

CA ARCserve® Backup for Windows

Release Summary

r12.5



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CA Product References

This document references the following CA products:

- BrightStor® ARCserve® Backup for Laptops and Desktops
- BrightStor® CA-Dynam®/TLMS Tape Management
- BrightStor® CA-Vtape™ Virtual Tape System
- BrightStor® Enterprise Backup
- BrightStor® High Availability
- BrightStor® Storage Resource Manager
- CA Antivirus
- CA ARCserve® Backup Agent for Advantage™ Ingres®
- 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 Microsoft Windows Essential Business Server
- 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 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 Virtual Machines

- 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 Dynam®/B Backup for z/VM
- CA VM: Tape for z/VM
- CA XOssoft™ Assured Recovery™
- CA XOssoft™
- CA 1® Tape Management
- Common Services™
- eTrust® Firewall
- Unicenter® Network and Systems Management
- Unicenter® Software Delivery
- Unicenter® VM: Operator®

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Contact Technical Support

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- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
- Other helpful resources appropriate for your product

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Chapter 1: New Features and Functional Enhancements

This Release Summary describes new features, functional enhancements, and usability enhancements included with CA ARCserve Backup for Windows r12.5. For similar information about CA ARCserve Backup for Windows r12 and CA ARCserve Backup for Windows r12 SP1, see the corresponding Release Summaries located in the following directory:

Default installation path

C:\Program Files\CA\ARCserve Backup\Doc

File names

AB_REL_SUM_R12SP1_W_ENU.PDF

AB_REL_SUM_R12_W_ENU.PDF

Note: The Release Summaries can also be accessed from the \Doc directory on the CA ARCserve Backup installation media.

This section contains the following topics:

[Enhanced Virtual Machine Protection on VMware and Hyper-V Systems](#) (see page 10)

[CA ARCserve Backup Dashboard](#) (see page 10)

[Data Deduplication](#) (see page 11)

[Password Management](#) (see page 11)

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[TapeAlert 3.0 Support](#) (see page 13)

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[Oracle RMAN and 64-bit Platform Support](#) (see page 14)

[Support for Member Server Installations on Windows Server 2008 Server Core](#) (see page 14)

Enhanced Virtual Machine Protection on VMware and Hyper-V Systems

The CA ARCserve Backup Agent for Virtual Machines lets you protect virtual machines (VMs) running the following systems:

- VMware ESX Server
- Microsoft Windows Server 2008 Hyper-V

This release of the CA ARCserve Backup Agent for Virtual Machines supports the capability to perform mixed mode backups. With a mixed mode backup, you can perform GFS and rotation backup jobs that consist of weekly full backups in full VM (raw) mode and daily incremental and differential backups in file mode in a single backup job.

In addition, mixed mode backups let you back up data with raw (full) VM efficiency, and restore data with file-level granularity.

For more information, see the *Agent for Virtual Machines Guide*.

CA ARCserve Backup Dashboard

The CA ARCserve Backup Dashboard is an interface that provides you with a snapshot of the activity in your backup infrastructure. The CA ARCserve Backup dashboard allows you to find the backup job status of historical and recent jobs, find the nodes that are failing the most, 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, and many other information.

CA ARCserve Backup Dashboard also allows you to schedule reports to be sent by email.

For CA ARCserve Backup Dashboard to show information, the CA ARCserve Backup agents must be upgraded to this release.

For more information on using the CA ARCserve Backup Dashboard, see the *CA ARCserve Backup Dashboard for Windows User Guide*.

Data Deduplication

Data deduplication is technology that examines data for redundancy, storing only unique data "chunks" to disk. CA ARCserve Backup allows you to back up data to disk using deduplication technology. Using optimized deduplication technology, CA ARCserve Backup can reduce the backup window as well as reduce the disk space required to store backups. Depending upon the content of your data, CA ARCserve Backup deduplication technology can reduce the disk size requirements anywhere from 10 to 50 times. The deduplication technology will enable you to retain backup images on disk for a longer periods of time.

Many reports in CA ARCserve Backup dashboard show you the amount of deduplication achieved over a period of time.

For more information on using Data Deduplication, see the *Administration Guide*.

Password Management

If you are using hardware or software encryption, you have to specify passwords. In previous releases of CA ARCserve Backup it was your responsibility to remember these passwords, because they are required to submit a restore job.

In this release, CA ARCserve Backup (by default) will remember passwords for you. So that during a restore job you do not have to specify passwords. All the passwords you supply are encrypted (FIPS compliant). You can also, export and import the encryption keys with FIPS compliant security and store or use the passwords at a remote disaster recovery site.

Also, if you are required to change your passwords regularly, CA ARCserve Backup can be configured to remind you to change your password.

For more information on using Password Management, see the *Administration Guide*.

User Profile

User Profile Management allows you to have different users access CA ARCserve Backup with different privileges. Using the User Profile Manager, you can assign individual users different roles with specific permissions. For example, you can have three users: one having an administrator role, one having a backup operator role, and one having a restore operator role. The ability to assign permissions based on role decreases the chances of an unauthorized user accessing the CA ARCserve Backup domain.

In this release, you can now access CA ARCserve Backup using your Windows domain account thereby reducing the need to create, manage, and remember user passwords.

For more information on using User Profile Management, see the *Administration Guide*.

CA ARCserve Backup Agent Deployment Packages

This release of CA ARCserve Backup includes CA ARCserve Backup Agent Deployment. CA ARCserve Backup Agent Deployment is a wizard-like application that lets you install and upgrade a collection of CA ARCserve Backup agents on multiple remote hosts simultaneously. Agent Deployment was designed to help you ensure that you are running the most current version of a select group of CA ARCserve Backup agents in your backup environment.

Agent Deployment requires installation files called Agent Deployment Packages that you can install on the CA ARCserve Backup server. To install Agent Deployment Packages, you must explicitly select Agent Deployment Packages when you install CA ARCserve Backup. This eliminates the need for you to provide the CA ARCserve Backup installation media when you run Agent Deployment, after you install CA ARCserve Backup.

For more information about using Agent Deployment, see the *Implementation Guide* or the *Administration Guide*.

TapeAlert 3.0 Support

Tape Alert 3.0 support enables CA ARCserve Backup to detect and report the new flags defined in TapeAlert 3.0 asserted by your tape drives and libraries. You can monitor CA ARCserve Backup tape drives and libraries using the SNMP protocol.

TapeAlert polling is disabled by default. If you want to receive TapeAlert-related messages, you can enable the option through the CA ARCserve Backup Server Admin.

Migration Job Status

The Job Status Manager has been updated to show scheduled and pending migration jobs. The session record, available on the Migration Jobs Status window, includes information on a session that was backed up and is scheduled to be migrated. Copy time, purge time, and target group name can be modified for each pending or scheduled data migration job.

Media Assure

Media Assure lets you ensure that the sessions on the media are restorable. You can access Media Assure through the Scan Manager. A Media Assure job scans sessions randomly based on specified criteria.

You can set the following criteria for a Media Assure job:

- Number of days since last session back up.
- Number of sessions to scan.
- Nodes to scan.

Oracle RMAN and 64-bit Platform Support

The Agent for Oracle handles all communications between the CA ARCserve Backup and the Oracle database during backup and restore jobs, including preparing, retrieving, and processing the data that is sent back and forth between the Oracle database and CA ARCserve Backup.

The following features are included with this release:

- The agent provides two modes of backup:
 - File-based mode
 - RMAN-based mode
- The agent supports x86, x64, and IA64 platforms.

Note: The Agent for Oracle does not support Oracle 11g on Windows Server 2008 (x86 and x64) systems.
- The agent supports JIS 2004 characters.
- The agent enables SAP agents to do Oracle backups.

For more information on using the agent, see the *Agent for Oracle Guide*.

Support for Member Server Installations on Windows Server 2008 Server Core

In this release, you can now install CA ARCserve Backup Member Server components on Windows Server 2008 Server Core. Windows Server 2008 Server Core is a minimal server installation option for the Windows Server 2008 operating system.

This capability lets you protect data using Windows Server 2008 Server Core functionality and Hyper-V technology, including recovering a Windows Server 2008 system from a disaster.

To protect backup data you can use the CA ARCserve Backup components that follow:

- CA ARCserve Backup Member server and supported options
- CA ARCserve Backup Client Agent for Windows
- CA ARCserve Backup Agent for Open Files
- CA ARCserve Backup for Windows Disaster Recovery Option

Chapter 2: Usability Enhancements

This chapter includes changes made to existing features and includes a list of features removed from the product.

This section contains the following topics:

[Setup Enhancements](#) (see page 15)

[Reporting Improvements](#) (see page 16)

[Media Maximization](#) (see page 16)

[Waiting for Target Status Type](#) (see page 16)

[Enhanced License Management](#) (see page 16)

[Increased Session Number](#) (see page 17)

[Tapecopy Support for NAS Sessions](#) (see page 17)

[NDMP NAS Option Support for x64 System](#) (see page 17)

[SAP Agent Support for Windows-on-Windows](#) (see page 17)

[Features Not Supported](#) (see page 18)

Setup Enhancements

This release of CA ARCserve Backup includes an enhanced Installation Wizard. The installation dialogs are larger in their overall size and provide you with more descriptive information for each step of the process. Also, several installation tasks have been consolidated into single dialogs and each dialog contains a status bar that identifies your overall installation progress.

In addition, the Installation Wizard contains the following changes:

- You must now grant permission to install third-party, prerequisite components.
- You can now specify an Express installation, which installs the most commonly installed CA ARCserve Backup components.
- You can now specify SQL Server collation to protect data that contains Unicode, double-byte characters.

Reporting Improvements

The Report Manager now lets you run the following enhanced and new reports:

Audit Log Reports

This new report category is designed to generate reports based on Audit Log information such as service starts and stops, or password changes. You can now identify who executed an action, from what machine, and using what application.

Media Reports

This report category has been updated. The Session Detail and Session Reports now contain a field called Compression Ratio for Deduplication. This ratio shows the amount of data actually written to disk after deduplication. The field is available only for sessions backed up to deduplication device groups.

Dashboard Reports

Many reports are generated through the CA ARCserve Backup dashboard. The reports can be printed or emailed from the CA ARCserve Backup dashboard or scheduled to be emailed at a specific time.

Media Maximization

Media maximization is a process that helps optimize disk and tape usage in GFS and rotation jobs. Media maximization has been enhanced to extend support to disk staging rotation jobs and custom disk staging jobs using media pools to append backup data.

Waiting for Target Status Type

The Waiting for Target status indicates a job is ready to execute and is waiting for the target device, media, or both to become available. You can determine the specific reason why a job is waiting for a device, by clicking the Waiting for Device hyperlink to open the Target Group Status dialog.

Enhanced License Management

The CA ARCserve Backup License Management dialog has been enhanced to provide you with the total number of licenses issued to CA ARCserve Backup components that are installed in your environment .

Increased Session Number

The increased session number feature lets you save more sessions to a file system device (FSD), a disk staging device, or a deduplication device. You can now store up to 4GB on a single FSD, disk staging device or a deduplication device.

Tapecopy Support for NAS Sessions

The tapecopy utility lets you copy NAS sessions from one tape to another. This feature enhances your NAS session capabilities in the following ways:

- Lets you perform tapecopy of NAS sessions with or without a tape span situation (involving one or more tapes).
- Lets you perform a tapecopy of NAS sessions from the query mode.
- Lets you perform a tapecopy of NAS sessions using the "-entire" source option which allows you to copy all tapes in a group to another group.

NDMP NAS Option Support for x64 System

CA ARCserve Backup for Windows NDMP NAS Option now supports x64 operating systems.

SAP Agent Support for Windows-on-Windows

The Enterprise Option for SAP R/3 for Oracle now supports Windows-on-Windows (WOW). WOW64 is a subsystem of the Windows operating system that lets you run 32-bit applications on a 64-bit system.

Features Not Supported

The following support has been dropped from CA ARCserve Backup r12.5:

- CA ARCserve Backup r11.5 Agent for Ingres
- CA ARCserve Backup for UNIX r11.1 Agent for Oracle
- CA ARCserve Backup for Linux r11.1 Agent for Oracle
- Backward compatibility for managing a CA ARCserve Backup r12.1 server (CA ARCserve Backup r12.5 user interface will not manage a CA ARCserve Backup r12.1 server).
- Agent for Microsoft Data Protection Manager (DPM)
- The Unicenter Integration Option
- The ability to enable and disable the Catalog Database has been removed. The Catalog Database is now always enabled.
- The ability to manually configure file system devices (FSDs) and virtual tape libraries (VTLs) for staging backups has been removed. CA ARCserve Backup now specifies an optimal chunk size of 512 bytes.
- Integration with Microsoft Management Console (MMC)

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