



# SIOS Protection Suite for Windows

## SAN and #SANLess Cluster Software

### Key Benefits

#### Complete System Health Monitoring

- Ensure the entire application environment - server, storage, operating system, network, database, and application are fully operational - not just online.

#### Flexible Recovery

- Recover a service or an application both locally or on another cluster node at either the same site or at another geographic location.

#### High Performance

- Fast, WAN optimized block level replication.
- Point-in-time access to run reports from a secondary node, for better performance, faster queries, and better resource utilization.

#### Protect Applications in the Cloud

- Automate data replication tasks using an intuitive data management GUI.

SIOS Protection Suite provides a tightly integrated combination of high availability failover clustering, continuous application monitoring, data replication, and configurable recovery policies to protect your business critical applications and data from downtime and disasters. It supports Windows Server 2008 R2, 2012 and 2012 R2 in physical, virtual, and cloud environments.

### Configuration flexibility.

SIOS Protection Suite gives you the flexibility to build clusters your way using your choice of industry standard hardware and a wide array of storage devices, including direct attached SCSI, iSCSI, Fibre Channel and more. SIOS Protection Suite delivers real-time, continuous replication and high availability within a LAN, and fast, efficient disaster recovery across a WAN for complete protection for any Windows application. You can use SIOS Protection Suite with an existing SAN or in a #SANLess configuration that uses only local storage. Standby servers can be either local or remote, supporting both local high availability and disaster recovery configurations.

### Protecting applications in a Cloud.

SIOS Protection Suite provides real-time replication and failover protection for deployment in the Amazon Web Services (AWS) EC2 cloud. It enables failover of application instances across availability zones to provide the protection you need to run business critical applications in the cloud without sacrificing performance, availability, or disaster recovery.

### In-depth monitoring for complete protection.

Unlike other solutions, SIOS Protection Suite monitors the health of the entire application environment, including the server, storage, operating system, network, database, and application software. It can recover a service or application locally or on another cluster node; at either the same site or at another geographic location.

### Efficient, automated failover.

When a problem is detected, SIOS Protection Suite automatically attempts to restart the application on the same server. If the restart is unsuccessful, it fails over the application operation to the standby server quickly and automatically to minimize downtime. The recovery process provides end-to-end support for server, applications and data, ensuring restoration of the entire application stack. Both single- and multi-site clustering is supported, providing high availability and disaster recovery capabilities in a single, scalable solution.



Try it in the Cloud for free!  
[www.clustersyourway.com](http://www.clustersyourway.com)

## Real-time data replication.

SIOS Protection Suite provides continuous synchronous or asynchronous replication from the primary server to one or more standby servers. Replication may be configured within a single site (LAN) or across multiple data centers (WAN). You may also create multiple real-time copies through one-to-many replication.

## SIOS #SANLess clusters.

Use SIOS Protection Suite for Windows to create a #SANLess cluster using local attached storage on both the primary and standby servers. SIOS Protection Suite uses real-time replication to synchronize data on local and standby nodes for failover and disaster protection without the cost and single point of failure risk of a SAN-based cluster.

## WAN optimized for performance.

SIOS Protection Suite clusters use block replication and integrated WAN acceleration to achieve optimal throughput, regardless of the speed or latency of the WAN link, without the need for hardware-based WAN accelerators. Nine levels of compression and bandwidth throttling deliver the perfect balance of WAN efficiency, host workload, and data throughput to meet your environment and data protection requirements.

The Target Snapshots feature ensures high performance is not impeded by reporting by giving you point-in-time access to run reports from a secondary node. This feature offloads workloads that can decrease the performance of the primary node, and gives you faster queries, better resource utilization and a more satisfying end user experience.

## Fast, easy DR testing.

SIOS Protection Suite for Windows allows administrators to easily switch applications to the disaster recovery site for disaster recovery testing and then switch it back to the primary site when testing is done. This feature lets you keep applications in service in the primary node while completing DR testing by simply unlocking the target data and bringing the application into service on the backup system. You can confirm the recoverability of your applications and data with minimal impact to your production network.

## Eliminate downtime for planned maintenance.

SIOS Protection Suite lets you switchover applications and services between systems manually to eliminate downtime associated with planned system maintenance.

## System requirements:

SIOS Protection Suite for Windows supports:

- OS: Windows Server 2008 R2, 2012 and 2012 R2
- Storage: Local Storage (HDD, SSD); Fibre Channel SAN; iSCSI

### About SIOS

SIOS delivers innovative software solutions that provide application availability and disaster protection for Windows and Linux environments.

### Clusters Your Way.™

An essential ingredient in any cluster solution, SIOS SAN and #SANLess clustering software provides the flexibility to build clusters your way to protect your choice of Windows or Linux environment – and any configuration (or combination) of physical, virtual and cloud (public, private, and hybrid) storage – without sacrificing performance or availability. SIOS provides unique #SANLess clustering software that eliminates both the cost and the single-point-of-failure risk of traditional SAN-based cluster solutions.

Founded in 1999, SIOS Technology, Corp., is headquartered in San Mateo, California, and has offices throughout the United States, United Kingdom, and Japan.

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