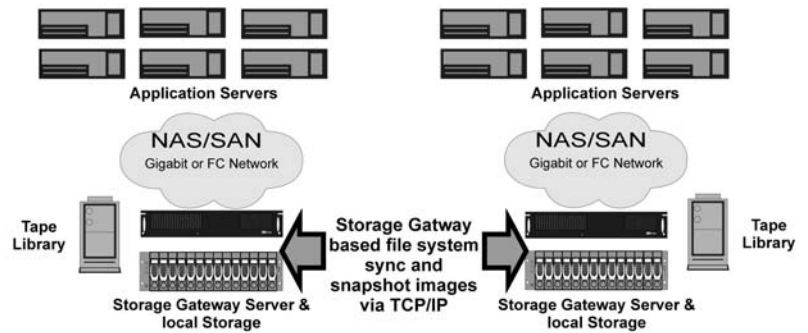


*“Conquer Your Mountains of Data”*

## Gateway Based Disk-To-Disk Backup Utilizing CorData Storage Gateway Servers

# CorData Disaster Recovery Solutions



CorData Disaster Recovery Solutions replicate mission-critical information between two Data Centers or between Remote Offices and Data Centers via innovative, database-aware Storage Gateway Servers.

CorData Disaster Recovery (DR) Solutions deliver the following benefits:  
Address all potential disasters including sudden outages and rolling disasters  
Achieve established recovery time objectives and recovery point objectives, and provide effective data protection during pre-disaster, during disaster, and post-disaster recovery.

## Disaster Recovery

CorData Disaster Recovery Solutions, consist of synchronous mirroring; asynchronous mirroring; and database-aware, transaction-based replication. Our DR solutions defend against a rolling disaster without the expense or integration of additional software or hardware.

Whether it's to achieve established recovery point objectives or recovery time objectives, the CorData DR Solution provides rapid resumption of business services in the event of a sudden unplanned outage with minimal data loss, by delivering the functionality required to comprehensively address all phases of a disaster: pre-disaster, during disaster, and post-disaster, as follows:

### Phase 1: Pre-Disaster

LUN pre-assignment prevents chaos when a disaster strikes – CorData Storage Gateway Servers allow a replica disk to be pre-assigned to hot standby machines at the DR site, but prevents writing to the replica. If a disaster strikes, the replica is promoted to primary status, and the LUN assignment operates automatically. This prevents the chaos usually caused when administrators are not sure which replica should be assigned to which standby host during an emergency.

### Phase 2: During Disaster

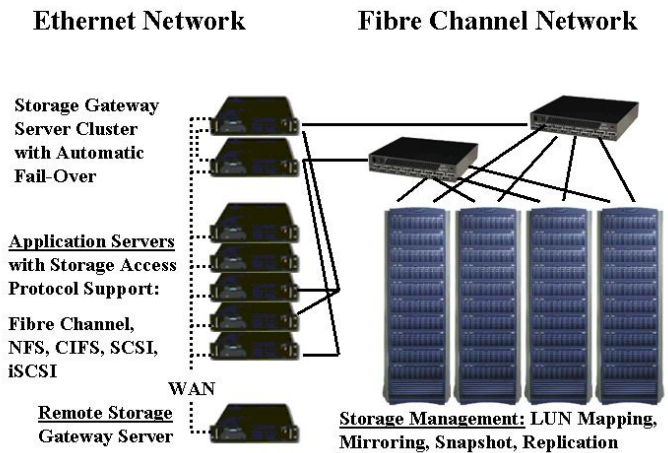
Sudden Disaster – If the primary site suddenly fails, it could be in the middle of a replication process. CorData Storage Gateway Servers defend against replica corruption by storing the changes in a separate area, and do not write the changes to the replica unless the entire data set is received and confirmed. Therefore, either a replication is successful or it has failed and will be retried. No partial changes are applied to the replica.

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CorData Disaster Recovery Solutions

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“Storage Network Solutions are a service, not a product.”



# Disaster Recovery

Rolling Disaster – If the primary site is gradually failing, this may lead to corruption that is not detected until it is too late. But when the CorData Storage Gateway Server snapshot option, (TimeMark), is enabled at the replica, each individual change is journaled. When the disaster is finally recognized, the replica can be promoted, and the TimeMark snapshots can be used to go back in time until a good state is found. Storage Gateway Servers can keep 256 snapshot images, which can represent weeks of historical data for rollback purposes.

Phase 3: After Disaster

Fast Reverse-Sync – To revive the primary site after the problem is fixed, it is necessary to reverse synchronize newer data from the DR site back to the primary site. CorData Storage Gateway Servers facilitate role reversal and “scan-for-difference” operations to minimize the time necessary to re-establish the primary site.

CorData DR solutions leverage the latest low-cost ATA RAID as well as redeploy existing SCSI or fibre channel storage into new local or remote DR configurations.

CorData Storage Gateway Server  
Disaster Recovery Highlights:

- Zero performance impact on the host(s) at primary site
- Minimal failover time
- Up to 256 versions maintained per Replica
- Replica can be mounted for Read/Write access over IP/FC
- Minimal fail-back time
- Data compression and data encryption support
- Auto failover at disk, LUN, channel and cabinet level
- Eliminates downtime during disk upgrade and/or replacement
- Fast and easy point-and-click mirror creation
- Enables writes to reach mirror over long distance WANs

Low Cost Storage  
Highly Available Data  
Centralized Management

Delivers rapid resumption  
with minimal data loss.  
Addresses sudden outages  
and rolling disasters.  
Offers host/OS and storage  
hardware independence.

**CorData**

**CorData, Inc.** www.CorDataSys.com  
11350 Random Hills Road, Suite 800  
Fairfax, VA 22030  
Phone: 703-279-6460, Fax: 703-279-6463

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