

PRODUCT FAMILY BRIEF: CA XOSOFT

# CA XOsoft™ r12.5 Product Family Enables Business Continuity and Disaster Recovery

## CA Recovery Management

CA ARCserve® Backup

CA XOsoft™ Replication and High  
Availability

CA Instant Recovery On Demand  
Managed Services

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## CA XOssoft Product Family

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CA XOssoft™ Replication

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CA XOssoft™ High Availability

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CA XOssoft™ Content Distribution

Because a single service disruption — whether it is the failure of a critical system, an unplanned outage or natural disaster — can do irreparable damage to your organization, you need the most comprehensive business continuity (BC) and disaster recovery (DR) measures available. After all, the right technology means the difference between staying in business — or losing customers, revenue and brand reputation. To this end, the CA XOsoft™ Product Family helps you mitigate organizational risk by providing an easy and flexible way to protect enterprise assets and quickly recover vital applications and information.

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## Overview

In today's fast-paced, information-driven business climate, ensuring the ongoing availability and reliability of core IT assets is among any organization's largest concerns. With a full suite of comprehensive BC and DR functionality, the CA XOsoft Product Family provides the level of protection your business needs to help minimize downtime and data loss — no matter the source or severity of the disruption.

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## Benefits

With cutting-edge data replication technologies, recoverability testing and systems monitoring capabilities, the CA XOsoft Product Family delivers robust functionality that enables you to create strong BC and DR capabilities. As such, you will be positioned to quickly respond to service disruptions, restart critical systems and applications and reduce the negative effects both planned and unplanned downtime can have on revenue, reputation and customer loyalty.

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## The CA Advantage

The CA XOsoft Product Family provides a wide range of capabilities that focus on helping you implement and manage effective BC and DR measures that are tailored to your specific business needs. And as a key component of CA's Recovery Management framework, the CA XOsoft Product Family represents an important component of a robust, comprehensive data protection solution — one that helps you unify and simplify the backup and recovery of all assets within your IT infrastructure.

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## Achieving Flexible Business Continuity and Disaster Recovery

Today, organizations of every size and in every industry conduct the majority of their internal and external business electronically, and as a result, have grown increasingly dependent on reliable, continuous access to the mission-critical systems and applications that promote innovation and drive competitive advantage.

And as this reliance on the availability of technology and systems has grown, so too have the number, type and severity of the threats resources face each day — including everything from viruses, malware and accidental or malicious data corruption, to application failures and natural disasters. And to make matters worse, IT organizations must strive to ensure that such routine activities as server migrations and maintenance, application testing and server consolidation and virtualization do not jeopardize business operations.

Another factor amplifying the pressure on IT is the need to conduct business as quickly — and cost effectively — as possible. For example, losing enterprise-wide email connectivity for a prolonged period of time may have been nothing more than a nuisance for many organizations fifteen years ago. But today, the same issue will undoubtedly result in a tremendous loss of productivity, waning customer satisfaction and a tarnished public image.

While most organizations have implemented solid backup, restore and security procedures at their production sites, most remote offices and branch offices (ROBOs) lack the same comprehensive protection. Because the backup hardware housed at these locations is usually managed by less experienced personnel — *or run without the support of any IT staff* — many ROBOs are not subject to the same rigorous monitoring, testing and maintenance processes as the main sites. As such, these environments often create problematic exposure points that affect all areas of the business and lead to unnecessary administrative overhead.

Together, these factors illustrate how absolutely critical it is that IT maintain resource availability across the enterprise and adopt the BC and DR technology capable of protecting the business against all disruptions — whether they are internal or external, accidental or intentional or occur at a production or remote site.

The CA XOssoft Product Family provides the integrated, high-performance capabilities you need to address your organization's most pressing BC and DR challenges. Through real-time data replication of the data residing on Microsoft Windows, UNIX and Linux platforms, and the automated testing of DR resources, these products ensure near instantaneous failover and restoration of critical IT resources after a loss or disruption.

## Core Components of the CA XOssoft Product Family

The CA XOssoft Product Family helps you keep your mission-critical IT resources available and reliable, promoting productivity while protecting the assets that support and enable your business from the broadest array of threats. These products help your organization realize DR and BC goals through:

- Real-time replication
- True continuous data protection (CDP)
- Application monitoring
- Application failover and failback
- Automated DR testing
- Backup integration offering automated Microsoft Virtual SourceSafe (VSS) snapshot management

The XOssoft Product Family leverages these qualities into three distinct products that combine to provide you with the capabilities you need to ensure ongoing availability and recoverability:

- CA XOssoft™ Replication
- CA XOssoft™ High Availability
- CA XOssoft™ Content Distribution

### CA XOSOFT REPLICATION

CA XOssoft Replication helps ensure that your business-critical systems, applications and data are readily available — even in the face of unplanned outages and natural disasters. To this end, CA XOssoft Replication delivers continuous, wide area network (WAN)-optimized and application-aware replication that supports Windows, Linux and UNIX platforms. The product's data rewind feature provides integrated CDP that complements backup and restore processes with near-instantaneous recovery — helping you meet even your most aggressive recovery point objectives (RPOs) and recovery time objectives (RTOs) — across all data assets.

In addition, CA XOssoft Replication provides a comprehensive migration tool that helps you stream data from a testing environment to live production servers and stay in sync until you are ready to cut over to the new system — whether the move is from physical to physical (P2P), physical to virtual (P2V) or virtual to virtual (V2V).

### CA XOSOFT HIGH AVAILABILITY

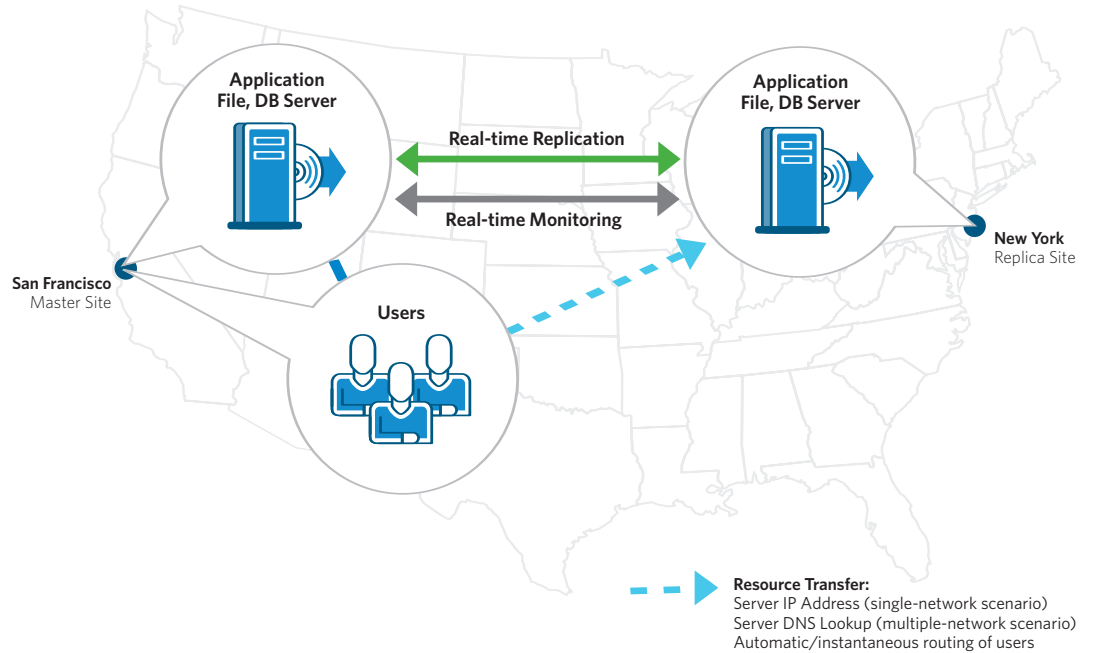
The flagship product in the CA XOssoft family, CA XOssoft High Availability extends the capabilities of CA XOssoft Replication with additional real-time monitoring and automated failover and failback functionality. In addition to the features of CA XOssoft Replication, this product monitors the health of protected applications, and automatically notifies the appropriate IT administrator when a problem is detected.

Depending on the severity of the situation and the type of system involved, this alert triggers an automatic failover or allows the administrator to perform “push-button,” single-click failover or failback. The software also moves shared files as appropriate, helping you ensure that users are able to access authorized applications and data without any noticeable drop in productivity.

FIGURE A

CA XOssoft High Availability replicates data across the WAN and monitors application availability in real time.

CA XOSOFT HIGH AVAILABILITY AT WORK



CA XOSOFT CONTENT DISTRIBUTION

CA XOssoft Content Distribution allows you to collect information from disparate sources, consolidate it at a centralized location and transmit it across your organization. The product supports a wide range of data distribution needs, including gathering information from branch offices, consolidating transactions for processing into a central database and aggregating distributed site data for centralized backup and archiving.

CA XOssoft Content Distribution is an ideal means of distributing such reference content as price lists, policies, sales materials, manuals and news to internal users across a distributed enterprise. This powerful product eliminates the problem of out-of-sync field and branch office personnel by maintaining content in a central repository, and delivering changes to your organization's target servers on a scheduled basis.

Taking Business Continuity to the Next Level

Included as standard features in both CA XOssoft Replication and CA XOssoft High Availability, CA XOssoft™ Assured Recovery® and CA XOssoft™ Data Rewind CDP technology significantly extend the capabilities of the product family, allowing you to implement BC and DR measures that further ensure data, application and system availability and reliability.

### CA XOSOFT ASSURED RECOVERY SIMPLIFIES DR TESTING

In the IT environment, change is inevitable — hardware components need to be replaced, software requires upgrades and people come and go. Because each of these events can impact the performance or stability of your DR systems, it is critical that recovery testing is conducted on a regular basis.

CA XOsoft Assured Recovery enables you to perform live, comprehensive tests — both manually and automatically scheduled — of your standby DR servers without disrupting your production environment or impacting live assets.

What's more, this feature enhances offsite protection through the use of simple, quick Microsoft VSS snapshots, helping your organization recover deleted files or retrieve older versions of databases. Snapshots can be stored as a folder or drive letter, providing easy access through both graphical and command-line interfaces. And, you can establish snapshot management quotas that help you align disk space consumption with recovery needs.

Finally, CA XOsoft Assured Recovery includes support for Microsoft Exchange Server, SQL Server, SharePoint Server, IIS web servers and Oracle database servers. Additional support for other applications or advanced customization can be achieved through the generation of simple scripts or batch files.

### CA XOSOFT DATA REWIND CDP TECHNOLOGY FILLS RECOVERY GAPS

Real-time data replication technology is a core feature of many DR solutions, and in some cases, it serves as an organization's first level of protection. However, this method has one distinct weakness — if data is damaged on the source server, it will most likely be corrupt on a standby server. And because most replication engines cannot determine when a specific piece of information is unusable, this creates potentially crippling gaps in your DR protection.

CA XOsoft Rewind CDP technology fills in the gaps created by corrupt data by continuously capturing and storing all the information that has been overwritten on target or standby servers. This allows you to create the most granular recovery measure possible — one that turns back the clock to seconds before a disruption — reducing the amount of lost or damaged information.

And, because CA XOsoft Data Rewind CDP technology integrates with CA XOsoft Replication and CA XOsoft High Availability, it includes native application awareness that helps your administrators determine to what point data should return.

What's more, since this feature augments backup or snapshot technologies, it minimizes disk space consumption and requires that you save only the changes between backups and snapshots.

### Key Capabilities of the CA XOsoft Product Family

All pieces of the CA XOsoft Product Family contain a host of capabilities that work in concert to deliver robust BC and DR measures. The key capabilities of the product family include:

- Multilayered data and application availability
- Ease of use and deployment
- Transparent and automated operations
- Cost-effective processes

### MULTILAYERED DATA AND APPLICATION AVAILABILITY

The CA XOSoft Product Family provides strong, multilayered availability for both data and applications through real-time asynchronous replication that promotes fast and efficient data transfer between production and recovery servers. In addition, automated, application-aware DR testing utilizes easily accessible VSS snapshots, which enable quick file recovery options. Additional data application and availability features include:

- Operating system protection through System State Protection and Registry Synchronization
- Generic integration points for offsite or consolidated backups
- Embedded rewind CDP technology that fills the protection gaps left by most replication systems
- Reboot or cluster node triggers that change from within the management system, graphical user interface (GUI) or command line
- Strict write-order integrity that ensures consistent replicated data
- User access to deleted Microsoft Exchange Server items — including attachments, notes and tasks — without administrative involvement
- Full text searching and indexing

### EASE OF USE AND DEPLOYMENT

Support for P2P, P2V and V2V replication allows the CA XOSoft Product Family to cater to a wide range of BC and data migration needs. Integrated support for both VMware ESX and Microsoft Hyper-V technology helps you improve the reliability and availability of your virtualized assets. Moreover, awareness for such critical applications as Microsoft SharePoint Server, SQL Server and Exchange Server, Microsoft IIS Web services and Blackberry Enterprise Server automate configuration, testing, monitoring and failover/failback. Additional features include:

- A centralized and scalable web-based management system that covers all product family functionality, without requiring a thick “management client” installation
- A central reporting center featuring a customizable web-based GUI, flexible server grouping capabilities and dashboard and detail monitoring views
- Intuitive wizards that shrink learning curves and remove the need to memorize large manuals
- A powerful command-line and scripting interface, with optional scripting hooks that give power users the ability to customize every aspect of the product
- Assessment scenarios that track network bandwidth consumption prior to running live data replication
- Simple reports that improve pre-deployment planning
- Installations, updates and upgrades that require no server rebooting — even on live data
- Wizard-guided, embedded remote installation capabilities that help you update or implement any number of servers in a single step with no re-boot required
- A single installation, GUI and command line for the entire product family

- A highly available control service that ensures the continuous management and reporting of your XOssoft environment even if the control service server itself is disrupted
- Support for English, French, German, Italian, Spanish, Brazilian Portuguese, simplified and traditional Chinese and Japanese languages

#### TRANSPARENT AND AUTOMATED OPERATIONS

The CA XOssoft Product Family features continuous, byte-level, asynchronous replication of most data types — including open files and access control lists (ACLs) — with optimal compression and minimal human intervention. In addition, the CA XOssoft Product Family includes such core automation functionality as:

- Resilient network protocols that recover quickly from connection losses and optimize WAN performance through integrated tuning that mitigates the performance issues caused by latency
- A native 64-bit Windows replication engine that allows your IT personnel to replicate data from an x86 server or x64 server to an x64 server, increasing flexibility and allowing you to leverage the latest server technology
- Granular, scenario-based bandwidth tuning that helps you quickly define limits and parameters, minimizing the risks and costs associated with network congestion

#### COST-EFFECTIVE PROCESSES

As fully hardware-independent products, the CA XOssoft Product Family provides replication and failover from any hardware platform or Microsoft cluster to any physical or virtual platform — without forcing you to implement third-party clustering software. Additional features that drive cost efficiencies include:

- Centralized protection from the broadest range of device and application failures helps you quickly achieve a return on your technology investments and ensure lower ownership costs
- A flexible, scalable architecture that allows your deployment to grow as business needs dictate
- Dynamic bandwidth throttling that helps you track, monitor and manage consumption of network resources
- Compatibility with Microsoft and VMware virtualization technologies that promotes server consolidation, helping your organization reduce expenditures related to physical hardware, rack space, cooling, power, license fees and more

#### What's New in CA XOssoft r12.5

- CA XOssoft Assured Recovery integration
- CA XOssoft Control Service high availability
- Microsoft SharePoint Server high availability support
- VMware vCenter high availability support
- Microsoft Hyper-V high availability support
- System state protection

- Registry synchronization
- UNIX/Linux replication support
- Native 64-bit engine
- Bandwidth tuning
- Localization
- CDP reporting
- Content distribution

## Robust, Comprehensive BC and DR Measures

Leveraging the CA XOssoft Product Family provides your organization with a strong, fully featured platform from which to build, maintain and test a comprehensive BC and DR solution. To this end, the CA XOssoft Product Family delivers multilayered protection that ensures the availability and reliability of the critical applications, databases and files on which your business depends.

### FIGURE A

The CA XOssoft Product Family provides a full suite of products that help you strengthen your organization's business continuity and disaster recovery measures.

### FEATURES AND BENEFITS OF THE CA XOSOFT PRODUCT FAMILY

| PRODUCT                         | FUNCTION   | BENEFITS   |
|---------------------------------|--|--|
| CA XOssoft Replication          | Provides BC and DR capabilities through real-time data replication, manual failover and built-in DR testing    | <ul style="list-style-type: none"> <li>• Helps you meet aggressive RTOs and RPOs</li> <li>• Streamlines and secures P2P, P2V and V2V data migrations</li> </ul>  |
| CA XOssoft High Availability    | Enables BC and DR with real-time data replication, manual and fully automated failover and built-in DR testing | <ul style="list-style-type: none"> <li>• Helps you meet aggressive RTOs and RPOs</li> <li>• Streamlines and secures P2P, P2V and V2V data migrations</li> <li>• Provides users with uninterrupted data access</li> </ul> |
| CA XOssoft Content Distribution | Centralizes information from disparate, distributed sources and transmits it across the enterprise             | <ul style="list-style-type: none"> <li>• Streamlines content management processes</li> <li>• Helps improve IT productivity and reduce redundant tasks</li> </ul>   |

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## The CA Advantage

The CA XOssoft Product Family provides your organization with industry-leading BC and DR capabilities you can leverage to protect your most business-critical assets — under even the harshest conditions and across all geographic locations.

What's more, the CA XOssoft Product Family is designed to easily integrate with other CA data management and protection tools — as well as those provided by third-party vendors. Specifically, the CA XOssoft Product Family and CA ARCserve® Backup solutions work in conjunction to form the CA Recovery Management framework, which provides a comprehensive suite of data protection capabilities — from traditional backups to high application availability and DR.

### Part of the Enterprise IT Management (EITM) Vision

As a key component of the CA Recovery Management framework, the CA XOssoft Product Family delivers the functionality that helps you maximize the performance, efficiency and effectiveness of your core recovery measures. In this way, the CA XOssoft Product Family tightly integrates the control and management of operations, storage, security and services management. As such, it represents an integral component of CA's EITM philosophy, which helps the enterprise unify, simplify and secure IT to better manage risk, costs and service — and ensure that DR and BC operations closely align with business goals.

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## Next Steps

You know how critical your IT resources are to your business and how important it is to keep them available and reliable. The CA XOssoft Product Family offers powerful, flexible and integrated replication, failover, data protection and testing features that help you develop the measures needed to properly safeguard these mission-critical systems and applications. Gaining such protection improves business agility and productivity for your organization and its customers, employees, stakeholders and partners.

To learn how the CA XOssoft Product Family can help your organization meet its BC and DR needs, take CA XOssoft Replication and CA XOssoft High Availability for a free test drive at [ca.com/trials](https://ca.com/trials). For ordering information, contact your local reseller or visit [ca.com/contact/rmdm](https://ca.com/contact/rmdm).

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For more information about how the CA XOssoft Product Family can help improve your organization's disaster recovery and business continuity measures, visit [ca.com/xossoft](https://ca.com/xossoft).

CA (NYSE: CA), one of the world's leading independent, enterprise management software companies, unifies and simplifies complex information technology (IT) management across the enterprise for greater business results. With our Enterprise IT Management vision, solutions and expertise, we help customers effectively govern, manage and secure IT.

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Learn more about how CA can help you transform your business at [ca.com](https://www.ca.com)

