



# TimeScale<sup>®</sup> GeoRAID<sup>™</sup> Software

High availability without complexity

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



## Nonstop availability

of your data and applications is critical; however, your organization may not have the resources typically needed to ensure such availability. Traditionally, you would need to purchase, implement, and manage two fully redundant storage and server environments—with complex data mirroring and failover between the systems.

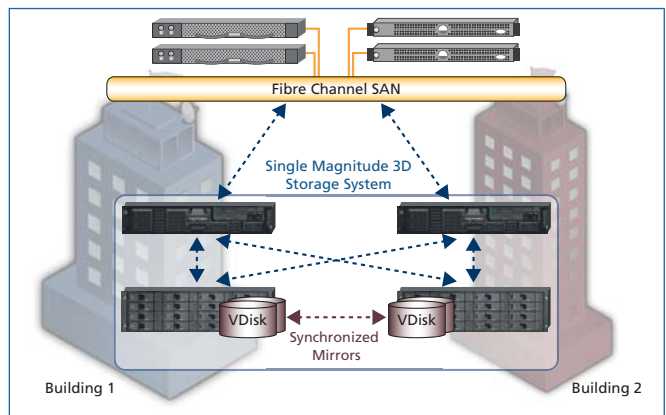
Xiotech's clustered storage systems with TimeScale GeoRAID software deliver nonstop data and application availability that is easier and less costly to manage.

## The Solution

### TimeScale GeoRAID Software

Xiotech's Emprise 7000 and Magnitude 3D systems are composed of clustered, virtualized components that you can distribute as needed—across your data center or, with Xiotech's Distributed Cluster Interconnect (DCI), across town. If an outage occurs, the system provides automatic, transparent failover both within components and across the cluster.

But what about the storage volume (virtual disk)? You could mirror each volume from one location to the other, but that would require some added configuration plus management of two separate volumes. TimeScale GeoRAID software eliminates this requirement. It creates each virtual disk in two physical locations within the storage cluster. If one location suffers an outage (e.g., due to drive bay or power failure), TimeScale GeoRAID automatically redirects access to the surviving virtual disk. You maintain nonstop storage availability, yet have only a single volume to manage.



*TimeScale GeoRAID software creates storage volumes across two physical locations within a single clustered storage system (Magnitude 3D 4000 in this example)—and provides automatic volume failover in case of a local site outage.*

With Xiotech's systems, you can quickly and easily reassign virtual disks to replacement servers. However, you can eliminate all manual intervention by also implementing server clustering or high-availability server virtualization. If there is an interruption at one of the locations, TimeScale GeoRAID and the server clustering or virtualization software will independently sense the outage and automatically fail both the virtual disks and servers to available resources.

## The Result

Xiotech's clustered storage systems with TimeScale GeoRAID software deliver nonstop availability for your critical applications and data:

- Uninterrupted storage access during local outage
- No added complexity—one volume to manage
- Integration with server clustering and virtualization technology for maximum availability