

TimeScale[™] 100, 200, and 300 Series

Flexible, cost-effective solutions
for data protection and recovery



Effective Data Protection

is essential. A protracted interruption in your organization's ability to access data can lead to the loss of customers and revenue, a gap in services provided to citizens, a drop in share price, or possible noncompliance sanctions for failing to protect and/or provide information promptly when required. The revenue loss for some businesses is over half a million dollars an hour. Healthcare organizations run an especially high risk: losing access to data can lead to improper patient treatment, which can result in illness or injury—even death.

The Solution

TimeScale 100, 200, & 300

Xiotech Corporation's TimeScale 100, 200, and 300 Series systems provide easy-to-use, real-time continuous data protection (CDP) for recovery to any point in time and asynchronous replication to protect you from geographic site disasters. These flexible, scalable, heterogeneous solutions enable you to proactively protect and, more importantly, recover your data.

TimeScale systems leverage your existing infrastructure, bandwidth, and skill sets to attain unprecedented cost savings—without sacrificing performance or features. The TimeScale Replication Appliance replicates data across your Internet Protocol (IP) network infrastructure, enables centralized management, and offloads storage and server CPU cycles from managing replication processing, compression, and encryption.

Solution Highlights

Continuous Data Protection

TimeScale 200 and 300 Series systems provide CDP capabilities for Windows 2003 environments, enabling any-point-in-time data recovery. You do not need to predefine recovery points as with backup. All data operations are retained for the period of time that you specify. You then can recover data—single files, applications, or entire volumes—from any point during this period.

You also can define **application-consistent** points in time for instantaneous recovery of your most critical applications. For instance, you can set an hourly replication schedule for Microsoft Exchange. If the primary site experiences a problem, you can quickly recover the clean version of Exchange, with data no more than an hour old. TimeScale 200 and 300 Series systems leverage Microsoft Volume Shadow Copy Service (VSS) to deliver unmatched protection for Microsoft Exchange and SQL and enable the integration of applications that do not support VSS. Furthermore, you can create on-demand application-consistent points that mark significant business events, such as end of quarter reporting.

Simplified Management & Recovery

With TimeScale 100, 200, and 300 Series systems, you manage volumes and files centrally from an intuitive Web-based user interface. You can easily access replicated volumes and files, and extensive scheduling options simplify ongoing management. You can even set policies so that threshold violations—such as exceeding recovery point objectives (RPOs)—elicit an alert via SNMP or email.

TimeScale 100, 200, and 300 Series systems also make data recovery tasks simple and complete. While this is what you would expect from a data protection product, it is not what traditional methods such as backup or incremental snapshots provide. TimeScale systems offer recovery options based on each system's method of data protection:

TimeScale Product	Data Protection Method	Recovery Options
TimeScale 100 Series	Asynchronous replication	Crash-consistent volume recovery and individual file or directory-level restores
TimeScale 200 Series	CDP	Any-point-in-time, application-consistent, and user-defined points-in-time volume and file recovery
TimeScale 300 Series	Asynchronous replication + CDP	Asynchronous and CDP recovery

Architecture Flexibility

TimeScale solutions are designed for flexible deployment and scalability. You can implement what you need today and scale up and out as your business needs change. Here are just a few examples:

- **Scalable Data Protection:** With one TimeScale Replication Appliance at your local site, you can replicate data to multiple disaster recovery locations. Add a TimeScale Replication Appliance at a secondary site, and both locations can serve as active data centers with bidirectional replication for additional protection.
- **Two-Tier Recovery:** With TimeScale 300, you can perform both CDP to a local server and asynchronous replication to a remote server, enabling rapid recovery from a local outage while still being protected from disaster.
- **Branch Office Consolidation:** Deploy a TimeScale Replication Appliance at each remote site, and easily replicate data from all the remote sites to a centralized location. You also can add TimeScale Replication Appliances to enhance load balancing, compression, and encryption to meet reduced RPO requirements.

Bandwidth Optimization

TimeScale 100, 200, and 300 Series systems include capabilities for making the most of available bandwidth. The systems monitor replication processes, providing statistics on the network and compression to help you set RPOs and service level agreements. Additional features include scheduled bandwidth throttling of shared wide area network (WAN) lines and quality of service rules for high-priority hosts.

Support for Heterogeneous Server Environments

TimeScale 100 Series systems support popular enterprise operating system and application environments with volume- and file-level replication agents. These lightweight, nondisruptive host agents work with the TimeScale Replication Appliance to simultaneously support replication on multiple operating systems, while offloading CPU-intensive tasks such as compression and encryption (with the volume agent)—resulting in more efficient transport.

Contact your local Xiotech representative or authorized reseller today to learn how TimeScale 100, 200, and 300 Series systems can deliver simplified, flexible protection and recovery for your critical data and applications.

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