

# TimeScale<sup>®</sup> GeoRep Software

Affordable remote replication and recovery

For Xiotech's Emprise<sup>™</sup> 7000 and Magnitude 3D<sup>®</sup>  
storage systems



## Business Continuity

planning, including protection of your critical data and applications, is vital to the success of your organization. Effective, off-site data replication will ensure protection of these valuable resources and can help you get back to business quickly following a local outage or disaster.

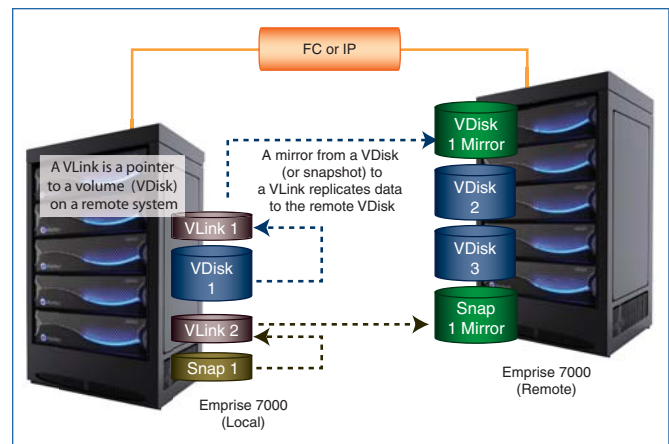
## The Solution

### TimeScale GeoRep Software

TimeScale GeoRep software enables you to copy, swap, and synchronously or asynchronously mirror storage volumes (virtual disks or VDisks) between Emprise 7000 and Magnitude 3D storage systems. Replicating your data off site with TimeScale GeoRep ensures it will be protected from loss and can be recovered quickly if needed.

TimeScale GeoRep takes advantage of Xiotech's "virtual links" (VLinks), which direct I/Os from one Emprise 7000 or Magnitude 3D system to any other in your network. With VLinks you can efficiently replicate your data off site, as well as utilize extra capacity or access data on other systems.

- **Easy Off-Site Data Replication:** With both synchronous and asynchronous replication options, you can choose the level of data protection and availability that best meets your needs.
- **Virtually Limitless Capacity:** Servers can easily access data or capacity on other Emprise 7000 or Magnitude 3D systems. Your servers will not even know the difference because all VDisks—whether remote or local—appear as locally attached LUNs.



*TimeScale GeoRep software creates point-in-time copies and synchronous or asynchronous mirrors of storage volumes from one Magnitude 3D or Emprise 7000 system to another—with fast, easy recovery if needed.*

- **Efficient, Centralized Management:** TimeScale GeoRep makes the most of your time, enabling you to manage all your replication activities from ICON Manager—the same interface you use to manage your storage.

## The Result

TimeScale GeoRep is affordable, easy to deploy, and provides data reliability features not found in other mid-range storage systems. TimeScale GeoRep helps ensure your data is protected and can be recovered quickly—and provides an efficient method of growing capacity beyond a single system. All this functionality, along with easy management, will be sure to provide a strong return on investment for your organization.

# TimeScale GeoRep Features & Benefits

Feature	Benefit
Synchronous Replication	Protects data in real time against site disasters or data loss.
Asynchronous Replication	Protects data across geographic areas, without affecting application performance.
VDisk Resynchronization	Reduces the time required to resynchronize VDIs after pausing a synchronous or asynchronous data mirror.
Full Image Point-in-Time Copy	Creates VDisk copies in real time with no application disruption—for disaster recovery or other purposes, such as safely testing new applications.
Copy/Swap	Facilitates temporary or permanent data migration. Following a point-in-time copy, server access is automatically directed to the target VDisk. The original source VDisk can be deleted or the source storage system can be taken offline.
Snapshot (Sparse Image Replication)	Reduces capacity required for backup data.
Reverse Mirror	Enables efficient data recovery by replicating data <i>from the target to the source</i> storage system.
Write-Order Fidelity Across VDIs	Provides predictable recovery for transactional applications.
Virtual Linking	Allows for rapid reassignment of replicas to recover physical and virtual servers.
Unified Management	Reduces time and effort by centralizing management of both data replication and storage processes.
ICON Services	Enables automation of replication the recovery processes, using an industry-standard Web Services platform.
Data Compression	Reduces network costs and enables you to move more data.
Fibre Channel and Internet Protocol	Offers communication methods to meet the needs of all your servers

# TimeScale GeoRep Specifications

Description	Asynchronous Replication	Synchronous Replication
Number of VDIs that Can Be Replicated (Max)	256	256
Storage Support	Emprise 7000 Magnitude 3D 4000, 3000	Emprise 7000 Magnitude 3D 4000, 3000, 1000 Magnitude
Software Requirements	TimeScale Copy	TimeScale Copy
Network Bandwidth Required (Max)	45 Mbit T3	45 Mbit T3
Max Replication Distance	Unlimited	Varies according to configuration
OS Support	Microsoft® Windows®, Novell® NetWare®, VMware® ESX Server, SUSE® Linux®, Red Hat® Linux, HP-UX, IBM® AIX®, Mac® OS, Sun™ Solaris™	



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