



OPTIMIZED BACKUP & DEDUPLICATION STORAGE APPLIANCE

MANAGE EXPLOSIVE DATA GROWTH WHILE REDUCING THE COST OF LOCAL STORAGE, OPERATIONS, & DISASTER RECOVERY

The FalconStor® Optimized Backup and Deduplication solution replaces or enhances tape backup with disk-based backup and integrated deduplication. By combining interfaces for NAS and VTL while increasing performance, it can reduce capacity requirements, minimize costs, and allow you to retain more data online longer, while also securing data at rest, in flight, and from unwanted user access. Available as scalable, preconfigured turnkey appliances, the FalconStor Optimized Backup and Deduplication solution offers fast, reliable local backup and restore, as well as remote disaster recovery (DR) for data assurance. With features such as simplified, centralized management, WAN-optimized cascaded replication, and seamless tape integration, these appliances help you meet stringent service-level agreements (SLA) while enabling data growth management and cost containment.



HIGHLIGHTS

GLOBAL DEDUPLICATION

- Up to 95% data reduction
- Minimizes costs: power, cooling, floor space, IT resources
- Extends local disk retention for fast data recovery
- Flexible policies: Inline, post-process, concurrent, or no deduplication

WAN-OPTIMIZED CASCADED REPLICATION

- Simultaneous & parallel cascaded replication maximizes data availability
- Shrinks network requirements by up to 95%
- Eliminates tape transport
- Enables tape consolidation at disaster recovery (DR) site
- Supports Fibre Channel (FC) for high-performance DR
- Optimized multi-threaded architecture for increased scalability & resilience

BEST-OF-BREED TAPE MANAGEMENT

- Bridges disk & tape for physical tape creation
- Policy-based to meet retention & archive requirements
- recognizes and supports the worm tape format, so it will not mistakenly overwrite worm backup data.

12TB TO 3.75PB USABLE CAPACITY

- Protects up to 75PB of original data*
- RAID protection and hot spares with integrity checks assures data access
- Easily deployable storage expansion upgrades
- All-inclusive capacity-based pricing
- 32Gb FC & 1/10GBE iSCSI IP
- Accelerates data protection operations, reducing backup windows
- Boosts recovery performance without backup or process changes

INTEGRATED SECURITY

- Control how long a user account stays active
- Prevent unwanted access with password lockouts
- Require complex passwords for the highest level of security

256-BIT AES ENCRYPTION

- Secures data in flight and at rest*
- Enhances corporate security through tape encryption & shredding

EMULATES OVER 50 TAPE LIBRARIES & 30 TAPE DRIVE FORMATS

- Seamless integration, no backup or process changes
- Dynamic resource allocation: 128 virtual libraries, 1,024 virtual drives, 1,000,000 virtual tapes

MIXED ENVIRONMENTS

- Enhances deduplication efficiency
- Open systems (Microsoft Windows, UNIX, Linux)
- Single deduplication repository supports any combination of backups, archives, database dumps, virtual environments
- IBM System i (iSeries), NDMP

NETBACKUP OPENSTORAGE (OST) INTEGRATION

- Direct to tape for NAS & virtual tape
- Transparent data replication
- Copy-to-tape
- Catalog consistency
- Optimized NetBackup OST APIs

PRODUCT SPECS

OPTIMIZED BACKUP & DEDUPLICATION

10.0



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MIDMARKET / ENTERPRISE

PHYSICAL CHARACTERISTICS		VTLGA 870		VTLGA 970
Appliance type	VTLS Gateway			
Form factor	2U	2U	3U	
Internal hard drives*	2 x 900GB SAS	2 x 900GB SAS	2 x 900GB SAS	
Max. usable capacity per node (or HA)	Up to 3.75PB	Up to 3.75PB	Up to 3.75PB	
Max. logical storage capacity per node* : Usable	Up to 5PB	Up to 5PB	Up to 12PB	
Max. Inline sustained ingest speed*	Up to 40TB/hr			
Power supply	2 x hot-plug auto-switching 750W, 1100W		4 x hot-plug auto-switching 1100W, 1600W	
Dimensions (W x D x H)	17.08 x 28.17 x 3.42 in (43.4 x 71.5 x 8.68 cm)		17.08 x 30.6 x 5.16 in (43.4 x 77.7 x 13.1 cm)	
Weight	2.5" Bay : 57.98 lb (26.3 kg), 3.5"Bay : 63.05lb (28.6kg)		105 lb (47.6 kg)	
HOST CONNECTIONS				
Ethernet support - 1Gb/s	Up to 4 ports on NDC	Up to 2 ports on NDC	Up to 4 ports on NDC	
Ethernet support - 10Gb/s	-	Up to 2 ports on NDC	-	
FC support	Included			
16Gb FC ports	Up to 14 ports	Up to 14 ports	Up to 24 ports	
Available host expansion port interface cards: Dual ports 16Gb/s FC HBA & dual ports 10Gb/s NIC	7 full-height & 1 half-height expansion slots	7 full-height & 1 half-height expansion slots	7 full-height & 6 half-height expansion slots	
Netbackup OST (FC,IP)	Included			
ADVANCED FEATURES				
Clustered HA	Included			
VTLS/drives/cartridges	128/1,024/1,000,000			
ACSLS shared library	Optional			
IBM System i (iSeries), IBM 3494	Optional			
Additional features	Email alerts, import/export, NDMP backup, WAN-optimized replication w/ encryption & compression, Secure Tape, tape caching, tape duplication, tape shredding, tape stacking			
ENVIRONMENTAL REQUIREMENTS				
Voltage	100-240 VAC, autoranging, 50-60Hz			
BTU/hr	750W= 2,891 / 1100W=4,100 / 1600W=6,000			
Temperature	Operating: 50°F to 95°F (10° to 35°C)			
Relative humidity	Operating: 10% to 80% relative humidity with 29°C (84.2°F)			
Altitude	Operating : 10,000 feet (3,048 meters)			
*Please contact FalconStor before enabling encryption at rest technology. All capacity and performance numbers are based on a 20:1 deduplication ratio.				

* Please see the Certification Matrix for all server hardware supported. Hardware support includes, but is not limited to:

- FalconStor VTL GA870 and Hitachi G350/G400/E590
- FalconStor VTL GA870 and Seagate 5005 Series Storage System
- FalconStor VTL GA870 and Dell ME5 Series Storage System

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