

Gateway Series

High-Speed, Inline Deduplication for Third-Party Storage Systems

Key Benefits

Scalable Nearline Storage

- > Fast, inline deduplication with up to 800 GB/hour of throughput
- > Extended retention providing up to 1.25 PB of protection storage

Multi-Site Disaster Recovery

- > 99% bandwidth reduction
- > Flexible replication topologies
- > Multi-site tape consolidation
- > Remote site replication
- > Cost-efficient disaster recovery

Easy Integration

- > Supports leading backup and archive applications
 - > Symantec
 - > EMC
 - > HP Data Protector
 - > IBM TSM
 - > CommVault
 - > Computer Associates
 - > Atempo
 - > BakBone
- > Supports leading enterprise applications
 - > Database: Oracle, SAP, DB2
 - > Email: Microsoft Exchange
 - > Virtual environments: VMware
- > Simultaneous use of VTL and NAS
- > Supports third-party enterprise storage

Ultra-Safe Storage for Reliable Recovery

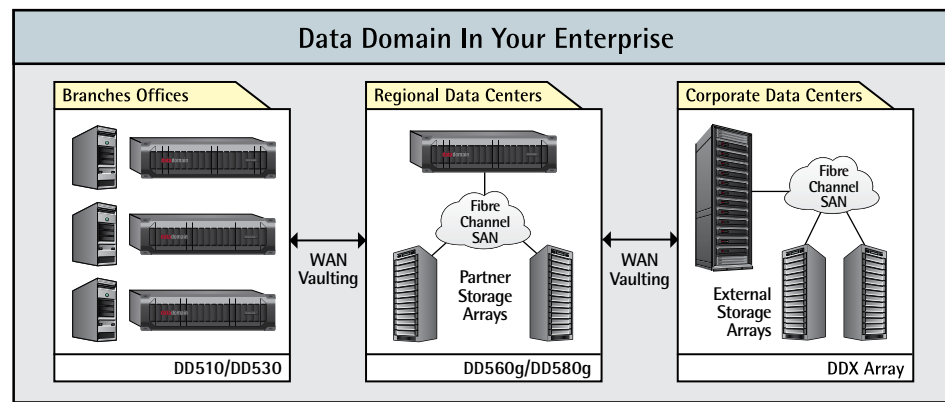
- > Continuous recovery verification
- > Continuous fault detection and healing

Operational Simplicity

- > 10-30x data reduction
- > Lower administrative costs
- > Power and cooling efficiencies for green operation
- > Reduced hardware footprint
- > Supports any combination of nearline applications in a single system

Today's traditional disk backup systems go no further than providing a front-end to a tape library infrastructure with a fast cache, temporarily alleviating backup window problems. They fail to replace tape automation technology because they lack the requisite economic and operational qualities. Traditional disk cannot cost-efficiently retain backup and archive data for any length of time, and the data is too large to be replicated over a Wide Area Network (WAN).

Data Domain has revolutionized disk backup and remote office data protection. with patented high-speed, inline deduplication. Backup data can be reduced in size by an average of 20x, so disk backup storage is now cost-effective for long-term onsite retention and highly efficient for WAN vaulting to disaster recovery sites.



Massive Data Reduction

The Data Domain Gateway Series offers the industry's highest throughput and most scalable nearline storage systems for disk backup and network-based disaster recovery (DR). The Gateway Series complements the Data Domain Array Series and Appliance Series by enabling capacity optimization for environments that want to use third-party enterprise storage systems for long-term retention. Using market leading Global Compression™ deduplication technology, the Gateway Series offers an average of 20x data reduction for enterprise recovery images, enabling cost-efficient retention on disk for high-speed and more reliable recoveries.

Easy Integration Into Existing Infrastructures

The Gateway Series is qualified with leading enterprise backup and archive software and with storage systems from several leading enterprise storage providers. The gateway easily integrates into the existing infrastructure without change for either data center or distributed office data protection. Use the Gateway Series to protect all enterprise application and home directory data.

Scalable Data Protection

The Gateway Series offers data protection capacities up to 1.25 PB of logical storage per gateway for a typical enterprise data set and backup policy. With its high performance system architecture Data Domain gateways offer up to 800 GB/hour of throughput, significantly exceeding LTO-4 performance.

Multi-Site Disaster Recovery and Nearline Storage

Connect the gateway to your backup software's media server as either a file server via Ethernet or a virtual tape library (VTL) via Fibre Channel. It takes just minutes to start backing up and recovering data. If required, duplicate to tape using your existing software for off-site and archive support, or use Data Domain Replicator for WAN vaulting to another site for disaster recovery, remote office data protection or multi-site tape consolidation.

With Data Domain deduplication technology, backup data sets are effectively shrunk by 99%, to a size where WAN vaulting is operationally feasible.

For other nearline workloads, simply copy and paste files or use an archiving application to move data to the appliance.

Ultra-Safe Storage for Reliable Recovery

Data Domain's Data Invulnerability Architecture provides the industry's best defense against data integrity issues. Continuous recovery verification along with extra levels of data protection continuously detect and protect against data integrity issues during initial backup and throughout the data life cycle. Unlike any other enterprise array or file system each gateway ensures recoverability is verified and then continuously re-verified. Nearline storage is RAID-6 protected using the native capabilities of the external storage.

SPECIFICATIONS	DD560g	DD580g
Capacity: Raw ³	Up to 17.3 TB	Up to 22.8 TB
Logical Capacity: Standard ^{1,3}	400 TB	550 TB
Logical Capacity: Redundant ^{2,3}	980 TB	1.25 PB
Maximum Throughput	400 GB/hr	800 GB/hr
Power	280 W	431 W
Cooling	956 BTU/hr	1472 BTU/hr

1. Mix of typical enterprise data (file systems, databases, mail, developer files), full backup weekly, incremental backup daily, to system capacity
2. Mix of typical enterprise data (file systems, databases, mail, developer files), full backup daily, to system capacity
3. All capacity values are calculated using Base10 arithmetic (i.e., 1TB = 1,000,000,000,000 bytes)

SOFTWARE

Data Domain Operating System (DD OS) 4.3 or later

Software Features

Global Compression, Data Invulnerability Architecture including end-to-end verification (ongoing), snapshots, telnet, FTP, SSH, email alerts, scheduled capacity reclamation, Data Domain Replicator (add-on option)

Management

Data Domain Enterprise Manager, GUI, SNMP, and command line management interface

Protocols

NFS v3 over TCP, CIFS, NDMP v2, tape library emulation (VTL) over Fibre Channel

HARDWARE PLATFORM

3U 19-inch, four-post, rack-mount enclosure, hot-plug disks, redundant fans, N+1 power supplies, 2 copper 10/100/1000 Ethernet port (optional dual port add-on Gb Ethernet, copper or fiber), serial port

System Weight

52 lbs (23.6 kg)

System Dimensions (WxDxH)

19" x 26" x 5.25" (48.3 cm x 66 cm x 13.3 cm)

3 EIA Units

Minimum Clearances

Front, with Bezel Closed: 1" (2.5 cm)

Front, with Bezel Open: 5" (12.7 cm)

Rear: 5" (12.7 cm)

Normal Operating Current 115VAC/230VAC

DD560g: 2.4/1.2 Amps

DD580g: 3.7/1.9 Amps

System Thermal Rating

DD560g: 956 BTU/hr

DD580g: 1472 BTU/hr

Operating Temperature and Humidity

+5°C to 35°C at 20% to 80% relative humidity, non-condensing

Non-operating Temperature

-40°C to +65°C

Operating Acoustic Noise

Max 75 dbA, at rear of unit

EXTERNAL STORAGE

Interface

PCI-based Fibre Channel Fabric and Fibre Channel-Arbitrated Loop (FC-AL) / 1 to 4 Gb/sec

Connectivity

Direct-attached; Fibre Channel SAN fabric attached

REGULATORY APPROVALS

Safety: UL60950-1, CSA60950-1, EN60950-1, IEC60950-1, SABS

Emissions: FCC Class A, EN55022, CISPR 22

Immunity: EN 55024, CISPR 24

Power Line Harmonics: EN61003-2

Data Domain

2300 Central Expressway

Santa Clara, CA 95050

866-WE-DDUPE; 408-980-4800

sales@datadomain.com

Copyright © 2007 Data Domain, Inc. All rights reserved. Specifications subject to change without notice. Data Domain, the Data Domain logo and Global Compression are trademarks or registered trademarks of Data Domain, Inc. All other trademarks used or mentioned herein belong to their respective owners. DD-GS-0807