Product Brief

According to a recent study, businesses lose hundreds of thousands of dollars each year due to system downtime. How much is your business losing? Why wouldn't you want to immediately reduce that impact to your top and bottom lines? Why risk your company's sales, service, operations, employee productivity and reputation? High availability is no longer reserved for large enterprises. It is now considered a standard for any business that depends on consistent availability and continuous protection of its critical systems, applications and data. In this way, businesses can fulfill demanding service-level agreements (SLAs) or strengthen their business continuity (BC) and disaster recovery (DR) plans. Don't compromise! CA ARCserve High Availability delivers continuous system, application and data availability—whether it is deployed on-premise, off-premise or in the cloud. The result: you gain the agility, control and protection that you need today.

OVERVIEW

We all know that even one single service disruption or data loss can seriously damage your business and operation. It's up to you to prevent disruptions like these from affecting your sales, services and support before they can translate into lost customers, lost revenue or damage to your company's productivity and reputation. The good news is that CA ARCserve High Availability, formerly known as CA XOsoft™ High Availability, provides an easy and flexible way to maintain system, application and data availability, protect information assets and quickly recover from unplanned outages, as well as data loss and damage.

BENEFITS

Minimizing system downtime and data loss has never been easier. Whether you protect a single server or thousands of servers, CA ARCserve High Availability is the only product that provides high availability and continuous data protection (CDP) for Windows®, Linux® and UNIX® environments on both physical and virtual servers—all from a single, unified management console. In addition, you get a single solution for all your Microsoft applications such as Microsoft® Exchange, SQL Server®, SharePoint® and Internet Information Services (IIS) instead of using different solutions for each application. You can protect other critical third-party and custom applications, too.

THE CA ARCSERVE ADVANTAGE

Replication and high-availability technologies that are provided in some applications and operating systems leave many gaps. Implementing separate point solutions can be costly and complex to manage. CA ARCserve High Availability provides many innovative and integrated technologies that you cannot find in any other single solution. You can deploy these technologies on-premise, off-premise and in the cloud. Why manage and maintain separate solutions for physical and virtual servers when you can use one for both, giving you the control and flexibility that you need. Integration with CA ARCserve® Backup provides an even higher level of data protection, while easing management

When your systems go down, all eyes are on you.

Trusted by thousands of customers worldwide, CA ARCserve High Availability software helps you minimize system and business downtime and data loss caused by things like accidental and malicious damage, administrator error, unplanned and planned system outages, natural and manmade disasters and even complete site loss. You'll be in a much better position to meet demanding SLAs that periodic backup and restore alone can't satisfy. CA ARCserve High Availability helps you to protect both physical and virtualized servers. It also complements whatever backup solution you use today, delivering a high-performance business continuity and disaster recovery solution that you can count on. Whether you protect a single server or thousands of servers, you get system scalability that grows with your business. End those frantic calls at 2am and during the weekend. Now you're protected 24x7x365.

The process is simple! CA ARCserve High Availability first synchronizes the data on your Production server and a second Replica server (physical or virtual) that you provision locally on the local area network (LAN), at any remote location regardless of distance and even in the cloud. Alternatively, for Windows environments, you can use the Full System High Availability feature to automate the provisioning of your Replica server (using a virtual server) to speed deployment. Once synchronized, CA ARCserve High Availability continuously replicates new data and all ongoing changes from your Production server to the Replica server. It provides application-aware replication, which means automated configuration and transactional integrity for applications such as Exchange, SQL Server,

SharePoint, IIS, Microsoft Dynamics CRM, Oracle and BlackBerry®. You can use it with Windows, Linux and UNIX file servers, too – 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 Linux and UNIX applications via a simple script

Then, CA ARCserve High Availability provides real-time server and application monitoring, automatic and push-button failover, automated end-user redirection and push-button failback functionality—all to help minimize system downtime. Unlike complex distributed cluster and storage area network (SAN) replication solutions, you get granular, application-aware protection, recovery and availability for systems and data in a single solution—it doesn't get easier than that! You may also use the push-button failover feature to proactively fail over to your replica systems before an impending disaster such as a hurricane, blizzard or flood—but it also works with less scary things such as server maintenance so that you can avoid planned system downtime, too.

The Data Rewind feature, combined with real-time replication, provides integrated Continuous Data Protection (CDP) to complement periodic backup. It also delivers fast data recovery—helping you to meet aggressive recovery point objectives (RPOs) and recovery time objectives (RTOs). Just rewind the Replica server back to any known, good point in time and quickly recover lost data and databases.

CA ARCserve High Availability is the only product in the market that includes CA ARCserve® Assured Recovery® for automated, non-disruptive recovery testing in 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.

CA ARCserve High Availability is used to protect data on both physical and virtual servers, including VMware ESX and VMware vSphere™ with VM-level protection and built-in VMware vCenter™ Server High Availability. 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. It also enables physical-to-physical (P2P), physical-to-virtual (P2V), virtual-to-physical (V2P) and virtual-to-virtual (V2V) replication.

For bandwidth-constrained and high-latency networks, CA ARCserve High Availability provides wide area network (WAN) optimization features including compression, bandwidth throttling, multi-stream replication, periodic replication and offline synchronization. In addition, being storage-independent means that your systems and data are protected whatever type of storage you use: direct attached storage (DAS), network attached storage (NAS) and 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 costs further.

New Features

CA ARCserve High Availability 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 AND FAILOVER replicates the operating system, system state, application and data through physical-to-virtual(P2V) and virtual-to-virtual (V2V) replication to an offline local or remote Microsoft Hyper-V, VMware vSphere, and Citrix XenServer virtual server. This feature automatically stands-up the Replica server and fails over when needed. It also makes P2V migration quick and easy.

AMAZON CLOUD (AMAZON WEB SERVICES™ (AWS) AND AMAZON ELASTIC COMPUTE CLOUD (AMAZON EC2)) INTEGRATION enables the use of Amazon's data center and resources for the failover server to replace CAPEX with OPEX while benefiting from having a remote site with defined service level agreement for disaster recovery. You get continuous system and data replication using virtual cold standby that minimizes your cloud services cost as you only pay for failover time used. Support for Windows Server 2003 32/64-bit and Windows Server 2008 R2 64-bit.

SECURE COMMUNICATION provides 128-bit Secure Sockets Layer (SSL) encryption across the network without the need for a virtual private network (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.
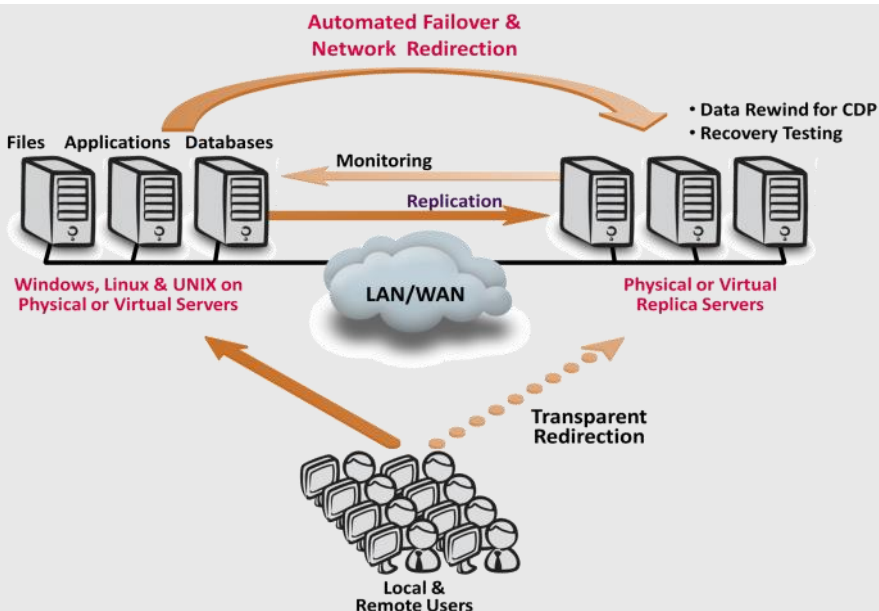
VMWARE VCENTER SERVER V4 SUPPORT protects the VMware management system and provides fast recovery

CA ARCSERVE HIGH AVAILABILITY

helps to ensure that your critical systems, applications and data are available to mitigate the risk of business downtime that would affect sales, service, support, employee productivity and even reputation.

It monitors your servers and applications and can automatically fail over and redirect end users at the first sign of trouble. Alternatively, administrators can first investigate the issue and use push-button failover and end-user redirection at their discretion.

After the primary server or application is repaired or replaced, CA ARCserve High Availability provides push-button failback to resynchronize the Replica server with the Production server. Then, workloads return to the primary server and replication and failover protection resumes as usual.

Bottom-line benefits

Leveraging CA ARCserve High Availability helps to ensure the availability and reliability of the critical applications, databases and files on which your business depends and provides the following benefits.

- Minimizing system downtime helps you to maintain your sales momentum, customer service and support. This typically results in keeping executives and investors happy, and customers retained and satisfied.
- Continuous data protection helps you keep data and information accurate.
- A single solution for Windows, Linux and UNIX; being hardware-agnostic; and supporting server virtualization and the cloud all help your IT staff to reduce training and costs.
- Centralized, unified and automated management means that your IT staff can focus on other important initiatives.

The CA ARCserve Advantage

CA ARCserve High Availability delivers system, application and data availability along with continuous data protection capabilities needed to meet today's demanding SLAs and BC/DR strategies.

CA ARCserve High Availability complements ANY backup solution and, when combined with CA ARCserve Backup or CA ARCserve D2D, you get high availability and total data protection. CA ARCserve High Availability is part of the CA ARCserve Family of Products that together delivers total protection, recovery and availability of your systems, applications and data. The CA ARCserve Family of Products goes beyond backup so your business can go beyond today.

Supported Platforms

CA ARCserve High Availability supports a wide range of operating systems and virtualization 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 and Failover

The term "application-aware" means auto-configuration for fast, easy deployment as well as transactional integrity during replication. CA ARCserve High Availability 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 application support can be achieved by using the new Custom Application Protection Wizard or through simple custom scripting. Other Linux/UNIX applications can be protected via simple script.

Please refer to the CA Support Website for the complete list of currently supported platforms, operating systems and applications

Next Steps

CA ARCserve High Availability offers powerful and flexible features to help safeguard your IT resources along with an easy way to deploy, manage and maintain this solution.

Discover how CA ARCserve High Availability can help your organization meet its system, application and data protection needs by visiting arcserve.com/highavailability or contact your local reseller.

Try it for Yourself

Try CA ARCserve High Availability for free at arcserve.com/software-trials and see why thousands worldwide trust it for their critical applications and information.