



Managing Data Growth

Every day, our data keeps growing—much more so than in the past. This is understandable in today's business world as companies add new data types such as voice, graphics and multimedia, and also make better use of their data to manage and drive their business. Communications data such as email and instant messaging need to be saved and many other types of information must be kept to satisfy government regulations, avoid law suits and protect your business. Databases continue to grow with customer information, product information, market information, sales information and so on. The ca arcserve family of products provides various ways to quickly and easily manage and reduce backup data from physical and virtual servers so that you can realize the benefits sooner rather than later.

CHALLENGES

The Enterprise Strategy Group (ESG) conducted a survey recently, which found that the top two challenges that customers are facing today are keeping pace with growing volumes of data and reducing backup and recovery times. Within these two challenges, 11 percent of respondents listed keeping pace with the capacity of data to protect as their primary challenge. How can IT organizations speed and ease this process?

PRODUCT INFORMATION

With the CA ARCserve Family of Products, you can immediately reduce the volume of backup data that is stored by up to 95 percent while gaining ways to significantly reduce or eliminate your backup windows altogether. You also gain ways to significantly reduce backup storage costs, protect data between periodic backups, copy data off-site for disaster recovery and help ensure continuous availability for critical servers and data.

BENEFITS

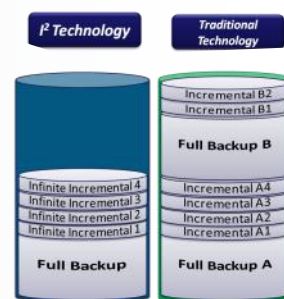
With the CA ARCserve Family of Products, IT organizations can realize an immediate benefit in the reduction of backup storage space—prolonging existing investments or increasing retention periods on disk for rapid recovery. Backups can be performed more frequently to increase recovery points and data can be copied to other locations, including the cloud, for disaster recovery or complete system failover. In addition, many customers also experience faster backups to help overcome backup window constraints.

The analyst firm ESG carried out research in which 50 percent of the respondents cited overall annual data growth rates in the range of 11 to 30 percent, with 28 percent reporting that their data is growing at more than 30 percent per year, driving up storage costs. Adding more storage has been the primary solution, but the costs of additional storage, space in the data center and the associated power and cooling are reaching unsustainable levels for many businesses, making management even more complex and time-consuming. Archiving and developing the right policies to delete data is complex and often futile because many companies decide not to delete any data in the end—just to play it safe. Backup typically makes multiple copies of the same data, so most IT organizations first look to reduce the number of backup copies. One option to consider is data deduplication—which eliminates redundancies in your data and only stores changes made to the original data. Another option is to perform infinite, incremental backups, which store a single, full backup and then only capture the changes thereafter. How do you decide where to start reducing your storage costs without negatively impacting your ability to recover your data quickly?

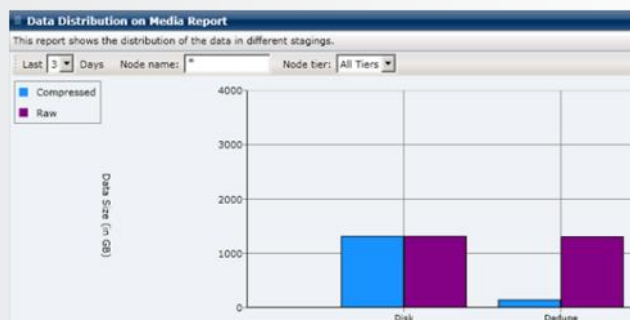
The solution: CA ARCserve Family of Products

The CA ARCserve Family of Products gives you control over your evolving business by delivering total protection, recovery and availability for your systems, applications and data. The CA ARCserve Family of Products is the only solution that offers a full range of products from bare-metal restore to fully automatic failover for high availability with built-in data reduction technologies. You get a complete strategy to manage data growth, along with total backup, recovery and availability for both physical and virtual servers.

CA ARCserve® D2D provides a fast and easy way to improve levels of protection while reducing the volume of data stored as part of the backup process across physical and virtual servers. Its block-level, infinite, incremental snapshot, based on the I² technology™ from CA Technologies, will drastically reduce your disk storage (see diagram), while also reducing your backup window, network traffic and load on your production applications. Like deduplication, this patent-pending technology has been designed to intelligently manage the backup of only blocks of data that have changed since the last backup and the presentation of a consolidated, point-in-time view of the protected volume for multiple recovery types. Backups only capture the changed data, so you can perform backups every 15 minutes for greater levels of protection and improved recovery point objectives. CA ARCserve D2D also includes archiving of data to disk or cloud to reduce the volume of data being backed up, reducing network traffic, backup windows and storage requirements.



CA ARCserve® Backup includes built-in data deduplication that can reduce backup data stored by as much as 95 percent—providing immediate savings in disk space. CA ARCserve Backup performs data deduplication on the backup Media server, offloading any processing requirements from Production servers while also maximizing the likelihood of finding duplicate data. The CA data deduplication technology is very efficient because it compares data such as Exchange email data to Exchange email data, and Microsoft® SQL Server data to SQL Server data, because this increases the probability of finding duplicate data.



Data deduplication can also be done globally across multiple servers to reduce system file storage. In this case, it only compares data on the C drive because that has the highest probability of redundant data. CA ARCserve Backup also includes a dashboard with Storage Resource Manager (SRM) reporting, showing exactly how much disk space is being saved by data deduplication—as well as showing other key data across the entire environment. Data deduplication is easy to set up and turn on with CA ARCserve Backup, enabling anyone to take advantage of the savings that it offers.

New synthetic full backups in CA ARCserve Backup also reduce the volume of data that is backed up by eliminating the need to run a weekly full backup. CA ARCserve Backup performs a full backup and then incremental backups are synthesized to create a full backup of the data as it originally appeared at the recovery point, enabling you to recover as if each backup was a full backup—resulting in reduced backup storage with faster and easier recovery of your data. CA ARCserve Backup also includes archiving of data to disk, tape or the cloud to reduce data being backed up. This delivers reduced backup windows, network traffic and storage management costs.

CA ARCserve Backup and CA ARCserve D2D help reduce the overall volume of data that is stored as part of the backup and data protection process.

Overview of the CA ARCserve Family of Products

CA ARCserve Backup goes beyond backup, giving businesses highly reliable data protection with centralized management that makes sense, no matter how complex your data or IT infrastructure is. CA ARCserve Backup offers all this at a fraction of the cost of the competition. Reduce your backup storage by up to 95 percent and regain precious time with the only product that combines data deduplication; integrated backup copy to cloud storage; granular restore of applications such as Active Directory®, Microsoft Exchange and Microsoft SharePoint®; Infrastructure Visualization; and archiving—for both physical and virtual servers in a single package.¹ In addition, synthetic full backups reduce backup windows and integration with CA ARCserve D2D provides a single catalog to recover data regardless of how it was backed up.

CA ARCserve D2D provides fast and easy backup to disk and is the only Windows®-based backup solution that offers infinite, incremental (I2) backups and bare-metal restore—including to dissimilar hardware. This new backup methodology changes how backups are performed to significantly reduce backup and restore times and eliminate the inherent risks of tape devices and media. It also enables faster and granular recovery points—up to every 15 minutes—speeding data recovery, either from local data on disk or remote data stored in the cloud. Centralized deployment, management and reporting reduce implementation and management effort and provide status information to you for increased peace of mind. The new **CA ARCserve® Central Host-Based VM Backup** application for VMware virtual servers simplifies protection of all virtual servers on a physical host while the new **CA ARCserve® Central Virtual Standby** application provides near-instantaneous recovery of any server as a VM. Companies that have an installed backup system can use CA ARCserve D2D to improve their recovery time.

CA ARCserve® Central Applications deliver greater integration and easily add new functionality across the CA ARCserve Family of Products for improved recovery time, reduced IT management workload and enhanced backup of your virtualized servers. **CA ARCserve® Central Protection Manager** provides a centralized view and management of all servers and workstations that CA ARCserve D2D protects, reducing IT workload through simplified, policy-based administration. **CA ARCserve® Central Reporting** provides centralized reporting on all devices, settings and policies running on-premise and off-premise that are protected by CA ARCserve Backup and CA ARCserve D2D, so you can easily understand what is happening across your environment. **CA ARCserve Central Host-Based VM Backup** uses CA ARCserve D2D to protect a single VMware host environment, performing backup of all VMs via a single-pass backup without having to install CA ARCserve D2D inside each VM. It enables granular recovery of files and folders from each individual VM and the restore of supported applications running within a VM, simplifying protection and recovery of your virtual servers. Finally, **CA ARCserve Central Virtual Standby** makes CA ARCserve D2D backups available to run like regular VMware Virtual Machine Disk (VMDK) or Microsoft Virtual Hard Disk (VHD) virtual servers. It automatically pre-registers each recovery point with the hypervisor for immediate recovery as a VM if a system outage occurs. The recovery transfer time is eliminated and VMs can be powered on manually or automatically when they are needed to provide near-instantaneous recovery.

CA ARCserve® Replication, formerly known as CA XOSoft™ Replication, provides continuous data protection for Windows, Linux® and UNIX® systems on physical and virtual systems. You get an easy way to migrate and copy data between servers and locations, as well as between remote offices, and a central site for backup and archiving. It delivers local area network (LAN) and wide area network (WAN) continuous and periodic replication, whether on-premise, off-premise or in the cloud. You get Data Rewind for continuous data protection (CDP) to complement any periodic backup solution, helping to speed recovery and minimize data loss. Only CA ARCserve Replication offers offline synchronization, multi-stream replication, bandwidth throttling and multiple replication options to help balance network resources with your desired level of protection.

CA ARCserve® High Availability, formerly known as CA XOSoft™ High Availability, includes all the features of CA ARCserve Replication and adds continuous system, application and data availability for your critical systems. It provides server and application monitoring, automatic and push-button failover and push-button failback to reduce risk to your sales, service, operations, employee productivity and reputation. Unlike other high-availability solutions, CA ARCserve High Availability does not require any cluster architecture or additional “witness servers,” responds to issues at the server and application levels and includes Data Rewind for CDP and automated, non-disruptive recovery testing to make sure that IT resources are available when they are needed. Only CA ARCserve High Availability offers offline synchronization to speed deployment with large Windows data sets and databases, and a unified, web-based management service.



The CA ARCserve Family of Products, along with affordable, flexible and simple licensing options, makes CA Technologies the value leader in the market, delivering enterprise-class system, application and data protection, recovery and availability for a wide range of operating environments and applications. Certified across an extensive range of industry platforms and applications, the CA ARCserve Family of Products provides compatibility and support for small and large heterogeneous environments.

Benefits

Leveraging the CA ARCserve Family of Products helps to ensure the protection and availability of your physical and virtual servers and helps to reduce the volume of data stored for recovery. Benefits include:

- Built-in data deduplication, archiving and other data reduction technologies to help reduce costs.
- Easier and faster backup and recovery of your servers, applications and data.
- Continuous data protection to help keep data and information accurate, supporting regulatory compliance initiatives.
- High availability for systems, applications and data to minimize downtime that affects top and bottom lines single solution for physical and virtual servers to help reduce complexity and simplify training.
- Centralized and automated management so that your IT staff can focus more on growing the business.

Next steps

Learn more about the CA ARCserve Family of Products by visiting arcserve.com/products. Please contact your local reseller or visit shop.arcserve.com/partner-locator to locate an authorized partner in your area.

To try the CA ARCserve Family of Products now, visit arcserve.com/software-trials.