

## PRODUCT OVERVIEW

# GEOCLUSTER®

## Reduce total cost of MSCS ownership.

A popular high-availability solution, Microsoft® Cluster Service (MSCS) provides exceptional support for your mission-critical Windows® applications. But its shared disk storage—a single point of failure—and geographic restrictions leave your business vulnerable to equipment failures, power outages, and natural disasters.

Double-Take® Software GeoCluster® lets you implement MSCS clusters without shared storage or geographic restrictions – eliminating the single point of failure, and giving you the freedom to locate cluster nodes wherever you want. 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.

MSCS requires that you maintain clustered disk resources 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 the data changes. If an active node, application, or storage device goes down, MSCS automatically and seamlessly fails over to another node.

### Leverage existing storage hardware.

With GeoCluster, there's no need to purchase additional, MSCS-certified storage hardware to set up your cluster – you can use the hardware you already own.

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

Because each MSCS 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 blackouts, earthquakes or other

disasters. By removing the shared-storage requirement, GeoCluster lets you connect as many as eight nodes – the maximum currently allowed by Windows® – over long distances. With GeoCluster you maintain your level of high availability while also achieving the level of disaster protection – and the peace of mind – your business requires.

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

GeoCluster sits on top of MSCS and supports all MSCS cluster-aware applications because MSCS still handles application monitoring and failover. It integrates with the MSCS administrative UI for management ease and is one of the only High Availability solutions to take advantage of Windows Server 2003's majority Node Set feature for even tighter integration with Windows and MSCS.

### Built on the Double-Take patented replication technology – the best in the business.

GeoCluster is driven by our award-winning Double-Take® replication engine – the same replication technology implemented by a large percentage of Fortune 500 companies and chosen by Dell® and Hewlett-Packard® for their own customers' business continuity needs.

## GeoCluster® — MSCS 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 MSCS-certified storage - you can use any storage hardware you own or choose to purchase, 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 connection (LAN, WAN, VPN or NAT) for maximum protection against onsite physical disasters.

**Total application support.** GeoCluster sits directly on top of MSCS and transparently supports any MSCS-aware applications.

**Full Windows Server 2003 support.** Connect a maximum of eight (8) nodes over any distance and exploit the new Majority Node Set feature for tighter Windows integration and greater application availability.

**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 within the MSCS Cluster Administrator UI for simple, one stop 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 can process and fully replicate open files without taking them offline; applications remain online and active and users stay productive.

**Flow control (unlimited 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.

Verification. Verify and report that targets are synchronized with sources.

**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 for 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 - for enhanced disaster recovery, backup and more.

### About Double-Take® Software

NSI Software, Inc. (NSI®) doing business as Double-Take® Software, provides the world's most relied upon solution for accessible and affordable data protection for Microsoft® Windows® applications. The Double-Take product is the standard in data replication, enabling customers to protect business-critical data that resides throughout their enterprise. With its partner programs and professional services, Double-Take delivers unparalleled data protection, centralized back-up, high availability, and recoverability. It's the solution of choice for thousands of customers, from SMEs to the Fortune 500 in the banking, finance, legal services, retail, manufacturing, government, education and healthcare markets. Double-Take is an integral part of their disaster recovery, business continuity and overall storage strategies. Double-Take Software is privately held and headquartered in Southborough, MA. For more information, please visit [www.doubletake.com](http://www.doubletake.com).



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