

Datasheet

FalconStor Network Storage Server (NSS) Gateways 7.x

VIRTUALIZE EXISTING STORAGE FOR CAPACITY OPTIMIZATION & BUSINESS CONTINUITY

Midmarket and enterprise organizations depend on data availability while wrestling with the data protection challenges associated with explosive data growth. The FalconStor® Network Storage Server (NSS) Gateway ensures the availability of critical business applications by leveraging an organization's existing storage investments. This all-inclusive gateway provides storage virtualization and efficient capacity utilization, as well as simple, centralized management. Features include thin provisioning, mirroring, performance tiering, data migration, WAN-optimized replication, and application-consistent snapshot functionality. In addition, FalconStor NSS Gateways automate P2P, P2V, and V2V recovery, for fast, granular data recovery and protection. Heterogeneous support ensures cost-effectiveness and business continuity without vendor lock-in.



FalconStor®

Features and benefits

Main features	Benefits
All-inclusive functionality	<ul style="list-style-type: none">■ Scales from 1TB to hundreds of terabytes per FalconStor NSS Gateway
Heterogeneous support	<ul style="list-style-type: none">■ Supports iSCSI, FC, and FCoE connectivity■ Utilizes heterogeneous third-party storage
Mirror volumes, up to 1,000 snapshots	<ul style="list-style-type: none">■ Enables highly granular recovery points■ Data assurance and business continuity
Thin provisioning	<ul style="list-style-type: none">■ Enables efficient management of existing capacity■ Simplifies administration■ Increases utilization of disk capacity■ Reduces capital expenditures (CapEx)
Data tiering	<ul style="list-style-type: none">■ Populates data on appropriate disk volumes: Nearline SAS, SAS, Fibre Channel (FC), solid-state disk (SSD)
Data migration	<ul style="list-style-type: none">■ Easily moves data volumes between tiers or SANs
WAN-optimized replication via MicroScan™ technology	<ul style="list-style-type: none">■ Reduces bandwidth requirements by up to 95%■ Enables rapid disaster recovery
Automated disaster recover via RecoverTrac™ tool	<ul style="list-style-type: none">■ Automates complex application recovery and disaster recovery testing■ Supports P2P, P2V, and V2V recovery
Optimized I/O performance	<ul style="list-style-type: none">■ Accelerates storage performance for mission-critical applications■ Alternate-READ mirror volumes eliminate I/O bottlenecks■ HotZone® and SafeCache™ technologies improve READ/WRITE performance
Microsoft Stretch Cluster support	<ul style="list-style-type: none">■ Certified for Microsoft GeoCluster
VMware integration	<ul style="list-style-type: none">■ Certified for VMware vCenter Site Recovery Manager 5■ Supports VMware VAAI

Technical details

Physical Characteristics	NSS Entry	NSS Standard	NSS Enterprise
Form factor		2U rackmount	
Processor	2 x Intel Xeon E5-2643 4C/8T 3.30 GHz 10 MB		
Memory	48 GB (6 x 8 GB) 2Rx4 L DDR3-1600 R ECC		
Power supply	2 x hot-plug high output 450W		
Power source	100-240 VAC, auto-ranging, 47-63 Hz		
Dimensions (HxWxL)	482.6 mm (Bezel) / 445mm (Body) x 770 x 86,9 mm		
Weight (maximum configured)	Up to 25 kg		
Further information about PRMERGY server	http://www.fujitsu.com/fts/products/computing/servers/primergy/rack/rx300/		
NICs for Management and HA	4 x 1 Gbit/s Ethernet		
Supported Configuration			
Included storage capacity license	4 TB	-	-
Max. usable storage capacity	15 TB	unlimited	unlimited
Allowed Target I/O Ports	6 ports 1Gb/s iSCSI	4 ports 1Gb/s iSCSI	6 ports 1Gb/s iSCSI
	4 ports 10Gb/s iSCSI	-	4 ports 10Gb/s iSCSI
	8 ports 8Gb/s FC	2 ports 8Gb/s FC	8 ports 8Gb/s FC
- Note	Target ports communicate in direction of the Host Servers		
Allowed Initiator I/O Ports	unlimited		
- Note	Initiator ports communicate in direction of the Storage Systems.		
Configuration information	Limit is what is physically allowed in PRIMERGY RX300 S7 The maximal configurable I/O Adapter is defined by the PRIMERGY server. The distribution of the needed I/O Target and Initiator Ports can be done as required.		
Environmental Requirements			
Heat output	2,891 BTU/hr		
Temperature	50° to 95° F (10° to 35° C)		
Relative humidity	20 to 80 % non-condensing with maximum gradation of 10 % per hour		
Altitude	-50 to 10,000 ft (-16 to 3,048 m)		
Released ETERNUS DX disk storage systems	See the FalconStor Systems Compatibility HCL: http://www.falconstor.com/certification-matrix/disk-storage-devices		
Software Features			
High availability	Yes (two FalconStor NSS nodes required)		
Application-aware snapshot agents	Windows and Linux		
- Note	Additional Client Pack License required for Solaris, HP-UX and AIX		
Application Snapshot Director for VMware	Yes		
Snapshots (TimeMark®/TimeView®) per LUN	Up to 1,000		
Recovery agent	Yes		
Automated disaster recovery	Via RecoverTrac tool for P2P, P2V, V2P or V2V recovery		
DynaPath® Agent	For Microsoft Windows or Linux native multipathing		
Storage Replication Adapter	For VMware Site Recovery Manager		
Multisite Cluster Adapter for Microsoft Windows	Yes		
SafeCache™/HotZone™	Yes		
Data journaling	Yes		
Thin provisioning	Yes		
Synchronous & asynchronous data mirroring	Yes		
WAN-optimized replication w/ compression & encryption	Yes		
SNMP integration	Yes		
Email alerts	Yes		
Reporting	Yes		

Software Features

Central Client Manager (CCM)	Yes
HyperTrac™ Backup Accelerator	For VMware For Windows or Linux For Solaris, HP-UX or AIX (includes AutoLVM, Snapshot Agent and Dynapath)
- Note	Optional License required
Client Pack	For Solaris, HP-UX or AIX (Includes AutoLVM, Snapshot Agent and Dynapath)
- Note	Optional License required

Manageability with ServerView Suite

Interface	SNMP
Host operating system	NSS 7.x (RHEL 6.4 ServerView Agent)
Configuration and Management of RAID controller in server	ServerView RAID
Remote access	Onboard Integrated Remote Management Controller (IRMC), Remote Management Controller (RMC), Baseboard Management Controller (BMC), Remote Service Board (RSB)

Conditions

Capacity-based licensing	1TB logical storage capacity requires 1 TB of NSS capacity license
- Note	1 TB of mirrored data will require 2TB of capacity license
License information	FalconStor NSS License is bound to the underlying PRIMERGY server and can NOT be transferred to other Hardware.
FalconStor conditions	As set forth in the EULA of the FalconStor software http://www.falconstor.com/support-and-services/support-and-services-overview/end-user-license-agreement

Support

Support requirements	Installation must be done by a FalconStor-certified Professional Two node HA Installations have to be validated from FalconStor Support Team (additional cost)
Support Terms and Conditions	http://ts.fujitsu.com/services/maintenance_support/software_services.html
Support Pack	First level support services from local PRIMERGY Hotline
Software upgrade rights	In the first 5 years after purchase, customers may upgrade NSS Software if: - a valid Support Pack from FTS exists (seamless from day one) - the new FalconStor Software version is supported on the PRIMERGY Hardware

Warranty

Class	C
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More information

Fujitsu platform solutions

In addition to FalconStor Network Storage Server (NSS) Gateways, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing products

www.fujitsu.com/global/services/computing/
- PRIMERGY: Industrial standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical IA server
- ETERNUS: Storage system

Software

www.fujitsu.com/software/
- Interstage: Application infrastructure software
- Systemwalker: System management software

More information

Learn more about FalconStor Network Storage Server (NSS) Gateways, please contact your Fujitsu sales representative, Fujitsu business partner, or visit our website. www.fujitsu.com/eternus

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at: www.fujitsu.com/global/about/environment/



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