

# The Industry's Most Comprehensive Disaster Protection for SAP HANA

SIOS LifeKeeper for Linux delivers multitarget protection from downtime and disasters

## Key Benefits

### HANA-Specific Intelligence

- Automates configuration
- Orchestrates failover
- Manages replication

### Advanced Automation

- Reliable, automated failover according to SAP best practices
- No scripting to maintain DR protection
- Restore to normal settings with one click
- Reduced risk of misconfiguration
- No specialized expertise needed

### In-depth monitoring of entire IT stack

- Network
- Storage
- Operating system
- Hardware
- HANA database

### Leverages HANA takeover with handshake

- Fast switchover
- Near zero downtime maintenance

### Supports leading Linux distributions

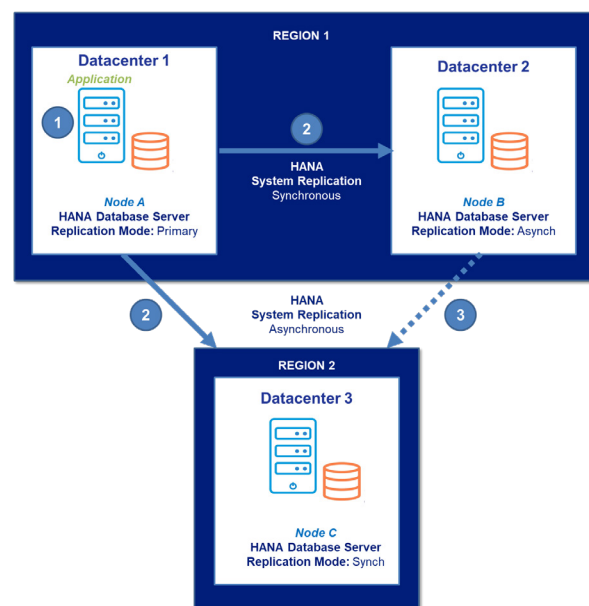
- SUSE
- Red Hat
- Rocky
- Oracle

SIOS LifeKeeper for Linux with HANA Multitarget feature provides automated high availability and disaster recovery (HA/DR) protection for HANA databases. It allows you to extend a traditional two-node failover cluster to include additional nodes in DR location(s) without the need for complex scripting or cumbersome administration tasks.

## Automated HANA HA/DR for up to four cluster nodes

LifeKeeper supports synchronous or asynchronous block level replication from the primary HANA node to up to three secondary nodes using block level HANA System Replication (HSR). LifeKeeper automatically orchestrates failover and manages replication to DR site for hands free recovery from faults, failures and disasters.

Three-node HANA Multitarget Configuration



The application (1) runs on primary Node A located in Datacenter 1, Region 1. HSR replicates storage from Node A to both secondary Nodes B and C (2). If SIOS LifeKeeper detects an availability issue, it automatically orchestrates an application failover from Node A to Node B and switches DR replication so that node B replicates to Node C (3) maintaining DR protection. When normal operation is restored to Node A, LifeKeeper automatically restores original replication settings with a single click.

## Automated HANA HA/DR for up to four cluster nodes

The HANA application recovery kit (ARK) for SIOS LifeKeeper for Linux provides HANA-specific intelligence and automation of manual configuration and administration tasks saving time and eliminating risk of human error. SIOS LifeKeeper auto-validates user input during configuration and automates monitoring, failover and replication management to deliver reliable failover in compliance with SAP best practices.

## Failover across regions and availability zones

SIOS LifeKeeper provide configuration flexibility allows you to create a cluster with nodes in different AWS regions and Availability Zones for local, regional, and sitewide disaster protection. You can also create an on-premises cluster with a DR node in the cloud.

## Optimize HANA performance with read-enabled secondary nodes

Just as in a two-node SIOS cluster, the HANA Multitarget feature enables you to use one cluster node as a read-enabled (active/active) secondary node for read-intensive tasks to balance workloads and improve the overall HANA database performance.

## Monitoring of entire IT stack

Unlike traditional clustering software that simply monitor cluster node operating status, SIOS LifeKeeper monitors the entire IT stack - including network, storage, operating system, application, and hardware - and communicates with all associated cluster nodes. Comprehensive monitoring enables LifeKeeper to detect and respond to downtime threats faster and more accurately.

## Avoiding the need for failovers

If LifeKeeper detects an issue, it automatically takes steps to restart the database to avoid the need for failover. If a failover is necessary, it automatically moves operation to a secondary node in the cluster and raises that node to primary status and it automatically begins replicating to the DR node(s).

## Fast Switchover, Near Zero Downtime Maintenance

SIOS LifeKeeper leverages HANA takeover with handshake functionality, preloading in-memory data for fast switchover and near zero downtime maintenance.

**SAP® Certified** Integration with SAP NetWeaver® | **SAP® Certified** Integration with SAP S/4HANA\*

## About SIOS Technology

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

Essential to any cluster solution, SIOS clustering software provides the flexibility 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, Germany, Singapore and Japan.

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