



SIOS Protection Suite

High availability for SAP HANA in Linux Environments

Key Benefits

Provide Superior Protection

- Protects your entire SAP stack, including SAP HANA with high availability clustering, continuous data replication, and disaster recovery functionality
- Enables single- and multi-site clusters using existing servers and storage
- Supports Red Hat Enterprise Linux and SUSE Linux Enterprise Server, and accommodates a wide range of storage architectures.
- Intuitive, wizard-driven GUI simplifies installation, configuration and management

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. SIOS software works in conjunction with SAP HANA System Replication for complete protection of your business critical data and database functions.

SAP HANA System Replication Support

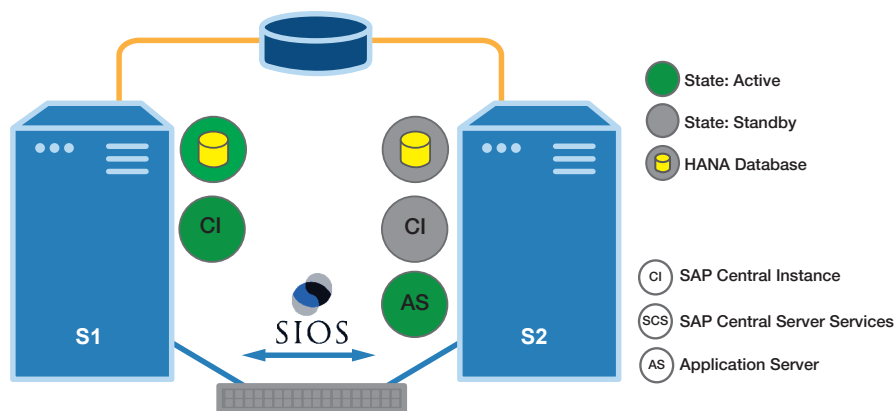
To ensure the functionality of the SAP HANA system, SIOS software continuously monitors the health and functionality of the following processes and states:

- SAP Host Agent on all nodes
- SAP Start Service for the instance (sapstartsrv) on all nodes
- State of the SAP HANA database on all nodes
- State of the system Replication mode (primary on active node, sync|syncmem|async on secondary nodes)

Automatic or Manual Failover

SIOS software lets you configure standby servers that are either local or remote over a LAN or WAN. SIOS clusters can also stop and restart the database both locally and on another cluster server at either the same site or at another geographic location.

If SIOS Protection Suite detects a failure on the active server, the SIOS software moves the virtual IP to the standby node, enabling SAP HANA System Replication to continue. If SIOS Protection Suite detects an invalid state of the System Replication,



it automatically places the SAP HANA resource in the state faulty (OSF), allowing the database administrator to perform a takeover or correct the System Replication mode.

When SIOS Protection Suite carries out the "Out of Service" action, it only stops the database on the primary node. The database on the secondary node remains active as does the System Replication mode.

The SIOS software makes DR testing easy by allowing administrators to move HANA 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 HANA 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.

SIOS software provides an easy, cost-efficient way to provide high availability protection for SAP environments.

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.