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# Remote Office Data Protection

We all know that performing backup at remote offices can be challenging and risky. It's often performed by non-it staff who then have to transport the data on physical media to your data center, headquarters or alternative location for disaster recovery purposes. The ca arcserve family of products gives you a better solution for remote office data protection and system high availability. You get the control, scalability and flexibility that you need to address your evolving business.

## CHALLENGES

Protecting your remote or branch offices is challenging at best—so much so that many organizations don't even do it. You have geographically distributed locations, most without local IT staff. The wide variety of operating systems, applications and data makes protection more complex. Also, how do you get a copy of your backups off-site for disaster recovery purposes? Many just make copies to tapes and physically transport them to a central location—which is risky and costly.

## PRODUCT INFORMATION

The CA ARCserve Family of Products enables you to automate the backup process and perform timely, secure, disk-to-disk backups without relying on non-IT staff at your remote offices. It does all this through a centralized management and reporting console. Forget about physical tape rotation in and out of branches; just replicate right over the wide area network (WAN) to any remote location, including the cloud, for off-site data protection. Alternatively, replicate first to consolidate all your remote office data at a central site and then perform the backup

## BENEFITS

Whether you have one remote office or hundreds of offices around the globe, with the CA ARCserve Family of Products, remote offices gain the same level of data protection as the data center. Built-in automation and remote deployment, management, alerting and reporting improve IT productivity, enabling you to focus on other critical activities. Overall, data protection and disaster recovery are simplified, and risks associated with remote office backup are minimized

Today, many businesses, government agencies and even higher education institutions face the daunting task of protecting the information that is stored at remote offices and branch offices. Historically, some of these organizations have utilized a disk-to-tape solution for backup. This typically requires someone to perform the backup and manage the media, whether it's an IT Administrator who travels to the remote office or a local reseller or service provider who helps the organization. In the worst, but often frequent, case, the organization relies on a non-IT remote office employee such as an administrator or other staff. Most organizations have to run backups at least on a daily basis to meet ever-demanding recovery point objectives (RPOs), which set the amount of data that an organization is willing to risk losing between periodic backups.

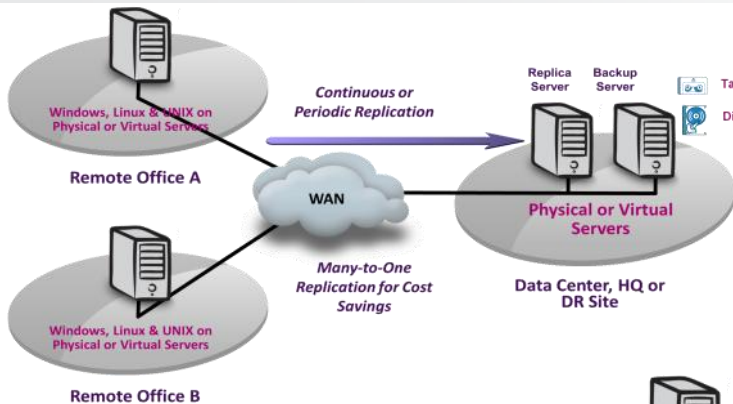
This strategy presents numerous challenges to these organizations. First, they have the cost of a tape drive or tape library and media. Next, they have the cost of an IT Administrator from a data center traveling to remote offices to run the backup and respond to failed backup jobs that could be caused by a hardware, software or media failure. Even if the IT staff use a remote access solution to run the backup or restore job on a server in the remote office, there can still be issues if the necessary media is not installed in the drive, causing someone to search for the correct tape and insert it into the drive. Last, but not least, for security and disaster recovery purposes, most organizations prefer to keep the backup tapes or media at a central location such as their data center or headquarters. This requires organizations to either hire a messenger service to pick up the backup tapes or worse, request an employee at each remote office to bring the tapes into the headquarters following the backup. These organizations face a high risk of damaged, lost or stolen tapes, as we've all read about many times in the news

## The solution: The CA ARCserve Family of Products

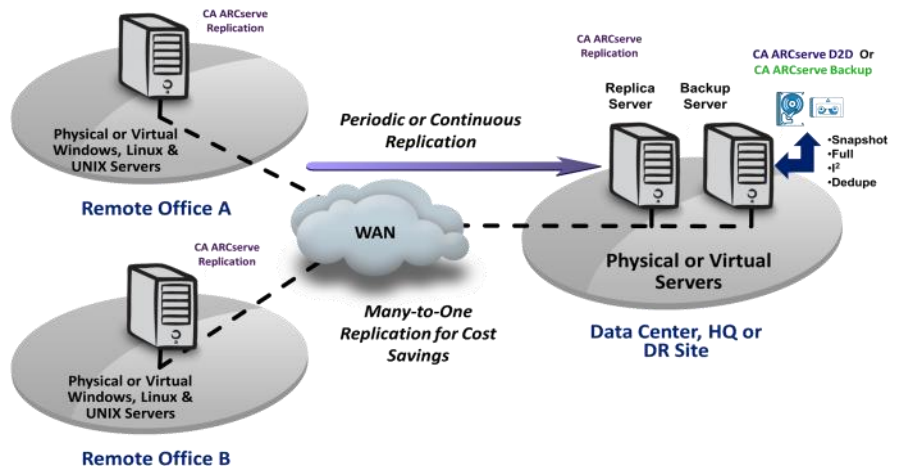
The CA ARCserve Family of Products gives you control over your evolving business by delivering total protection, recovery and availability for your remote office servers, applications and data. The CA ARCserve Family of Products is the only solution that offers a full range of products from bare-metal restore to fully automatic failover for high availability, whether they are deployed on-premise, off-premise or in the cloud. You get a complete strategy to manage backup, recovery and availability in both remote offices and data centers.

CA ARCserve® D2D provides fast and easy backup to disk and is the only Windows®-based backup solution that offers infinite, incremental (I2) backups. 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. Granular restore and bare-metal restore help you more quickly and easily recover lost or damaged data and rebuild damaged servers in remote offices, from any location, using the web-based management console. Once remote office backups are completed, CA ARCserve® Replication makes transferring those backups off-site for disaster recovery quick and easy. After the initial synchronization between the CA ARCserve D2D repository at the remote office and the Replica server at your data center, DR site or cloud facility, only block-level changes are transferred over the WAN, keeping network requirements to a minimum. Scheduled replication and WAN optimization features enable you to leverage lower network utilization time periods and avoid increasing WAN bandwidth purchases. This solution provides companies with fast recovery from a local disk as well as rapid recovery from a remote disk in case anything happens to the local office.

Alternatively, CA ARCserve Replication can be used to replicate Windows, Linux® and UNIX® data from remote offices to aggregate all data in a central location. Then, disk or tape backups can be performed by using CA ARCserve® Backup or CA ARCserve D2D right off the Replica server, avoiding any impact to remote office servers and staff. In this scenario, replication can be set to occur continuously, providing even better data protection and preparedness for disaster recovery, or scheduled periodically as you see fit. This solution provides companies with rapid recovery from a remote disk and long-term storage of the remote office data to meet corporate requirements. However you design your data protection strategy, the CA ARCserve Family of Products provides total protection, recovery and availability for your remote offices and data centers.



Perform backups at each remote office and then replicate them off-site for disaster recovery. Alternatively, replicate all remote office data to a central site and then run centralized, non-disruptive backups. Choose the best solution for your environment. You get total flexibility!



## 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.<sup>1</sup> 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 (I<sub>2</sub>) 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 more 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 across your environment, including remote offices, 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 with 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 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 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. You get the flexibility, agility and scalability you need to protect a handful of servers, or thousands of servers that are geographically dispersed. The CA ARCserve Family of Products delivers a “future-proof” solution that grows with your company or organization.

## Benefits

Leveraging the CA ARCserve Family of Products helps to ensure the protection and availability of your remote office data on which your business or organization depends. Benefits include:

- Easier and faster backup and restore for physical and virtual servers with reduced storage costs.
- Protection for your desktop and laptop systems with infinite, incremental backups and bare-metal restore.
- Periodic and continuous data protection to help keep data and information accurate.
- High availability for critical applications to help mitigate the risk of system and application downtime.
- Support for Windows, Linux and UNIX on 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.