

## Virtual Tape Library (VTL) 300 Series Storage Appliances

Cost-effective backup and restore with deduplication for small-to-medium businesses

*FalconStor® Virtual Tape Library (VTL) 300 Series Storage Appliances bring market-leading virtual tape library (VTL) technology to small-to-medium businesses (SMBs). Easy to implement, these appliances alleviate the challenges of traditional tape backup, offering built-in data deduplication and replication for storage optimization, bandwidth efficiency, and cost-effective disaster recovery (DR).*

### Highlights

#### SMB data protection

- > Fully configured turnkey appliances offer 4TB to 18TB of capacity, field expandable to 32TB
- > 95% data reduction for up to 640TB of logical storage capacity
- > Extends local disk retention for fast data recovery
- > Non-disruptive integration with existing tape backup environments and processes

#### High performance

- > 8Gb Fibre Channel (FC) and iSCSI (1GbE and 10GbE) connectivity
- > Flexible post-process or concurrent deduplication

#### Seamless implementation

- > Support for open systems (Microsoft Windows, Unix, Linux, NetWare, Mac), Symantec OST, IBM iSeries, HP NonStop (Tandem), and mainframes
- > Bridges disk and tape through best-of-breed tape management for physical tape creation

#### Cost-effective DR

- > WAN-optimized replication reduces network bandwidth requirements by as much as 99%
- > Integrated Symantec OST support for transparent data replication, copying-to-tape, and catalog consistency

The rapid growth of business data continues to impact backup and recovery operations. Traditional tape backup has become increasingly difficult to accomplish within today's narrowing backup windows. Ineffective tape backup procedures leave data vulnerable, and physical tape transport often makes data recovery lengthy and ineffective.

The FalconStor VTL 300 Series is a family of preconfigured turnkey storage appliances that help SMBs overcome the challenges associated with tape backup, reducing capacity requirements by as much as 20 times (95%) or more. FalconStor VTL offers fast backup, data deduplication, replication, integration with Symantec NetBackup OpenStorage (OST), and best-of-breed tape management in a single solution.

### Improve performance without operational changes

By emulating over 50 tape libraries and 30 tape formats, FalconStor VTL fits easily into any backup environment. Backups immediately become faster and more reliable with little or no change needed to daily operations. FalconStor VTL enables the creation of multiple virtual tape drive targets, eliminating the need to queue backup jobs or manage the complexity of tape drive sharing.

Because many companies require both disk and tape for tiered backup and archive/compliance needs, FalconStor VTL seamlessly bridges disk and tape through best-of-breed tape management capabilities such as tape caching and policy-based archiving.

### Deduplication extends data retention, maximizes ROI

Integrated data deduplication and compression eliminates redundant backup data by as much as 95%. Deduplication can be performed concurrently with backup or after backup completes, to optimize storage efficiency without affecting the backup window. This allows far more data to be retained on disk, extending local recovery capabilities without the reliability concerns of tape-based restore. FalconStor VTL 300 Series appliances offer from 4TB to 18TB of physical, RAID protected usable capacity corresponding to between 80TB and 640TB of logical repository, based on an average 20:1 deduplication ratio. Each member of the FalconStor VTL 300 Series can scale from the base storage up to 32TB using easy-to-install field expansion storage arrays.

### WAN-optimized replication for multi-site DR

Built-in WAN-optimized replication ensures that only globally unique blocks of data are transmitted, reducing bandwidth requirements by as much as 99% and enabling tape consolidation at a central site. Multi-site replication eliminates tape management costs and the risks of lost or stolen tapes during transport, while encryption ensures security during transmission. Tight integration with Symantec OST offers high-performance backup, a single point of management, transparent data replication, and copy-to-tape capabilities while maintaining catalog consistency.

### A cost-effective backup solution

By keeping more data on disk, FalconStor VTL significantly reduces tape media consumption. Deduplication optimizes storage resources, reducing power, cooling, and floor space requirements. Lastly, by eliminating complete reliance on tape, FalconStor VTL reduces the cost of downtime through fast local or remote data restore.



# Specifications

VTL SA304

VTL SA307

VTL SA311

VTL SA318

Physical Characteristics				
Form factor	2U	5U	5U	5U
Appliance type	Storage	Storage	Storage	Storage
Hot plug hard drives	6	21	21	21
RAID level	6	6	6	6
Disk type	SATA	SATA	SATA	SATA
Repository capacity - usable	4TB	7.5TB	11TB	18TB
Logical storage capacity (based on 20:1 dedupe ratio)	80TB	150TB	220TB	360TB
Repository scalability	Up to 32TB (add up to 28TB with expansion arrays)	Up to 32TB; software key upgrade to 11TB, no added hardware (add up to 25TB with expansion arrays)	Up to 32TB (add up to 21 TB with expansion arrays)	Up to 32TB (add up to 14TB with expansion arrays)
Ingest speed	230 MB/s	500 MB/s (1.8 TB/hr)	500 MB/s (1.8 TB/hr)	500 MB/s (1.8 TB/hr)
Power supply	Redundant hot-plug auto-switching (870W)			
Dimensions: head (HxWxL)	3.4 x 17.44 x 26.8" (8.64 x 44.31 x 68.07 cm)			
Dimensions: storage array (HxWxL)	N/A	5.16 x 17.57 x 18.9" (13.11 x 44.63 x 48.01 cm)		
Weight	57.54 lb (26.1 kg)	135.54 lb (61.48 kg)	135.54 lb (61.48 kg)	135.54 lb (61.48 kg)
Host Connections				
iSCSI support - 1 Gb/s	4 ports	4 ports	4 ports	4 ports
iSCSI support - 10 Gb/s	Optional	Optional	Optional	Optional
FC support	Included	Included	Included	Included
8Gb FC	2 ports	2 ports	2 ports	2 ports
Symantec NetBackup OST (FC/IP)	Included	Included	Included	Included
Host expansion port interface cards: 4x1GbE ports; 2 x8 Gbps FC ports; 1x 10 GbE port	1 expansion slot	1 expansion slot	1 expansion slot	1 expansion slot
Capabilities				
Virtual tape libraries/drives/cartridges	128/1024/65536	128/1024/65536	128/1024/65536	128/1024/65536
Deduplication	Included	Included	Included	Included
NDMP	Included	Included	Included	Included
Hosted backup	Included	Included	Included	Included
Replication with encryption	Included	Included	Included	Included
Tape caching	Included	Included	Included	Included
Secure tape	Included	Included	Included	Included
Tape duplication	Included	Included	Included	Included
Tape consolidation	Included	Included	Included	Included
ACSLs shared library	Optional	Optional	Optional	Optional
IBM iSeries support	Optional	Optional	Optional	Optional
IBM 3494 library support	Optional	Optional	Optional	Optional
Environmental Requirements				
BTU	2969 BTU/hr max (high output), 1945 BTU/hr max (energy smart)			
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% (noncondensing) with maximum gradation of 10% per hour			
Altitude	-50 to 10,000 feet (-16 to 3,048 meters)			

Note: "MB" is defined as 1024 x 1024 bytes, "GB" is defined as 1000MB, and "TB" is defined as 1000GB.

For more information, visit [www.falconstor.com/VTL](http://www.falconstor.com/VTL) or contact your local FalconStor representative.

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