



Enterprise Rewinder™ Product Suite

Knowledge is power, they say, and the usefulness of your knowledge is often determined by the availability of the data and applications in which it is embedded. The fear of server and application outages, which severely impact productivity and profitability, has driven many enterprises to supplement standard backup methodologies with innovative data protection point solutions.

For leading enterprises, this simply isn't good enough. What they need is a centralized, enterprise-level data protection solution that can be fully integrated with their existing infrastructure to protect a wide range of business applications at the data center level. They need a solution that can offer a consistently high level of availability and allow an enterprise of any size to *just keep working*.

The New Standard for Continuous Enterprise Data Protection

XOsoft, a leading provider of continuous application availability solutions, introduces Enterprise Rewinder™, a comprehensive suite of data protection solutions that keep enterprises working. Enterprise Rewinder may easily be integrated with data centers of any type. It provides the highest possible availability, tailored specifically for such industry standard application and database servers as Microsoft Exchange, Microsoft SQL and Oracle Database, under a single, centralized GUI.

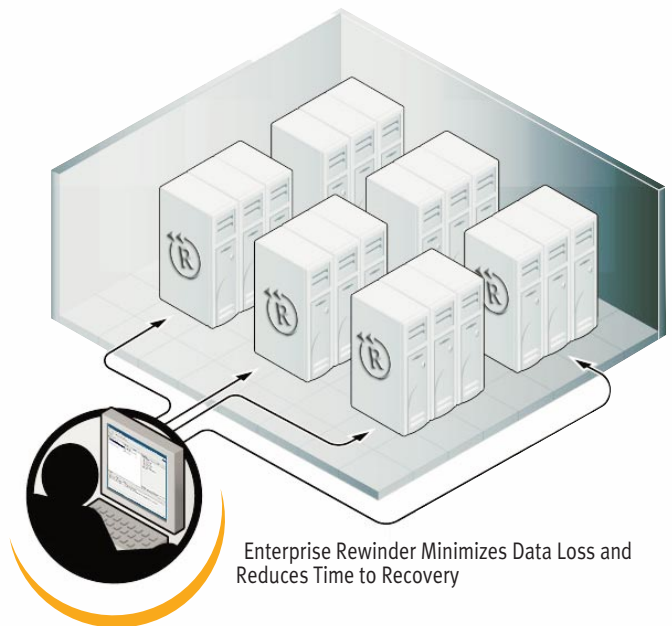
Unlike competing offerings, it works in conjunction with leading industry-standard backup and snapshot-based solutions to enable the fastest and most comprehensive application recovery. Continuous database monitoring alerts IT administrators to major corruption or failure events, and automated or "flip of a switch" data recovery makes it simpler than ever before to ensure seamless application availability by instantaneously rewinding affected application resources to any previous consistent state.

Enterprise Rewinder at Work

Application-aware Data Rewinder clients for Microsoft Exchange, Microsoft SQL, Oracle Database and any other type application servers are centrally controlled by the Enterprise Rewinder Management GUI. They continuously capture application and database-specific writes and updates, such as checkpoints, log file rotations and errors, and store rewind logs of I/O-related events that result in changes to data or to file and directory attributes (i.e. write, remove, rename, change ownership, etc.). Journaling may be configured to cover a specified amount of time, to reach a predetermined maximum journal file size or to occur between automatically detected backup stop and start events. All of this is performed transparently and in real time, at both server and application levels.

Reducing Time to Recovery

Data center administrators may configure a large number of highly granular data protection and rewind scenarios, several of which may even be applied to a single application server, allowing, for example, Exchange server data rewind to be limited to a particular storage group. Should data corruption occur, the centralized management GUI may be used to review all past I/O and application-specific events on a time scale, to quickly rewind data to any previous significant event (such as an application checkpoint) and to start databases. Should a previous checkpoint also turn out to be corrupted (i.e. data corruption occurred before this checkpoint was stored), data may just as easily be wound back even further, to a previous database event (such as the rotation of a log file), until complete application integrity is regained. To minimize application downtime even further, administrators may optionally configure data rewind to occur automatically, as soon as a corruption is detected.



XOsoft™
JUST KEEP WORKING

About XOssoft

XOssoft's continuous application availability solutions keep enterprises working. The company's patented business continuity, disaster recovery and continuous data protection software platforms significantly lower the risks of decreased productivity and lost revenue by minimizing both planned and unplanned critical application downtime. Many of the world's largest corporations and government agencies have chosen XOssoft to ensure uninterrupted access to their most valuable information assets.



Enterprise-class Continuous Data Protection

- Centralized application recovery – configure, manage and initiate Data Rewinder client-based recovery of any combination of Microsoft Exchange, SQL, Oracle Database or any other type server through a single GUI.
- Complements data center backup infrastructure – easily integrates with industry standard backup or snapshot-based solutions. Monitors backup processes, captures backup start and stop events, and generates appropriate internal notifications and script-based actions.
- Application and database-aware – Data Rewinder clients are specifically tailored to protect Microsoft Exchange, Microsoft SQL and Oracle Database servers. They automatically record significant application-specific events such as input/output patterns, checkpoints, log file rotations and others, all of which may be referenced when rewinding corrupted databases to a consistent state.

Instantaneous Application Recovery

- Recover application servers of any type and size – rewind corrupted single-Megabyte or multi-Terabyte servers to a consistent state instantaneously.
- Automated data rewind and recovery minimize data loss and application downtime.
- Failsafe server maintenance – bookmarks allow IT administrators to quickly and easily back out of faulty software installations and configuration changes.

Cost Effective

- Requires no new IT investments – integrates with standard backup solutions and leverages IT infrastructure by making full use of existing hardware and software.
- Transparent installation and operation – requires neither system reboot nor application shutdown. Users may simply keep working, even as change and update events are being journaled.

Supported Software Platforms

- Application servers - Microsoft Exchange 5.5/2000/2003, Microsoft SQL 7/2000, Oracle Database 8i/9i and file servers.
- Backup solutions – Veritas Backup Exec.
- Operating systems – Windows NT 4.0, Windows 2000 and Windows Server 2003.

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