



StoragePro GDR



SANRAD StoragePro Global Data Replication (GDR) software is installed and integrated into the V-Switch. GDR provides unlimited data replication and site recovery between V-Switches located at facilities connected by any local, metropolitan or wide area IP network.

GDR introduces network based, data change replication. GDR provides planned and unplanned, volume or site failover and recovery for uninterrupted storage operations and 24/7 business continuance.

StoragePro Global Data Replication (GDR) Key Features and Benefits

SAN Connectivity and Management for Every Server.

SANRAD's unique network architecture couples standard IP and FC connectivity with integrated storage virtualization and management. It inexpensively delivers FC SAN connectivity and storage services throughout the enterprise, and is completely non-disruptive.

Customers can maintain and grow their existing FC infrastructures, natively connecting additional servers where performance matters most, and using SANRAD's iSCSI connectivity and management for other purposes including, user file, email or database storage.

SANRAD's V-Switches are storage-agnostic. IT managers can utilize existing resources and employ different brands and classes of storage to meet the varying cost, performance and reliability requirements of the organization.

VOLUME SPECIFIC	Select only the volumes you wish to replicate to conserve bandwidth costs and efficiently utilize storage capacity. Build volume consistency groups to ensure that related volumes are replicated at the same time to maintain data flow integrity for databases and other multi-volume applications.
SYNCHRONOUS AND ASYNCHRONOUS REPLICATION	Replicate asynchronously using SANRAD journaling technology eliminates the cost associated with high speed connections. Efficiency is gained by caching changes locally and then replicating them over time across any bandwidth to the remote site. Synchronous replication over high performance networks maintain exact duplicates of live data between two locations to ensure full data recovery and achieve zero RPO (Recovery Point Objective).
BACK TO BACK AND MANY TO ONE REPLICATION	Replicate data from the primary site to the recovery site, replicate data between two production sites so each site can recover from the other and replicate multiple satellite offices to a single central data center. Moreover, all the configurations can operate simultaneously.
GUIDED RECOVERY PROCESS	Guide users in failover and failback processes using wizard-based management to minimize RTO (Recovery Time Objective). Planned failover and fail-back minimize service interruption time during site migration or full site maintenance for 24/7 business continuity.
USE ANY V-SWITCH AND ANY STORAGE	Perform global data recovery from any model V-Switch to any other model V-Switch. You can select any type or brand of disk storage for the primary site and remote site. Select the storage type that best fits your requirements for performance, cost and reliability.
SERVER AND OPERATING SYSTEM INDEPENDENT	Replicate using the V-Switch throughout the entire network. There is no need to purchase data replication software or licenses for each server and operating system. There is no additional cost associated with GDR for adding servers, volumes, or storage capacity.
MANAGEMENT INTERFACE	Configure and manage with the same StoragePro Management GUI used to manage other StoragePro software operating inside the V-Switch. Multi-site global data replication and recovery can all be managed from a single interface.



StoragePro Management GUI

StoragePro Management GUI Key Features and Benefits

ADMINISTER THE IP SAN FROM A CENTRALIZED INTERFACE

Easily manage a global infrastructure of SANRAD V-Switches from a single interface GUI to allocate storage capacity from any device, anywhere, anytime.

UNDERSTAND YOUR ISCSI TOPOLOGY

Have a single view of V-Switch fans, power supplies and temperature.

DETECT AND TROUBLESHOOT FAULTS

SNMP generates alarms and logs for user defined events. StoragePro generates email messages for real-time tracking and monitoring of both SANRAD V-Switches and StoragePro Software.

REMOTE REPLICATION AND DISASTER RECOVERY (SOLD SEPARATELY)

SANRAD StoragePro Global Data Replication, GDR, provides unlimited data replication and site recovery between V-Switches located at facilities connected by any local, metropolitan or wide area IP network.

StoragePro Global Data Replication (GDR) Specifications

Initial synchronization policies:

- Online sync—copy volumes over the net (local or remote)
- Offline sync—copy volumes using backup/restore
- No sync—no need to copy (i.e. new or empty volumes)

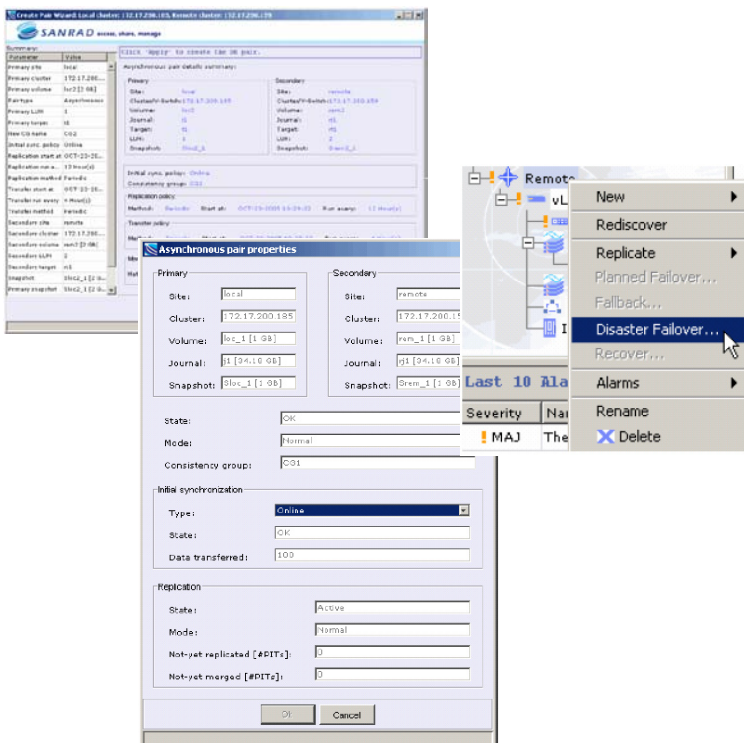
Asynchronous replication policies

- Journal based—can be increased while remaining online
- Point-in-time (PIT) Periodic—time based
- Change coalescence reduces data duplication

Replication Options

- 1-Way, back to back, and many to one
- Active/ active sites—unplanned or planned failover and fail-back
- Volume specific
- Consistency groups for data bases
- Delta block changes only
- Support up to 256 sites

StoragePro Management GUI



Typical Installations

