



Magnitude[®] Storage Services Gateway



Comprehensive, Unified Solution for NAS and SAN Storage

The Magnitude Storage Services Gateway (SSG) from Xiotech Corporation blends the traditional ease of use of network-attached storage (NAS) with the resilience, scalability, and performance of a storage area network (SAN).

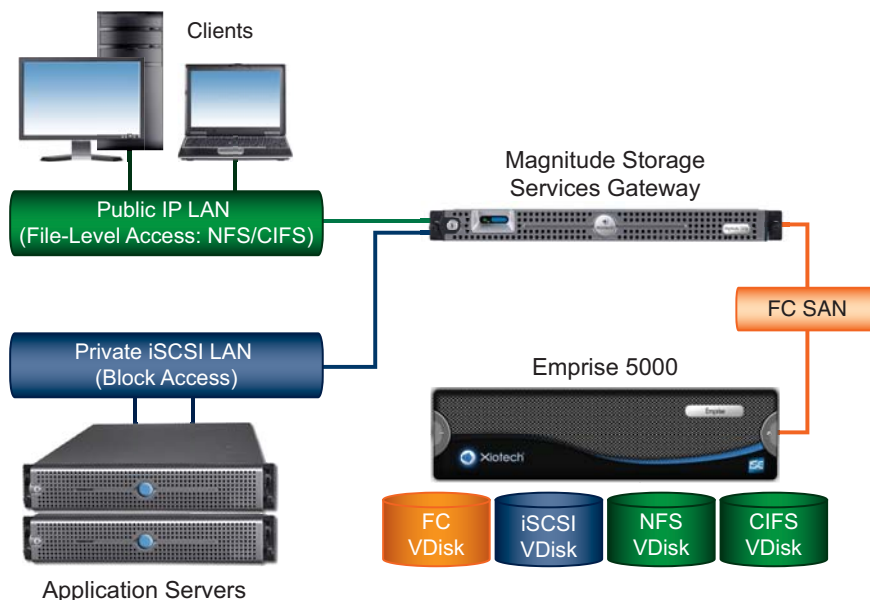
The Magnitude SSG offers unified SAN and NAS support for Windows, Linux, and UNIX environments. It leverages Microsoft[®] Windows[®] Unified Data Storage Server 2003

software to consolidate file and block data management. And it integrates seamlessly with Xiotech's Emprise[™] and Magnitude 3D[®] storage systems to provide scalable, flexible, and resilient storage for all your needs.

Together, the Magnitude SSG and Xiotech's storage solutions deliver fast deployment, inexpensive file serving, and proven ease of centralized storage management.

Capabilities Highlights

- Easy setup
- Tiered storage for NAS and SAN
- Integrated data storage management
- Unified share and storage management
- Simplified resource management
- Seamless integration with IT infrastructure, Xiotech's storage systems, and iSCSI networks
- File sharing across Windows, Linux, and UNIX operating systems
- Efficient management of distributed files
- Efficient printer management
- High availability with clustering and Multipath I/O (MPIO)
- Easy file replication and fast data recovery
- Low total cost of ownership (TCO)
- Server consolidation
- Single Instance Storage



Magnitude SSG Features & Benefits

Unmatched Ease of Use

- **Easy Setup** A single configuration utility starts at logon and guides you through the initial setup.
- **Integrated Data Storage Management** The management console provides a familiar interface to easily deploy, configure, and manage all storage technologies from a single location.
The [Storage Manager for SANs \(SMFS\)](#) feature enables you to perform basic SAN management (e.g., device discovery, LUN creation, storage allocation, clustering).
- **Unified Share and Storage Management** The [Share and Storage Management MMC snap-in](#) simplifies management of shares and volumes. It unifies SMB and NFS share provisioning, integrates share and storage provisioning, and provides an overview of both shares and storage.
- **Simplified Resource Management** The [File Server Resource Manager](#) enables you to easily generate reports detailing storage use, set quotas for folders and volumes, and control the types of data stored.

Seamless Integration

- **Integration with Existing IT Infrastructure** The Magnitude SSG enables you to share data among different platforms, with support for protocols such as SMB, NFS, AppleTalk, and NetWare.
- **NAS-SAN Integration** The solution serves as a gateway to efficient Emprise or Magnitude 3D storage, including boot from SAN capabilities and flexible volume mounting.
- **iSCSI Support** [Microsoft's iSCSI Target](#) feature combines file, print, and block storage services on a single platform. Wizards help you easily create and manage iSCSI targets and disks for storage, as well as implement backup and recovery using snapshots.

Increased Productivity

- **File Sharing across Operating Systems** The Magnitude SSG provides Linux/UNIX/Windows interoperability. The solution also authenticates users and shares files and data across platforms.
- **Efficient Management of Distributed Files** [Distributed File System \(DFS\)](#) enables you to organize distributed file shares for more efficient management. Remote Data Compression (RDC) optimizes WAN traffic, so you can access storage from anywhere and replicate data among branches.
- **Efficient Printer Management** With the [Print Management Console](#), you can manage multiple printers—even those in branch office locations—from a single interface.

Unmatched Reliability

- **High Availability via Clustering and MPIO** Clustering of gateway nodes, along with MPIO, ensures continued availability in the case of node or path failure. Combining these features with DFS helps ensure availability at the file and physical device level.
- **File Replication and Recovery** Leveraging Microsoft's Volume Shadow Copy Service, you can store up to 64 point-in-time copies per volume and recover previous versions of files in minutes, including transportable snapshots.

Low TCO

- **Server Consolidation** Consolidating multiple file servers onto a single Magnitude SSG device reduces server costs as well as associated management costs.
- **Deduplication** The [Single Instance Storage \(SIS\)](#) feature reduces storage requirements by eliminating duplicate files. After locating identical files, SIS saves one copy to a central repository and replaces other copies with pointers to the stored version.

Technical Specifications

Xiotech offers two Magnitude Storage Services Gateway models:

- **Magnitude 110g:** Low-cost, single-node gateway using Windows Unified Data Storage Server 2003 Standard.
- **Magnitude 120g:** High-performance gateway that can be scaled to eight nodes and clustered for high availability. Magnitude 120g uses Windows Unified Data Storage Server 2003 Enterprise.

System Highlights

	Magnitude 110g	Magnitude 120g
Processor	1 QuadCore Intel Xeon E5410 2.33 GHz, 2x6MB cache	2 QuadCore Intel Xeon E5410 2.33 GHz, 2x6MB cache
Memory	4GB 667 MHz	4GB 667 MHz
Network Connectivity Ports	2 Gigabit Ethernet ports with TCP/IP offload	4 Gigabit Ethernet ports with TCP/IP offload
Storage Connectivity Ports	2 FC ports QLogic 2462 HBA	2 FC ports QLogic 2462 HBA
Internal Hard Drives	Diskless – Boot from SAN	Diskless – Boot from SAN
FC SAN Storage Arrays Supported	Emprise 7000, 5000 Magnitude 3D 4000, 3000	Emprise 7000, 5000 Magnitude 3D 4000, 3000
NAS Software	Microsoft Windows Unified Data Storage Server 2003 x64 – Standard	Microsoft Windows Unified Data Storage Server 2003 x64 – Enterprise
Clustering	No – single node only	Yes – up to 8 nodes
Multipath I/O (MPIO)	No	Yes
Single Instance Storage (SIS)	Yes	Yes
iSCSI Target	Yes	Yes
Snapshot	Yes	Yes
LUN Masking	Yes	Yes
Extended Distributed File System (DFS)	Yes, with DFS replication	Yes, with DFS replication
File Sharing Protocols	SMB/CIFS, NFS, AppleTalk, HTTP, WebDAV, iSCSI, NetWare	
Network Protocols	TCP/IP, AppleTalk, IPX, NetBEUI, SNMP	

ExpertCare Support

	Magnitude 110g	Magnitude 120g
Basic Warranty	Hardware (parts, labor) and software for a period of three years. 24x7 phone support, same business day email response, and next business day on-site support and shipment of replacement parts	
Optional Upgrades	4-hour on-site response and parts ¹ Warranty and maintenance extension options	

¹ Available in Support Zone 1 only

Physical Specifications

Component	Depth (in/cm)	Width (in/cm)	Height (in/cm)	Weight (lb/kg)
Gateway Appliance (1U)	30.4 / 77.2	16.7 / 42.6	1.67 / 4.26	35.8 / 16.3

System Power Specifications

Component	Voltage	Power
Gateway Appliance	110 / 220v (auto-switching)	Dual 670 W hot-plug power supply

Environmental Specifications

	Operating	Storage
Temperature	50-95°F / 10-35°C	-40-149°F / -40-65°C
Relative Humidity	20-80% (noncondensing, twmax=29C)	5-95% (noncondensing, twmax=38C)
Maximum Humidity Gradient	10% per hour	10% per hour
Altitude	-50 ft to 10,000 ft (-16 to 3,048 m)	-50 ft to 35,000 ft (-16 to 10,600 m)
Vibration	0.26 Grms at 5-350 Hz for 2 mins	1.54 Grms at 10-250 Hz for 15 mins
Shock	1 shock pulse of 41G for up to 2ms	6 shock pulses of 71G for up to 2ms

Regulatory Approvals

FCC (U.S. only) Class A, ICES (Canada) Class A

CE Mark (EN 55022 Class A, EN55024, EN61000-3-2, EN61000-3-3)

VCCI (Japan) Class A, BSMI (Taiwan) Class A, CCC (China) Class A, MIC (Korea) Class A

C-Tick (Australia/New Zealand) Class A

SABS (South Africa) Class A

UL 60950-1, CAN/CSA C22.2 No. 60950-1, EN 60950-1, IEC 60950-1



6455 Flying Cloud Drive : Eden Prairie, MN 55344-3305 : 1.866.472.6764 : www.xiotech.com

Xiotech, Magnitude, Magnitude 3D, and TimeScale are registered trademarks of Xiotech Corporation. Emprise, ISE, Dimensional Storage Cluster, DataScale, and GeoRAID are trademarks of Xiotech Corporation. Product names mentioned herein may be trademarks and/or registered trademarks of their respective companies.

©2008 Xiotech Corporation. All rights reserved. 070574-0908