

Replicator Software

Key Benefits

Network-Efficient Replication

- > Multi-site tape consolidation
- > Remote site replication
- > Cost-efficient disaster recovery

Multi-Site Disaster Recovery

- > 99% bandwidth reduction
- > Flexible replication topologies

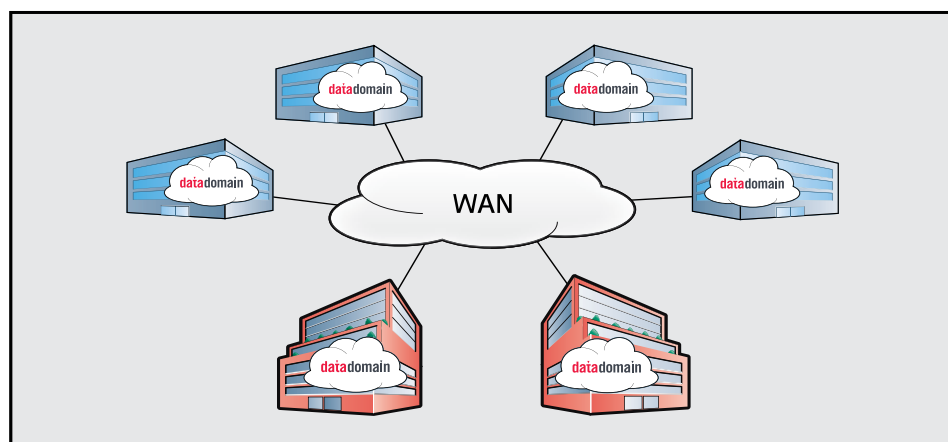
Easy Integration

- > Supports leading backup and archive applications from:
 - Symantec
 - EMC
 - HP
 - IBM
 - Microsoft
 - CommVault
 - Atempo
 - BakBone
 - Computer Associates
- > Supports leading enterprise applications including:
 - > Database: Oracle, SAP, DB2
 - > Email: Microsoft Exchange
 - > Virtual environments: VMware
- > Simultaneous use of VTL, NAS and Symantec OpenStorage (OST)

Inline Deduplication and Replication of Nearline Data

To prepare for disasters, data must be copied to a safe site. Today's standard practice uses backup software to make tapes which are then shipped off-site in trucks. This manually intensive process is error prone and introduces security risks. Furthermore, viable network-based alternatives are limited because of the large size of the data. There just isn't enough affordable bandwidth or time in the day to move backup and archive data over a conventional Wide Area Network (WAN).

Until now. Data Domain Replicator software turns a Data Domain appliance into the industry's most network-efficient offsite replication solution for disaster recovery, remote office data protection, multi-site tape consolidation and longer term retention. With Data Domain high-speed, inline deduplication, data sets are shrunk down to a size that makes network-based replication, or "WAN vaulting" of nearline data secure, reliable and economical. Data Domain Replicator software easily integrates with your existing network infrastructure and with industry standard enterprise backup and archive software.



Network-Efficient Replication

Data Domain systems provide the industry's highest throughput and most scalable deduplication storage systems for disk backup and network-based disaster recovery (DR). Using Data Domain Replicator, enterprises can now vault or asynchronously replicate selected business-critical nearline data from one system over the WAN to another system at a secure off-site location.

Data Domain Replicator significantly reduces the data sent to or from remote locations by sending only new and unique data segments in a smaller, deduplicated format. And it happens automatically as data is stored, thereby allowing administrators to focus on other critical functions.

Network-based replication, enabled by massive data reduction, eliminates the security risk associated with human intervention and physical transportation. Using networks to

move backup and archive data offsite for DR is now economically and operationally feasible.

Cut Network Bandwidth Utilization by up to 99%

Data Domain deduplication technology massively reduces data volume stored in a given Data Domain system, resulting in a 20x average data reduction rate.

Data Domain Replicator performs two levels of bandwidth reduction. The first level is the result of local data reduction in the originating system. Typically less than 1% of a full backup, for example, is actually new, unique compressed sequences. Only this 1% has to be replicated over a WAN.

The second level is the result of cross-site deduplication when multiple sites replicate to the same destination system. The Data Domain system, acting as a destination for other sites, negotiates with the originators to minimize bandwidth by deduplicating across

all replication streams and all local stores. Here, Data Domain deduplication is “global” across the network. Unique segments previously transferred by any remote site, or held in local stores, are used in the deduplication process to further improve network efficiency by reducing the data to be vaulted over the WAN.

Multi-Site Disaster Recovery

Once vaulted across the WAN, data can be recovered or duplicated to tape from the Data Domain nearline storage system at either location. If there is a problem with the onsite originating system, a server can access the replicated data over the WAN to get key information back onsite quickly.

Site-to-site bidirectional replication provides added disaster protection, allowing each site to keep local stores while serving as the secure recovery site for the other location. All Data Domain systems can simultaneously host local stores and host replicated images from other sites.

Data Domain Replicator software provides intelligent remote replication for globally distributed enterprises. Multiple geographically distributed branch offices can simultaneously vault selected backup and archive data to a central hub enabling a flexible, enterprise-wide site recovery and retention model.

Cross-site deduplication further improves network efficiency by eliminating the need to transfer common data already received. Remote office backup and recovery can now be achieved orders of magnitude faster, cheaper, more securely and reliably than with tape technologies.

Easy Integration into Existing Infrastructures

Tape handling is unreliable, insecure and labor-intensive. Data Domain Replicator is qualified with all leading enterprise backup software and easily integrates into existing enterprise backup infrastructures. Additional deployment flexibility exists with support for simultaneous deduplicated backup to disk using the Data Domain VTL over Fibre Channel, through existing NFS, CIFS and NDMP file service protocols over Ethernet, or as a disk-based target using application specific interfaces such as the Symantec OpenStorage (OST). This deployment flexibility and the simple administration enables IT organizations to rapidly adjust to changing business requirements.

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