

## PRODUCT OVERVIEW

# GEOCLUSTER®

## Reduce the total cost of Failover Clustering.

Windows® Server Failover Clustering provides exceptional support for critical Windows applications, but a single point of failure and geographic restrictions can leave your business vulnerable.

GeoCluster® from Double-Take® Software lets you implement Windows Server Failover Clustering without shared storage or geographic restrictions - eliminating the single point of failure, and giving you the freedom to locate cluster nodes anywhere. A software approach encouraged by Microsoft®, GeoCluster provides the technology and flexibility you need to ensure maximum availability for the lowest possible cost.

### Eliminate the single point of failure.

Windows Server Failover Clustering requires that clustered disk resources be maintained on a single, shared disk subsystem; if that subsystem fails, your entire cluster goes down. GeoCluster removes this single point of failure by maintaining a separate copy of the data on each member of the cluster - and uses patented, real-time, byte-level replication to update each copy as data changes. If an active node, application, or storage device goes down, Windows Server Failover Clustering automatically and seamlessly fails over to another node.

### Use existing storage hardware.

With GeoCluster, there's no need to purchase Windows Server Failover Clustering -certified storage hardware to set up your cluster - you can use the storage hardware you already own.

### Create long-distance clusters for maximum protection against physical disaster.

Because each cluster node must be connected to a shared storage device, SCSI and fiber channel restrictions limit the distance between nodes and the protection you can implement against physical disasters. By removing the

shared-storage requirement, GeoCluster lets you connect as many as 16 nodes over long distances.

### Count on full support for applications including Windows Server 2003 and 2008.

GeoCluster sits on top of Windows Server Failover Clustering and supports all of its cluster-aware applications; Windows Server Failover Clustering still handles application monitoring and failover. GeoCluster integrates with the Windows Server Failover Clustering administrative interface and is one of the only high availability solutions to take advantage of Windows Server's quorum capabilities for split-site cluster nodes.

### Built on Double-Take replication technology

GeoCluster is driven by award-winning Double-Take® - the same replication technology implemented by over half the Fortune 500 companies.

### About Double-Take® Software

Headquartered in Southborough, Massachusetts, Double-Take® Software (Nasdaq: DBTK) is a leading provider of affordable software for recoverability, including continuous data replication, application availability and system state protection. Double-Take Software products and services enable customers to protect and recover business-critical data and applications such as Microsoft Exchange, SQL, and SharePoint in both physical and virtual environments. With its unparalleled partner programs, technical support, and professional services, Double-Take Software is the solution of choice for more than ten thousand customers worldwide, from SMEs to the Fortune 500. Information about Double-Take Software's products and services can be found at [www.doubletake.com](http://www.doubletake.com).

# GeoCluster® — Failover Clustering without limitations

**No shared storage; no single point of failure.** Maintain a separate, continuously updated copy of clustered data resources on each cluster member for seamless recovery from any node, application or storage failure.

**Hardware independence.** With GeoCluster, you're not limited to Windows Server Failover Clustering -certified storage - you can use any storage hardware, regardless of vendor, model, or interconnect.

**Long-distance clustering over any standard network protocol.** Locate cluster nodes as far away as you like over standard IP connections for maximum protection against onsite physical disasters.

**Total application support.** GeoCluster sits directly on top of Windows Server Failover Clustering and transparently supports any failover clustering-aware applications including Hyper-V Quick Migration on Windows Server 2008.

**Microsoft VSS support.** GeoCluster includes integration with Microsoft Volume Shadow Copy and automatically creates disk-based snapshots of clustered data to ensure that Windows Server Failover Clustering always has a usable copy of shared data.

**Full Windows Server 2003 and 2008 support.** Connect a maximum of eight (8) nodes over any distance and exploit the majority node set feature for tighter Windows integration and greater application availability.

**64-bit support.** GeoCluster supports both 32-bit and 64-bit operating systems running on 32-bit or 64-bit hardware.

**Continuous byte-level replication.** GeoCluster uses the industry-standard Double-Take replication engine to continuously monitor byte-level changes to all clustered application data - and to replicate only those changes to other cluster members.

**Seamlessly integrated UI.** GeoCluster Configuration Manager integrates with the Windows Server Failover Clustering Administrator for one-top management.

**One-to-many replication.** Each cluster member can replicate data changes to any or all nodes on the cluster, and allow failover to any node.

**Open-file mirroring and replication.** GeoCluster processes and fully replicates open files without taking them offline; applications remain online and users stay productive.

**Disk queuing.** Never lose a data change - GeoCluster replicates data to disk during heavy network usage times, then transmits to the target when bandwidth allows.

**Shared data verification.** Verify and report that targets are synchronized with sources. Also, GeoCluster guards against data corruption by keeping clusters from failing over to a node that has suspect data. Users have the option to verify data on the target before putting it online, revert to the last known good snapshot of the shared data, or force the resource offline.

**SNMP counters and traps.** Forward replication statistics and events via SNMP to your enterprise management tools for simplified management.

**Full command-line control.** Control any GUI function from the command line, manually or via scripting.

**Full reporting and statistics.** Generate reports on any GeoCluster server from a single interface.

**GeoCluster Plus.** GeoCluster combined with Double-Take provides an extra measure of protection. GeoCluster Plus combines GeoCluster with a full version of Double-Take, enabling you to replicate clustered data to additional, non-clustered targets at remote facilities.

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