, CA ARCserve Backup queries each drive to check if it needs cleaning. Cleaning results are logged in the Activity log only if the drive needed cleaning. If the drive did not require cleaning, the Activity log will not be updated. This implementation will work even if the tape alert is disabled.

Media Logging

CA ARCserve Backup will warn you when the media you are using is nearing its expiration date. This feature gives you the benefit of scheduling the number of days before expiration of the media that CA ARCserve Backup will generate a warning message in the activity log. This lets you plan for the media replacement.

Makeup Job

In the previous releases, you could create makeup jobs at a scheduled time or on HOLD. CA ARCserve Backup r12 enhances this feature to include the following:

- Makeup jobs that can be executed at a specific time after a backup job has failed.
- Makeup jobs that can be created after a specific number of minutes after a backup job has failed.

Tape Copy

Tape copy includes the -qJobNo switch. This switch queries the CA ARCserve Backup database to include all sessions that are subordinate to the specified job number. Tape copy also includes the -qtype switch. This switch queries the CA ARCserve Backup database to include only selected types of sessions to be copied.

Online and Offline File System Devices from Command Line

CA ARCserve Backup extends the ability to offline and online File System Devices using the ca_devmgr command line utility. This enhancement allows scenarios that would enable backups and migrations to be handled by separate CA ARCserve Backup servers, each configured to use the same folder as a File System Device.

Tape Sequence Number

The maximum tape sequence number has been increased from 25 to 100. Increasing the session number provides extend space on the tape allowing you to back up a larger number of sessions.

Merged Agents and Options

The following agents and options were merged to simplify licensing and packaging.

Tape Library Option

The CA ARCserve Backup Tape RAID Option and the CA ARCserve Backup Optical Library Option have been merged with the CA ARCserve Backup Tape Library Option.

Enterprise Option

The CA ARCserve Backup Enterprise Option for StorageTek ACSLS, the CA ARCserve Backup Serverless Backup Option, the CA ARCserve Backup Image Option, and the CA ARCserve Backup Enterprise Option for IBM 3494 have been merged with the Enterprise Option.

Microsoft Exchange Agent

The CA ARCserve Backup Agent for Microsoft Exchange includes both the premium add-on (document level) and agent modules. The premium add-on is no longer separately purchased module. Existing agents can be upgraded to CA ARCserve Backup r12 and all previous backups can be restored through the new agent.

Agent for Open Files

The CA ARCserve Backup Client for VSS Software Snap-Shot has been merged with the CA ARCserve Backup Agent for Open Files. You do not need to install and license the CA ARCserve Backup Client for VSS Software Snap-Shot, VSS related functionality becomes enabled when a valid license for CA ARCserve Backup Agent for Open Files is installed.

Documentation Changes in this Release

The documentation set for CA ARCserve Backup r12 has changed as follows:

New Guides

Implementation Guide

The Implementation Guide replaces the Getting Started Guide. This guide describes how to plan your installation, install and upgrade CA ARCserve Backup, best practices for installing and upgrading, basic configurations, and how to use some of the common managers.

Command Line Reference Guide

The Command Line Reference Guide was extracted from the Administration Guide. It includes more detailed information about using the command line to protect your environment, including examples for each command.

Agent for VMware Guide

The Agent for VMware Guide describes how to configure and use this new agent.

Administration Guide

The Administration Guide replaces the Administrator Guide.

Merged Guides

Tape Raid Guide with the Tape Library Option Guide

The Tape Library Option Guide includes support for Tape RAID backups.

SAN Option Guide with the Administration Guide

The CA ARCserve Backup base product includes support for SAN backups. You can license the SAN Option only when ARCserve servers are connected to shared libraries.

Dropped Guides

Tape RAID Guide

The Tape RAID Guide information is included in the Tape Library Option Guide.

SAN Option Guide

The SAN Option Guide information is included in the Administration Guide.

Enterprise Option for Advantage Ingres Guide

The Enterprise Option for Advantage Ingres Guide was dropped because this option is no longer supported in CA ARCserve Backup r12.

Enterprise Option for Microsoft SQL Using HDS Snap-Shot Guide

The Enterprise Option for Microsoft SQL Using HDS Snap-Shot Guide was dropped because this option is no longer supported in CA ARCserve Backup r12.

Enterprise Option for Microsoft SQL Using HP-XP Snap-Shot Guide

The Enterprise Option for Microsoft SQL Using HP-XP Snap-Shot Guide was dropped because this option is no longer supported in CA ARCserve Backup r12.

Features Not Supported

The following features are no longer supported in CA ARCserve Backup r12:

- Enterprise Option for Microsoft SQL using HDS Snap-shot--We encourage you to upgrade to CA ARCserve Backup Enterprise Option for VSS Hardware Snapshot.
- Enterprise Option for Microsoft SQL using HP-XP Snap-shot--We encourage you to upgrade to CA ARCserve Backup Enterprise Option for VSS Hardware Snapshot.
- BrightStor ARCserve Backup 9.01 and 10.5--The ability to upgrade from 9.01 and 10.5 environments is maintained. However, a full product license is required.
- VI support for NT Agent
- Agent for Ingres--The Agent for Ingres is not included with CA ARCserve Backup r12. However, CA ARCserve Backup r12 is compatible with the CA ARCserve Backup r11.5 Agent for Ingres.
- Cross Platform Manager (CPM)--CA ARCserve Backup r12 will no longer be able to manage UNIX, Linux or Netware CA ARCserve Backup servers. However, when you upgrade, you have the option to leave the previous version of the manager installed.
- CA ARCserve Backup will not support creating new Brick Level backup jobs using the r12 Agent for Microsoft Exchange. You will continue to have the ability to modify and run Brick Level jobs using the r11.5 Agent for Microsoft Exchange.
- Raima VLDB--If you are currently using RAIMA VLDB to host the ARCserve database, you must upgrade to either Microsoft SQL Server 2005 Express Edition or Microsoft SQL Server. The recommended database application is Microsoft SQL Server 2005 Express Edition.
- Microsoft SQL 7.0----CA ARCserve Backup r12 will not support Microsoft SQL 7.0 as an ARCserve database. However, the Agent for Microsoft SQL Server will continue to support Microsoft SQL 7.0.
- Central Database configuration
- Cross Platform SAN--The CA ARCserve Backup r12 server can not be installed on the same SAN as the server for CA ARCserve Backup UNIX or CA ARCserve Backup Netware.
- Internetwork Packet Exchange (IPX)
- High Availability integration
- SQL Multi-stripe backup

- Platform and Application versions
 - AIX 4.3.3, 5, 5.1
 - Solaris 6
 - NetWare Agent v9
 - HP 11.00
 - Tru 64 4.0E and earlier versions
 - Oracle 7, 8i
 - Sybase 11.9.2
 - Informix 7.3X, 9.3.x, 9.2.x
 - Lotus Domino 5.x, 6.x
 - Exchange 5.5
 - SAP 4.6