



## Data Domain® Gateway Series

### ENTERPRISE PROTECTION STORAGE FOR BACKUP/RECOVERY

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. Plain disk cannot cost efficiently retain backup data for any length of time, and backup data is too large to be vaulted over a Wide Area Network (WAN).

Data Domain has revolutionized disk backup and remote office data protection by addressing the data volume issue with Global Compression™ technology. Backup data is reduced in size by an average of 20x with Data Domain's patented combination of high speed deduplication and compression. Disk backup storage is now cost-effective for long-term onsite retention and highly efficient for WAN vaulting to disaster recovery sites. Data Domain's Enterprise Protection Storage systems are central to any tapeless data protection architecture for the enterprise.

### MASSIVE DATA REDUCTION

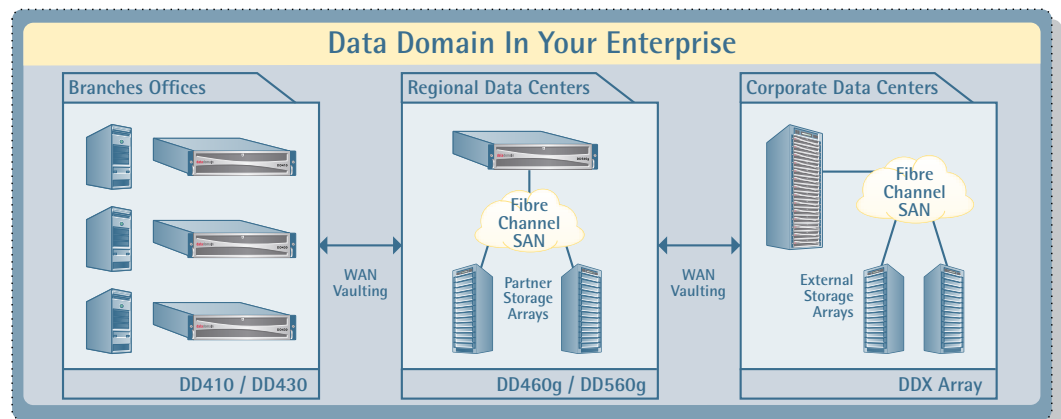
The Data Domain Gateway Series offers the industry's highest throughput and most scaleable protection storage systems for disk backup and network-based disaster recovery (DR). The Gateway Series complements the Data Domain Array Series and Appliances Series by enabling capacity optimization for environments 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 20x data reduction for enterprise recovery images, enabling cost-efficient retention on disk for high-speed and more reliable recoveries.

### TRANSFORMS ENTERPRISE STORAGE

The Gateway Series provides the same benefits as the Appliance Series while using third party fibre channel attached disk arrays. Data Domain's Global Compression technology optimizes storage capacity transforming the external array into a cost-effective storage environment for long-term disk-based data retention with an average of 20x compression.

### Easy Integration Into Existing Enterprise Backup Infrastructures

The Gateway Series is qualified with all leading enterprise backup software and with storage systems from several leading enterprise storage providers. The gateway easily integrates into the existing infrastruc-



ture without change for either data center or distributed office data protection. Use the Gateway Series to protect all enterprise application and home directory data.

**High Capacity, High Throughput Deduplication**

The Gateway Series offers data protection capacities from 100 TB to 980 TB of useable storage per gateway for a typical enterprise data set and backup policy. With its high performance system architecture Data Domain gateways offer hundreds of GB/hour of throughput, exceeding LT0-3 performance.

**Local and Multi-site Data Protection**

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 offsite and archive support, or use Data Domain

Replicator for WAN vaulting to another site for disaster recovery (DR), remote office data protection or multi-site tape consolidation. With Data Domain's deduplication technology, backup data sets are effectively shrunk by 99%, to a size where WAN vaulting is operationally feasible.

**Ultra-Safe Data Protection with 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 life cycle of the backup data. Unlike any other enterprise array or file system each gateway ensures recoverability is verified at backup time and continuously re-verified. Data protection storage is RAID protected using the native capabilities of the external storage.

**Specifications**

	DD460g	DD560g
Capacity: Raw (3)	Up to 4.5 TB	Up to 17.3 TB
Capacity: Standard (1,3)	90 TB	400 TB
Capacity: Redundant (2, 3)	240 TB	980 TB
Throughput maximum	290 GB/hr	400 GB/hr
Power	345 W	345 W
Cooling	1020 BTU/hr	1020 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) 4.0 or later

**Software Features**

Global Compression, Data Invulnerability Architecture including end-to-end verification (ongoing), telnet, FTP, SSH, email alerts, scheduled capacity reclamation (clean), 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 add-on GB Ethernet, copper or fiber), serial port

**System Weight** 55 lbs (25.1kg)

**System Dimensions (WxDxH)**

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

**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: 3.0/1.5A

**Maximum Current at Power Up** 115VAC/230VAC: 4.0/2.0A

**System Thermal Rating** 1020 BTU / hr

**Operating Temperature and Humidity**  
+5°C to 35°F at 5%-90% RH, noncondensing

**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 2 GB/sec

**Connectivity**

Direct-attached; Fibre Channel SAN fabric attached

**REGULATORY APPROVALS**

**Safety:** UL 1950

**Emissions:** FCC Class A

**Immunity:** EN 55024: 1

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