

Virtual Tape Library (VTL) Appliances

FalconStor® Virtual Tape Library (VTL-series) appliances leverage the protection power of disk to solve the backup/restore issues associated with physical tape. Based on the industry-leading FalconStor® VTL technology adopted by many major storage providers, these appliances seamlessly integrate into existing storage environments without requiring operational changes. Virtual tape cartridges can be securely replicated to a remote appliance for disaster recovery (DR), and exported to physical tape for long-term vaulting, all without jeopardizing backup windows.

Highlights

- > Greater reliability of backup/restore by eliminating media/mechanical errors
- > Remote replication of virtual tapes for DR and electronic vaulting
- > Greater performance by eliminating tape loading and positioning times. No requirement for data streaming.
- > High-speed export to physical tape for archiving with increased media life
- > Easy to deploy: Integrates seamlessly with existing backup software/policies
- > Minimize capital investment through virtualization
- > Operates seamlessly with FalconStor continuous data protection (CDP) solutions to eliminate the backup window
- > Integrates with FalconStor Single Instance Repository (SIR) for redundant data elimination
- > Maximum data protection, including RAID-6 double parity on models with internal storage
- > Product available as a VTL Storage Appliance with embedded de-duplication
- > Product available as a VTL Virtual Appliance for VMware users

Maximum backup speed and reliability

Using Fibre Channel (FC) or iSCSI protocols, VTL appliances transfer data to/from disk-based virtual tapes at ultra-high speeds for fast backup and reliable recovery. Advanced encryption secures data when replicating virtual tapes to another site and when exporting to physical tapes.

Maximum storage and bandwidth economies

The optional Single Instance Repository (SIR) feature de-duplicates data offline after backup jobs complete, drastically reducing storage and bandwidth requirements without jeopardizing backup windows.

Advanced features

ACSLs Shared Library

Enables a FalconStor VTL appliance to work with ACSLS-managed tape libraries, allowing the system to share ACSLS-managed libraries among the VTL appliance and backup servers for the purpose of importing/exporting virtual tapes from/to physical tapes.

Automated Tape Caching

Allows users to set up policies that will trigger the export to physical tape automatically based on criteria such as the number of days that the data has been on the virtual tape or the amount of free space.

Hardware Compression

Hardware-only option that provides the appliance with a hardware accelerator board. This compresses files so that more data can be stored by a virtual tape drive, saving disk space.

High Availability (Failover)

Enables an active-active failover configuration of two appliances. Should one appliance fail, the other automatically assumes the failed appliance's workload without operator intervention.

Hosted Backup Support

Allows certified backup applications to be installed directly onto the VTL appliance,

eliminating the need for a dedicated backup server.

IBM 3494 Library Support

Enables a VTL appliance to connect to and manage IBM 3494 tape libraries for import/export of virtual tapes from/to physical tapes.

IBM iSeries Support (AS/400)

Allows IBM iSeries and AS/400 systems to connect to a VTL appliance.

NDMP Backup Support

Allows certified backup applications and industry-standard NAS appliances to perform backup/restore using the VTL NDMP protocol over an IP network.

Replication

Enables sites to send data changes across any distance via IP to same or dissimilar hardware for continuous business operations in case of site-level disasters.

SecureTape Option

Allows VTL to export data from virtual to physical tapes using the Advanced Encryption Standard (AES) format, preventing unauthorized access to data on the physical tapes and protecting against information theft.

Specifications

VTL-V3 VTL-S6 VTL-S12 VTL-S24 VTL-G10 VTL-G20 VTL-E50 VTL-E250

Physical Characteristics								
Form factor	—	2U	2U	5U	2U	2U	2U	2U
Internal drives	—	6	12	24	2 (OS only)	2 (OS only)	2 (OS only)	2 (OS only)
RAID level	—	RAID5	RAID6	RAID6	RAID1	RAID1	RAID1	RAID1
Maximum capacity (raw, internal)	—	4.5TB	9TB	18TB	—	—	—	—
Protected storage capacity (full backup)	—	1TB	2TB	4TB	—	—	—	—
De-duplication repository	—	2.5TB	5TB	10TB	—	—	—	—
Maximum capacity (external)	3TB	—	—	—	15TB	30TB	50TB	250TB
Protected storage capacity (full backup)	800GB	—	—	—	5TB	10TB	50TB	250TB
De-duplication repository	2TB	—	—	—	10TB	20TB	—	—
Equivalent storage capacity (based on 20:1 deduplication ratio)	40TB	50TB	100TB	200TB	100TB	200TB	—	—
Host Connections								
iSCSI support	Included	Included	Included	Included	Included	Included	Included	Included
1Gb/s Ethernet ports	4	4	4	4	4	4	4	4
Fibre Channel (FC) support	—	Optional	Optional	Optional	Included	Included	Included	Included
4Gb/s FC target ports	—	2	2	2	2	2	2	2
Advanced Features								
Virtual tape drives	16	16	32	64	64	64	64	1024
Virtual tape cartridges	1024	1024	2048	4096	4096	4096	8,000	64,000
Direct tape export	Included	Included	Included	Included	Included	Included	Included	Included
Automated tape caching	—	—	—	—	—	—	Included	Included
Enterprise library support (Sun ACSLS, IBM 3494)	—	—	—	—	—	—	—	Optional
High Availability (shared storage)	—	—	—	—	—	—	Included	Included
Replication with compression and encryption	Optional	Optional	Optional	Optional	—	—	Optional	Optional

About FalconStor

FalconStor Software, Inc. (NASDAQ: FALC) delivers proven, comprehensive data protection solutions that facilitate the continuous availability of business-critical data with speed, integrity, and simplicity. Our comprehensive solutions, based on the award-winning IPStor® virtualization platform, include the industry-leading VirtualTape Library (VTL) with Single Instance Repository (SIR) for de-duplication, Continuous Data Protection (CDP), Storage Virtualization, and Replication for disaster recovery and remote office protection. Our products are available from major OEMs and solution providers and are deployed by thousands of customers worldwide, from small businesses to Fortune 1000 enterprises.

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