FalconStor Software

Network Storage Server (NSS) Appliances

iSCSI storage with enterprise-class performance, reliability, and data protection

FalconStor® Network Storage Server (NSS) Appliances deliver fast, efficient, and easy-to-use iSCSI storage with enterprise-class virtualization, provisioning, and heterogeneous storage management to organizations of all sizes.

Highlights

> Simple, unified SAN storage provisioning

> Enterprise-class storage features: mirroring, snapshots, replication

> TOTALLY Open™ architecture connects storage across vendor barriers, protocols, and virtual server environments

> Supports all major open systems platforms, including Windows, Linux, Solaris, HP-UX, AIX, Netware, and more

> Certified for use with VMware and Virtual Iron virtual servers

> Supports InfiniBand (iSER) and Fibre Channel (FC) for a single, high-speed connection for both network and storage

> Thin Provisioning maximizes disk utilization while reducing storage costs and power consumption

> Centralized management console

> Encrypted, compressed Replication option for remote disaster recovery (DR)

> Application-aware Snapshot Agents, including Microsoft Windows certified agents, ensure 100% transactional integrity

> Integrated Microsoft Exchange and Lotus Notes message recovery

> Microsoft VSS-compliant

> Integrated with Oracle RMAN, ASM

vmware® CERTIFIED

Microsoft GOLD CERTIFIED Partner

Advanced Infrastructure Solutions
ISV/Software Solutions

Cost-effective storage

FalconStor NSS Appliances are plug-and-play SAN storage appliances that are ideal for small-to-medium businesses (SMBs) and enterprise remote offices. Features such as iSCSI support, internal SATA drives, compression, and Thin Provisioning keep costs down while data protection technology ensures data is secure and readily available.

Thin Provisioning for effective disk utilization

FalconStor NSS Appliances offer storage virtualization and Thin Provisioning, which allocates physical storage space on an as-needed basis, using less physical storage than what is represented by virtual disks. This maximizes disk utilization efficiency while reducing storage costs and power consumption.

100% transactional integrity for application data

With FalconStor NSS, applications are protected with 100% transactional integrity. Built-in FalconStor TimeMark® technology communicates with Snapshot Agents on the application hosts to ensure that snapshots are transactionally consistent, for simple, instant recovery. FalconStor Snapshot Agents are available for major enterprise applications, including Microsoft Exchange, Microsoft SQL Server, Oracle, VMware, and others.

Maximum availability

Two FalconStor NSS Appliances can be interconnected for mirroring and active/active failover, ensuring high availability (HA) operations. All models include synchronous mirroring to protect data in any configuration, even across disk arrays.

Easy data migration with no downtime

Using synchronous mirroring, FalconStor NSS provides zero-downtime data migration between separate storage arrays. This feature is extremely useful when moving to new disk arrays as older models are decommissioned or coming off lease.

Affordable, reliable Thin Replication

With the FalconStor Replication option, data can be replicated across any distance via IP to same or dissimilar storage arrays. This ensures continuous business operations during site-level disasters. Reverse-replication is also supported, to return primary data from a DR site to a new or reconstructed primary site.

Replication uses patented FalconStor MicroScan™ technology, which detects changes at the sub-block level, reducing bandwidth requirements by as much as 70 to 90% compared with other similar solutions. This make offsite data protection an affordable reality for all organizations. For security, replication also includes data encryption.

Scalable, flexible packaging

FalconStor NSS Appliances are available as storage appliances with internal storage, or gateway appliances for use with external storage.

Specifications

	Models with internal storage			Models for external storage	
	NSS-S6	**NSS-S12**	**NSS-S24**	**NSS-G50**	**NSS-G250**
Physical Characteristics					
Form factor	2U	2U	5U	2U	2U
RAM included / maximum	8GB / 16GB	8GB / 16GB	8GB / 16GB	8GB / 32GB	8GB / 64GB
Internal drives	6	12	24	2 (OS only)	2 (OS only)
RAID level	5	6	6	1	1
Capacity, maximum (raw, internal)	6TB	12TB	24TB	—	—
Capacity included (external)	—	—	—	20TB	250TB
Capacity, maximum (external)	—	—	—	50TB	250TB
Host Connections					
iSCSI support	Included	Included	Included	Included	Included
Fibre Channel (FC) support	Optional	Optional	Optional	Included	Included
4Gb Dual Port FC HBAs included	Optional	Optional	Optional	2	2
4Gb FC target / initiator ports	Optional	Optional	Optional	2 / 2	2 / 2
1Gb Ethernet ports	4	4	4	4	4
Advanced Features					
Centralized Console	Included	Included	Included	Included	Included
Supports Easy Setup	Included	Included	Included	Included	Included
Virtual Storage	Included	Included	Included	Included	Included
Thin Provisioning	Included	Included	Included	Included	Included
Service Enabled Storage	—	—	—	Included	Included
High Availability (shared storage)	—	—	—	Included	Included
High Availability (cross-mirrored storage)	Included	Included	Included	—	—
TimeMark snapshots per LUN	255	255	255	255	255
Replication (continuous or periodic) with compression and encryption	Optional	Optional	Optional	Optional	Optional

Snapshot Agents are available for the following environments: Microsoft Windows: Microsoft Exchange Server, Microsoft SQL Server, IBM Lotus Domino, Oracle, Sybase, Informix, IBM DB2, SAP, Pervasive SQL, Microsoft Volume Shadow Copy Service, Windows file systems — Linux: IBM Lotus Domino, Oracle, Linux file systems — Solaris: Oracle, Sybase, IBM Lotus Domino, Solaris file systems — AIX: Oracle, IBM DB2, Informix, IBM Lotus Domino, AIX file systems — HP-UX: Oracle, Sybase, HP-UX file systems.

About FalconStor

FalconStor Software, Inc. (NASDAQ: FALC), the premier provider of TOTALLY Open™ Network Storage Solutions, delivers the most comprehensive suite of products for data protection and storage virtualization. Based on the award-winning IPStor® platform, products include the industry-leading Virtual Tape Library (VTL) with Single Instance Repository (SIR) for deduplication, Continuous Data Protector™ (CDP), Network Storage Server (NSS), and Replication option for disaster recovery and remote office protection. Our solutions are available from major OEMs and solution providers and are deployed by thousands of customers worldwide, from small businesses to Fortune 1000 enterprises.

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