SAN and SANless Clusters for SAP
High Availability and Disaster Protection

Key Benefits

Provide Superior Protection

- SIOS Protection Suite protects your entire SAP stack with high availability clustering, continuous data replication, and disaster recovery functionality

- SIOS DataKeeper enables Windows Server Failover Clustering in any combination of physical, cloud, hybrid cloud, or virtual server environments

- **Enables single- and multi-site clusters** using existing servers and storage

- **Supports both JAVA and ABAP** versions of SAP servers running on Red Hat Enterprise Linux, SUSE Linux Enterprise Server, or Windows and accommodates a wide range of storage architectures.

Make Clusters Easy

- **Intuitive, wizard-driven GUI** simplifies installation, configuration and management

- **Supports physical, virtual or cloud environments** and a wide range of storage architectures

Save Money

- **Reduces data transfer costs** in cloud environments

- **Efficient replication** engine minimizes network traffic— without hardware accelerators or compression devices.

- **Saves labor cost** by automating data replication tasks using an intuitive management console

Try it free!

https://us.sios.com/free-trial

SIOS SAN and SANless clustering software provides comprehensive SAP-certified protection for your applications and data, including high availability, data replication, and disaster recovery in an easy, cost-efficient solution.

SIOS software lets you build Clusters Your Way™ to protect SAP in Windows or Linux and any combination of physical, virtual, cloud (public, private, and hybrid) and high performance flash storage environments. SIOS software provides easy and flexible configuration, fast replication, and comprehensive monitoring and protection of the entire SAP application environment.

SAN and SANless Clusters

You can use SIOS software to build a traditional SAN-based cluster or build a SIOS SANless cluster by synchronizing local storage on the active SAP Server with local storage on a standby server using SIOS real time, block-level replication. Replication can operate in either synchronous or asynchronous mode.
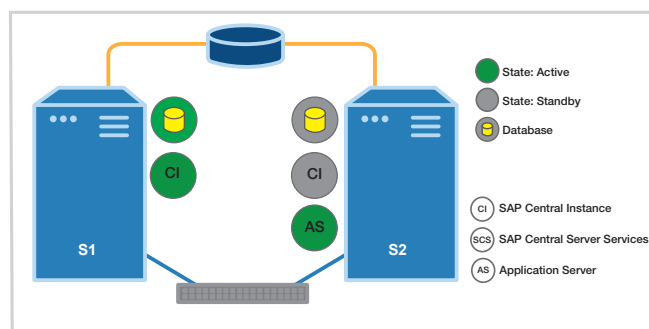
Protecting SAP in Windows Environments

In a Windows Server Failover Clustering environment, simply add SIOS DataKeeper™ Cluster Edition to create a SANless cluster that operates where shared storage is not possible or practical. It adds efficient replication to synchronize local storage on each cluster node, creating a SANless cluster that appears to WSFC like a traditional storage. With it, you can create a Windows cluster in a cloud, hybrid cloud, or extend a traditional on-premises SAN-based cluster with a node in the cloud for disaster recovery.

Protecting SAP in Linux Environments

SIOS Protection Suite™ software provides comprehensive SAP-certified high availability protection for your entire SAP environment in Linux including SAP HANA in-memory database technology.

Unlike traditional clustering software that only verifies that the server is alive, SIOS Protection Suite software monitors the health of the entire SAP environment and provides application-aware high availability to ensure maximum uptime.

SIOS software verifies that SAP is running, file shares or NFS exports are available, databases are mounted and available, and clients are able to connect. To protect SAP HANA, SIOS software works in conjunction with the HANA System Replication to ensure high availability for your business critical data and database functions.

Continuous Monitoring of the Entire SAP Environment

SIOS Protection Suite software actively monitors: servers, operating systems, SAP Primary Application Server (PAS) Instance, ABAP SAP Central Service (ASCS) Instance, back-end databases (Oracle, DB2, MaxDB, MySQL and PostgreSQL), the SAP Central Services Instance (SCS), volumes or file systems, file shares or NFS mounts, IP and virtual IP, Enqueue and message servers,and Logical Volumes (LVM).

Automatic or Manual Failover

In the event of a failure on the active server, SIOS software moves SAP operation to the standby server. SIOS software lets you configure standby servers that are either local or remote over a LAN or WAN. Real-time replication ensures immediate recovery from a local system failure and allows you to create multiple real-time copies through one-to-many replication.

SIOS clusters can also stop and restart the application both locally and on another cluster server at either the same site or at another geographic location. When the SIOS software detects a problem, it automatically initiates one of three configurable recovery actions that will maximize uptime and protection for applications and data: it may attempt a restart on the same server; switchover to a standby server; or alert a system administrator. It performs both local recovery or complete failover quickly and easily.

SAP Disaster Recovery

The SIOS software makes DR testing easy by allowing administrators to move SAP to the DR site for testing and to move it back to the primary site when testing is done. It also lets you leave SAP in service in the primary site while completing DR testing with no impact to your production network by unlocking the target data, bringing SAP into service on the backup system to verify recovery.

About SIOS

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

Clusters Your Way.™
Essential to 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 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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Integration with SAP NetWeaver®