

INFOSCALE AVAILABILITY (VCS) REPLICATION AGENT FOR DELL EMC SC- SERIES STORAGE ARRAYS

V3.0

[Release Notes](#)

Linux, AIX, Solaris

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SUPPORTED HOST ENVIRONMENTS

Supported operating systems

- Red Hat Enterprise Linux 7.3
- Red Hat Enterprise Linux 7.4
- Red Hat Enterprise Linux 7.5
- Solaris 11.3
- AIX 7.1
- AIX 7.2

Supported versions of Cluster Server

- InfoScale 7.3.1.100
- InfoScale 7.2.0.200
- InfoScale 7.1.0.200
- InfoScale 7.0.1
- VCS 6.1.1

Supported server environments

	InfoScale 7.3.1.100	InfoScale 7.2.0.200	InfoScale 7.1.0.200	InfoScale 7.0.1	VCS 6.1.1
Solaris 11.3	+	not supported	not supported	+	+
AIX 7.1	+	not supported	not supported	+	+
AIX 7.2	+	not supported	not supported	not supported	not supported
RHEL 7.3	+	+	+	not supported	not supported
RHEL 7.4	+	+	+	not supported	not supported
RHEL 7.5	+	not supported	not supported	not supported	not supported

Please note that Virtual Servers are not supported by current SC Agent release. Only physical environments are supported. This supportability limitation will be lifted in the future releases.

SUPPORTED SC-SERIES ENVIRONEMENTS

Supported SC-Series arrays

- SC5020
- SC7020

- SC9000
- SC8000

Supported SCOS versions

- SCOS 7.1
- SCOS 7.2
- SCOS 7.3

Supported management environments

- DSM 2016 R2 or later
- REST API 3.3 or later

Dell Storage Manager (DSM) supports installation in both redundant and not-redundant modes. Redundant option requires installation of a “DSM Replica” server responsible for asynchronous copy of a management database and failover operations in case of the primary DSM server failure. SC Agent supports automatic failover to DSM replica should primary DSM fails. To enable DSM failover a user should configure optional “DSMStandby” parameter of the SC resource. The DSMStandby parameter should be set to an IP address or host name of the DSM Replica server.

SUPPORTED CONNECTIVITY

Supported host-to-storage connectivity

- FC SAN

Please note that Direct-Attach FC host connectivity is not supported.

Please note that iSCSI SAN is not supported by current SC Agent release.

Supported data replication connectivity

- FC SAN
- iSCSI SAN

For Live Volume and Live Volume Auto Failover there are two supported connectivity topologies:

- Uniform (all hosts can access both source and target copies of production volumes)
- Non-Uniform (hosts can access only local volumes – either source OR target)

SC Agent supports both topologies. However, the Non-Uniform option should be preferred over Uniform unless there are clear requirements for Uniform mode.

SUPPORTED DATA REPLICATION

Supported Remote Replication Technologies

- Live Volume
- Live Volume Auto Failover
- Legacy Replication (for disaster recovery/failover only)

Supported Remote Replication modes

	Synchronous High Availability	Synchronous High Consistency	Asynchronous with Active Snapshot replication	Asynchronous with Active Snapshot NOT being replicated
Live Volume	+	not supported	+	not supported
Live Volume Auto Failover	+	not supported	not supported	not supported
Legacy Replication	failover only (for disaster recovery purposes)	not supported	failover only (for disaster recovery purposes)	not supported

In general, Live Volume and Live Volume Auto Failover technologies support simultaneous read-write access from both source and destination arrays. However, to avoid an accidental access to a production volume from multiple cluster nodes simultaneously (in case of a split-brain, for instance), SC Agent insures that only the Primary Volume in a LV/LV-AFO pair has write-enabled mapping, while Secondary Volume is mapped with "Read-Only" flag enabled. This setting (RO flag) should be manually setup by engineer during initial replication configuration and volumes mapping. If correct Read-Write / Read-Only volume mappings are not configured during installation phase, then the Agent will fail at ONLINE procedure.

Replication maximums

As of SCOS 7.3, each SC-Series controller pair supports:

- Up to 150 Live Volume Auto Failover pairs
- Up to 500 Live Volume pairs

Please note that the sum of Live Volume and Live Volume Auto Failover pairs should not exceed 500 pairs per SC-Series controller pair running SCOS 7.3

The SC Agent supports:

- up to 32 Live Volume pairs per single DiskGroup
- up to 32 DiskGroup parent resources per single instance of SC Agent