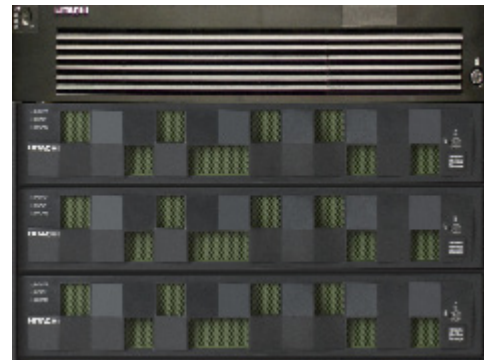


Virtual Tape Library (VTL)

HIGH-PERFORMANCE BACKUP AND RESTORE WITH DEDUPLICATION

FalconStor has teamed up with Hitachi to offer preconfigured turnkey scalable deduplication appliances that address the challenges of tape backup. The FalconStor® Virtual Tape Library (VTL) solution integrated with Hitachi Unified Storage and Hitachi servers offers fast, reliable local backup and restore, along with remote disaster recovery (DR). This provides critical advantages such as data assurance, seamless tape integration, and simplified management. FalconStor VTL appliances enhance legacy tape backup with disk-based backup and integrated deduplication, reducing capacity requirements, minimizing operational costs, and allowing organizations to retain more data online longer. With features such as WAN-optimized replication and physical tape support, this solution helps organizations meet stringent service-level agreements (SLA) while enabling data growth management, business continuity, and cost containment.



Highlights

Global deduplication maximizes ROI

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

WAN-optimized replication

- Reduces network requirements by 90% or more
- Eliminates tape transport
- Enables tape consolidation at disaster recovery site
- Supports Fibre Channel (FC) for high-performance disaster recovery
- Optimized multi-threaded architecture for increased scalability and resilience
- Automated remote tape export

256-bit AES encryption

- Secures data in flight
- Enhances security through tape encryption and shredding

5TB to 135TB usable storage capacity*

- Protects up to 2.7PB* of original data
- RAID protection and hot spares with integrity checks assures data access
- Easily deployable storage expansion
- All-inclusive capacity-based pricing

8Gb FC & 1/10GbE iSCSI

- Accelerates data protection operations, reducing the backup window
- Boosts recovery performance without backup or process changes

Best-of-breed tape management

- Bridges disk and tape for physical tape creation
- Policy-based to meet retention & long-term archive requirements

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, 250,000 virtual tapes

Mixed environments

- Enhances deduplication efficiency
- Open systems (Microsoft Windows, UNIX, Linux)
- IBM System i (iSeries), NDMP

Symantec OpenStorage (OST) integration

- Transparent data replication
- Copy-to-tape
- Catalog consistency
- Optimized Symantec OST APIs

Implementation services

- Hitachi Global Solution Services and FalconStor Professional Services
- Accelerated deployment aligned with business objectives
- Includes appliance deployment, IP replication, tape caching, Symantec OST integration
- Custom services include FC replication, backup assessment and optimization, and data migration

HITACHI GLOBAL SOLUTION SERVICES: OPTIMIZING BACKUP AND DEDUPLICATION IMPLEMENTATIONS

Hitachi Global Solution Services experts provide deployment services aligned with customers' backup environments and business requirements. Our experienced consultants optimize the implementation experience, streamlining deployment time while minimizing risks and downtime. Services include:

- Deployment of FalconStor software-based appliances
- Standard deployment services including IP replication, tape caching, and Symantec OST integration
- Custom consulting services including FC replication, backup assessment and optimization, and data migration

SPECIFICATIONS

HDS-FS-VTL-S-220S

HDS-FS-VTL-S-H130

Physical Characteristics		
Deduplication usable storage capacity*	17TB	30TB-135TB
Sustained performance (inline deduplication)*	5TB/hr	5TB/hr
Number of servers/nodes	1	1
HUS model	—	130
Total cache in HUS unit	—	8GB
Disk type	SAS	SAS
Number of HDS racks (42U)	—	1
Total rack space used	2U	8-24U
Dimensions (HxWxL)	19.05 x 29.25 x 3.43 in (484 x 743 x 87 mm)	19.37 x 30.59 x 3.43 in (492 x 777 x 87 mm)
Hot-plug hard drives (OS)	—	2
Power supply	Redundant hot-plug auto-switching 800W	
Host Connections		
Ethernet support - 1Gb/s	4 ports	4 ports
Ethernet support - 10Gb/s	Optional	Optional
FC support - 8Gb FC	2 ports	4 ports
Symantec OST FC	Included	
Host expansion port interface cards: 4 x 1GbE ports; 2 x 8Gb/s FC ports; 2 x 10GbE ports	—	1 expansion slot
Advanced Features		
VTLs/drives/cartridges	128/1,024/250,000	
ACSLs shared library	Optional	
IBM System i (iSeries) support	Optional	
IBM 3494 library support	Optional	
Additional features	Deduplication, email alerts, import/export, NDMP backup, WAN-optimized replication w/ encryption & compression, Secure Tape, Symantec OST (FC), tape management (caching, duplication, consolidation, shredding, stacking)	
Environmental Requirements		
Voltage	100–120 VAC ± 10% (50/60 Hz), 200–240 VAC ± 10% (50/60 Hz)	
Temperature	50° to 95°F (10° to 35°C)	
Relative humidity	20% to 80% (noncondensing)	

*All capacity and performance numbers are based on a 20:1 deduplication ratio.

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