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# CA ARCserve® Replication



How much is lost and damaged data affecting your company's top and bottom lines, employee productivity and reputation? How can you address today's demanding service-level agreements (slas) and business continuity (bc) and disaster recovery (dr) strategies? Don't compromise! CA ARCserve Replication, formerly known as CA XOssoft™ Replication, helps you to minimise data loss and mitigate risks. The result: you get continuous data protection and data migration, whether it is deployed on-premise, off-premise or in the cloud. CA ARCserve Replication does all this from a single, unified web-based management console—delivering the agility, security and control that you need today.

## OVERVIEW

Today, organisations need better data protection than traditional backup and restore alone can offer. To meet demanding SLAs, you need a better and faster way to recover data after accidental or malicious damage or loss. What's more, you also need a less risky way to copy or migrate data to and from remote sites when physical media transport is not the best option for your business. Many organisations also need a better way to migrate from physical to virtual servers as well as to consolidate remote office data for central backup or disaster recovery.

## BENEFITS

CA ARCserve Replication software makes migrating data from one server to another, or from one location to another, quick and easy. You can now use an MSP-hosting facility as well as a private or public cloud to gain scalability and flexibility. In addition, you can easily copy backups off-site from your data center or remote offices, eliminating risky, costly and time-consuming physical media transport. You get more than just replication, too. You get continuous data protection (CDP) to protect data between periodic backups, using Data Rewind for the most granular recovery.

## THE CA ARCSERVE ADVANTAGE

CA ARCserve Replication protects Windows®, Linux® and UNIX® file and application servers. It is a single solution for both physical and virtual servers and includes many unique features such as integrated system state and registry protection and VSS Snapshot management. You also get continuous and periodic replication options, compression, multi-stream replication, bandwidth throttling and offline synchronisation—all designed to optimise network bandwidth. And integration with CA ARCserve® Backup means total data protection, while easing management.

## We go beyond backup so that your business can go beyond today

CA ARCserve Replication offers both local area network (LAN) and wide area network (WAN) optimised replication for on-premise and off-premise data protection. You get built-in 128-bit Secure Sockets Layer (SSL) encryption across the network for security without the need for a virtual private network (VPN) or IPSec tunnel. In addition, you now get to use the Amazon cloud (Amazon Web Services™ (AWS) and Amazon Elastic Compute Cloud (Amazon EC2)) for Windows-based systems, applications and data protection. CA ARCserve Replication is the perfect tool to migrate backup data off-site for disaster recovery, or copy data from remote offices to a secure, central location where trained IT personnel can perform backup. In addition to bandwidth throttling, you may choose between continuous, scheduled/periodic and ad-hoc replication processing to help balance your network resources and protection requirements.

CA ARCserve Replication synchronises your data and then replicates all ongoing changes from your Production server to a Replica server that can be located at the same site or at any remote location regardless of distance. It provides application-aware replication for automated configuration and transactional integrity for applications such as Microsoft® Exchange, Microsoft SQL Server®, Microsoft SharePoint®, Internet Information Services (IIS), Microsoft Dynamics CRM, Oracle and BlackBerry®—all through a unified, web-based management console. You can protect other Windows applications by using the Custom Application Protection wizard or by a simple script. In addition, you can protect other Linux and UNIX applications via a simple script.

The product's Data Rewind feature provides integrated Continuous Data Protection (CDP) technology that complements your periodic backups. It delivers fast recovery—helping you to meet even your most aggressive recovery point objectives (RPOs) and recovery time objectives (RTOs).

CA ARCserve Replication includes automated, non-disruptive recovery testing of Windows Server® environments. This enables you to schedule "lights-out" periodic testing of your failover environment without disrupting the production environment or ongoing replication and CDP protection. You can capture your testing history in a report for auditing. CA ARCserve® Assured Recovery® also includes VSS Snapshot



management on the Replica server. This means that you may take a snapshot immediately after testing and then run backup off the Replica server for application-consistent, non-disruptive backup, helping you to overcome backup window constraints.

So many virtualisation options in one place! CA ARCserve Replication is used to protect systems and data on both physical and virtual servers, including VMware ESX and VMware vSphere™ with VM-level protection. Microsoft Hyper-V users get both hypervisor and guest-level protection, and Citrix® XenServer users get guest-level protection. You may also use any of these virtual servers for your Replica servers to help further reduce DR costs. CA ARCserve Replication enables physical-to-physical (P2P), physical-to-virtual (P2V), virtual-to-physical (V2P) and virtual-to-virtual (V2V) replication and migration, and helps to speed and ease the process.

Being storage-independent means that your data is protected whatever type of storage you use: direct attached storage (DAS), network attached storage (NAS) and storage area network (SAN). It also means that no matter what storage you use for your production environment, you may use whatever storage vendor and device you want for your Replica servers, helping to reduce data protection and DR costs further.

Whether you protect a single server, a server farm or cluster or thousands of distributed servers, CA ARCserve Replication scales to meet your need, protecting your investment for the long term. It helps you to mitigate the risk of loss of sales, service, support, operations and productivity caused by data loss or damage, as well as unexpected manmade and natural disasters. In addition, using a web-based, centralised management console means that deployment, management, maintenance and reporting couldn't be easier.

For bandwidth-constrained and high-latency networks, CA ARCserve Replication provides WAN optimisation features including compression, bandwidth throttling, multi-stream replication, periodic replication and offline synchronisation.

Don't compromise! CA ARCserve Replication delivers continuous 24x7x365 data protection, not just once a day. Remote management enables fast and easy recovery no matter where you are. Bottom line, you get the control and flexibility that you need in today's demanding environment.

## New features

CA ARCserve Replication r16 provides new functionality that expands its value to you and offers additional protection, flexibility and security through the following new features.

**FULL SYSTEM REPLICATION** replicates a Windows operating system, system state, application and data through physical-to-virtual and virtual-to-virtual replication to an offline local or remote Microsoft Hyper-V, VMware vSphere and Citrix XenServer virtual server to speed CA ARCserve Replication deployment. This feature also makes physical-to-virtual server migration quick and easy.

**AMAZON CLOUD (AWS AND AMAZON EC2) INTEGRATION** enables the use of Amazon's data center and resources for your Replica servers. Cloud resources can help you replace capital expenditure (CAPEX) with operational expenditure (OPEX) while benefiting from using a remote site with a defined service-level agreement for disaster recovery. This feature supports Windows Server 2003 32/64-bit and Windows Server 2008 R2 64-bit.

**SECURE COMMUNICATION** provides 128 bit SSL encryption across the network without the need for a VPN or IPSec tunnel, thereby reducing cost and complexity.

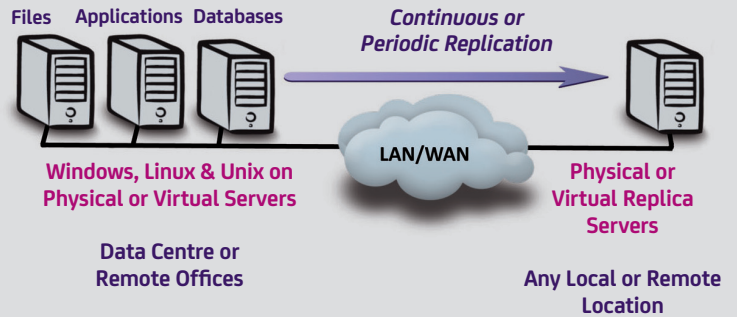
**WINDOWS SERVER 2008 FAILOVER CLUSTER SUPPORT** complements a Windows failover cluster with replication to any local or remote site, regardless of distance, for disaster recovery. It also eliminates your storage as a single point of failure. Integration with Microsoft System Center Operations Manager makes management faster and easier.

**VMWARE VCENTER SERVER V4 SUPPORT** protects the VMware management system and provides fast recovery.

***\*If you require server monitoring with automatic failover and end-user redirection for high availability to reduce system downtime in addition to the data protection capabilities that CA ARCserve Replication provides, take a look at CA ARCserve® High Availability.***

**CA ARCSERVE REPLICATION** makes copying or migrating data between servers and locations quick and easy. Replication is typically performed on a real-time, continuous basis or may be scheduled for periodic occurrence to help you to balance available network resources with the desired level of protection. It is also an ideal way to migrate from physical to virtual servers and copy backups off-site for disaster recovery, eliminating risky and time-consuming physical media transport.

Customers worldwide use CA ARCserve Replication to aggregate data from remote offices to a central location to perform centralised, secure backups. This eliminates the pain of performing individual remote office backups as well as the need for physical media rotation for disaster recovery (DR). With this strategy, you can also eliminate your backup window constraints because backups are performed at the replica site instead of on the remote office servers. Alternatively, it is possible to perform disk-based backups in remote offices and then replicate them off-site for disaster recovery.



## Bottom-line benefits

Leveraging CA ARCserve Replication helps to ensure the protection and availability of the databases and files on which your business or organisation depends and provides the following benefits.

- Minimising data loss helps you to maintain your sales momentum, customer service and support. This typically results in keeping executives, employees and investors happy, and customers retained and satisfied.
- Continuous data protection helps you keep data and information accurate. It also minimises the manual data re-entry that is typically required after unplanned loss or damage.
- A single solution for Windows, Linux and UNIX; being hardware-agnostic; supporting multiple server virtualisation platforms; and many-to-one replication all help your IT staff to reduce training and costs.
- Centralised, unified and automated management means that your IT staff can focus on other important initiatives.

## The CA ARCserve advantage

CA ARCserve Replication delivers the data migration and continuous data protection capabilities needed to meet today's demanding SLAs and disaster recovery strategies.

CA ARCserve Replication complements ANY backup solution. When you combine it with CA ARCserve Backup or CA ARCserve® D2D, you get total data protection. CA ARCserve Replication is part of the CA ARCserve Family of Products that together deliver total protection, recovery and availability of your systems, applications and data.

## Supported platforms

CA ARCserve Replication supports a wide range of operating systems and virtualisation platforms:

- Windows Server 2003, 2008 and 2008 R2 in Standard or Enterprise Edition (32-bit or 64-bit)
- Windows Small Business Server 2003 and 2008 in Standard or Premium Edition
- UNIX AIX Version 5.3, 6.1 and 7.1; Solaris 10 and 11; SPARC and Intel
- Red Hat Enterprise Linux 5, 5.5 and 6; and SUSE Linux 10 and 11
- VMware ESX 4.0 and 4.1; VMware vSphere 4.0 and 4.1; VMware VirtualCenter 2.5.x; and VMware vCenter™ Server 4.0x and 4.1x
- Microsoft Hyper-V 1.0 and 2.0
- Citrix XenServer 5.5 and 5.6
- Amazon AWS/EC2 support for Windows Server 2003 32/64-bit and Windows Server 2008 R2 64-bit

## Application-aware replication

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The term “application-aware” means auto-configuration for fast, easy deployment as well as transactional integrity during replication. CA ARCserve Replication features application-aware replication for:

- File Services for Windows Server 2003 and 2008 in Standard or Enterprise Edition (32-bit or 64-bit)
- Microsoft Exchange Server 2003, 2007 and 2010 in Standard or Enterprise Edition
- Microsoft SQL Server 2005, 2008 and 2008 R2 and SQL Server Express 2005/Microsoft Data Access Components (MDAC)
- Microsoft SharePoint Server 2007 and SharePoint 2010
- IIS versions 6, 7 and 8
- Microsoft Dynamics CRM v4
- BlackBerry Enterprise Servers (BES) 4.x and 5
- Oracle 10g and 11g

***Additional Windows applications can be protected by using the new Custom Application Protection wizard or by writing a simple script. You can protect other Linux and UNIX applications through simple scripting.***

## Next steps

You know how critical your data is to the success of your business or organisation and how important it is to keep it available and reliable. CA ARCserve Replication offers powerful and flexible features to help safeguard your IT resources along with easy ways to deploy, manage and maintain this solution.

## Try it for yourself

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Try CA ARCserve Replication for free at [arcserve.com/software-trials](http://arcserve.com/software-trials) and see why thousands worldwide trust it for their critical applications and information.