



Data Domain® Replicator Software

WAN VAULTING OF ENTERPRISE BACKUP 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 data over a conventional Wide Area Network (WAN).

Until now. The Data Domain Replicator software option turns a Data Domain restorer into the industry's most network-efficient WAN vaulting solution for disaster recovery (DR), remote office data protection and multi-site tape consolidation. With Data Domain's Global Compression™ technology for data deduplication, backup data sets are shrunk down to a size that makes WAN vaulting of backup data secure, reliable, operational and economical. The Data Domain Replicator software option easily integrates with your existing network infrastructure and with industry standard enterprise backup software.

SECURE, SIMPLE AND AFFORDABLE WAN VAULTING

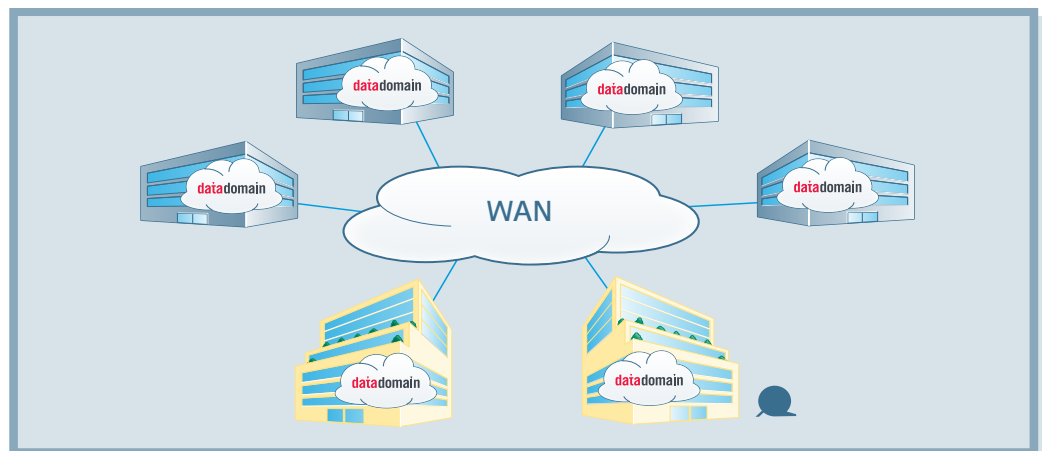
Data Domain Enterprise Protection Storage systems are the industry's highest throughput and most scalable deduplicating systems for disk backup and network-based DR. Using Data Domain Replicator, enterprises can now vault or asynchronously replicate selected business critical backup data from a given restorer over the WAN to a secure off-site location. Data Domain Replicator significantly reduces the data sent to remote locations by vaulting only new and unique data segments in compressed format. And it happens automatically as backup data is stored,

thereby allowing backup administrators to focus on other critical functions.

WAN vaulting, enabled by massive data reduction, eliminates the security risk associated with human intervention and physical transportation. Using networks to move backup data offsite for DR is now economically and operationally feasible.

CUTS NETWORK BANDWIDTH UTILIZATION UP TO 99%

The Data Domain Global Compression technology massively reduces data volume stored in a given Data Domain system, resulting in a data reduction rate of 20x average over time. In WAN vaulting, Data



Domain Replicator performs two levels of bandwidth reduction. The first level is the result of local data reduction in the originating restorer. Typically less than 1% of a full backup is actually new, unique compressed sequences. That is all that has to be sent over a WAN.

The second level is the result of cross-site deduplication when multiple sites replicate to the same destination restorer. The Data Domain restorer, acting as a destination for other sites, negotiates with the originators to minimize bandwidth by deduplicating across all backup replication streams and all local backups. Here, Global Compression is "global" across the entire vaulting network. Unique compressed segments previously transferred by any remote site, or held in local backup, are used in the deduplication process to further improve network efficiency by reducing the data to be vaulted.

Fast Online Data Recovery and Tape Consolidation

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

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

Remote Office Data Protection

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

Administrative Simplicity and Deployment Flexibility

Tape handling is unreliable, insecure and labor-intensive. Data Domain Replicator is designed to work with industry standard enterprise backup software and is simple to deploy for WAN vaulting by easily integrating into existing network infrastructures. No changes are required to the backup policies or the network and no complex management is required. Additional deployment flexibility exists with vaulting support for backup data simultaneously stored through NFS, CIFS and on virtual cartridges through the Data Domain Virtual Tape Library option. By using WANs and automated data movement, the process is brought to the level of efficiency and effectiveness IT expects from every other component in a data center.

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