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Damon Robertson
Coolspirit Ltd

Our address

24 The Bridge Business Centre
Beresford Way
Chesterfield
S41 9FG

Get in touch

Call us on: 01246 454222
Email us: web@coolspirit.co.uk
Find us: [View location map](#)
Web: www.coolspirit.co.uk

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Network Storage Server (NSS) *300 Series Storage Appliances*

Modular SAN for virtualized servers

FalconStor[®] Network Storage Server (NSS) SA series appliances deliver cost-effective and easy-to-use iSCSI storage with comprehensive data protection features optimized for virtual server provisioning.

Highlights

- > Mirroring, snapshots, replication
- > Supports all major open systems platforms, including Microsoft Windows, Linux, Solaris, HP-UX, AIX, Netware, and more
- > Supports VMware Site Recovery Manager
- > WAN-optimized replication with compression and encryption for fast, efficient remote disaster recovery (DR)
- > Thin Provisioning maximizes disk utilization while reducing storage costs and power consumption
- > Application-aware snapshot agents, including Microsoft Windows certified agents, ensure 100% transactional integrity
- > Integrated Microsoft Exchange and Lotus Notes message recovery

Many small and medium businesses (SMBs) are upgrading from existing direct attached storage (DAS) to shared storage solutions, driven by the adoption of server virtualization technologies such as VMware and Microsoft Hyper-V. FalconStor NSS SA series appliances are ideal SAN solutions for such organizations. With its modular design, FalconStor NSS allows users to grow capacity by adding expansion shelves and provisioning Fibre Channel (FC) connectivity when needed. Equipped with all the same software features designed for enterprises, the FalconStor NSS SA series offers an exceptional price/performance ratio for the storage requirements of today's SMB.

Virtualized storage optimized for VMware environments

FalconStor NSS enables local and remote data recovery scenarios in VMware environments by integrating with key VMware features and processes. The FalconStor Application Snapshot Director (ASD) agent coordinates between FalconStor NSS, VMware vCenter Server, and FalconStor snapshot agents in virtual machines to guarantee transactional consistency at the application layer whenever a snapshot is taken. For remote protection, FalconStor NSS supports VMware Site Recovery Manager to simplify backup and recovery by eliminating complex manual steps and centralizing management of recovery plans including the storage layer.

Thin Provisioning for effective disk utilization

FalconStor NSS SA series appliances can create virtual data volumes using 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 and limits data volume management overhead while reducing storage costs and power consumption.

Application-aware snapshot agents for reliable recovery

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

WAN-optimized replication for fast, efficient DR

FalconStor NSS solutions offer IP-based WAN-optimized replication, which includes encryption for security and compression for reduced bandwidth consumption. WAN-optimized replication uses patented MicroScan[™] technology from FalconStor, which detects data changes at the sub-block level, reducing bandwidth consumption by as much as 99%.

With WAN-optimized replication, data can be replicated across any distance via IP to the same or dissimilar storage arrays. This ensures continuous business operations during site-level disasters through remote data protection. Failback automation is also supported, to synchronize data to the primary site in order to bring the primary site up to date.



Specifications

NSS SA301 NSS SA302 NSS SA303 NSS SA306 NSS XM504 NSS XM506 NSS XM507 NSS XM515

Physical Characteristics								
Base form factor	2U				Expansion unit			
Number of controllers					Single			
Appliance type					Storage			
RAM included	8GB							
RAID level	5							
Base capacity (raw)	1.8TB	2.7TB	3TB	6TB				
Disk type	300GB SAS	450GB SAS	500GB SATA	1TB SATA	4.5 TB SAS	6.7 TB SAS	7.5 TB SATA	15TB SATA
Maximum capacity w/ expansion	6.3TB	9.4TB	10.5TB	21TB				
CPU cores					4			
Dimension	Controller: 29.31 x 17.5 x 3.4" (74.4 x 44.43 x 8.64 cm) Expansion: 18.9 x 17.57 x 5.16 (48.01 x 44.63 x 13.11 cm)							
Weight	Controller: 50.71 lbs (23 kg), maximum configuration Expansion: 78 lbs (35.37 kg), maximum configuration							
Power supply	Controller: Two hot-plug 870W PSUs (1+1) Expansion: 488 W maximum continuous; 550 W peak, 100-240 V rated (actual 90-264 V)							
BTU					1200			
Temperature	Operating: 50° to 95°F (10° to 35°C) Storage: -40° to 149°F (-40° to 65°C)							
Relative humidity	Operating: 20% to 80% (non-condensing) Storage: 5% to 95% (non-condensing)							
Altitude	Operating: -50 to 10,000 ft (-16 to 3048 m) Storage: -50 to 35,000 ft (-16 to 10,600 m)							
Host Connections								
iSCSI support					Included			
GbE ports					4			
FC support					Optional			
4Gb dual port FC HBAs (included with FC option)					1			
Advanced Features								
Virtual storage					Included			
Thin Provisioning					Included			
Data mirroring					Included			
Snapshots (TimeMark/TimeView®) per LUN	256 plus snapshot agents for Microsoft Windows/Linux							
Support for VMware Site Recovery Manager					Included			
Replication (continuous or periodic) with compression and encryption					Included			
Email alerts					Included			
Centralized client management					Included			

Snapshot agents are available for the following environments: Microsoft Exchange Server, Microsoft SQL Server, Microsoft VSS, IBM DB2, IBM Informix, Lotus Notes/Domino, Oracle, Sybase, MySQL, Ingres, SAP, Novell GroupWise, Pervasive.SQL, SAP MaxDB, and VSS, as well as file systems (Linux, HP-UX, Solaris, AIX, Microsoft Windows, Novell NetWare).

