

PRODUCT BRIEF

FalconStor Virtual Tape Library (VTL) with Deduplication



Get Instant Hero Status

Meet the backup window and unlock cloud for long-term data retention and recovery.

FalconStor® Virtual Tape Library with Deduplication is a disk-based solution that emulates physical tape drives and libraries. VTL is a vital tool in your data mastery arsenal and gives you instant hero status by optimizing backup storage requirements so you can save your department money and improve restore performance to enable rapid remote disaster recovery.

Whether you're refining an existing backup system or implementing a new one, FalconStor VTL with Deduplication reaches speeds up to 40TB/hour at a 3X-6X better price/performance ratio than a leading competing solution, reducing backup windows, improving storage efficiency by up to 95%, and lowering operational costs.



AT A GLANCE

With FalconStor VTL with Deduplication, you'll reap the benefits of capacity reduction, longer data retention, improved restore times, pervasive security, and increased data reliability through the elimination of tape shipments.

- **Meet the backup window.** Achieve single node aggregate backup speeds of up to 40 TB/hour to meet your single biggest issue in backup.
- **Save up to 95% on data capacity needs.** Eliminate redundant data and reduce up to 95% of business data stored for data protection purposes, while selecting the deduplication policy that best aligns performance to business requirements.
- **Scale as needed to meet data growth needs.** Deploy the only solution that can independently scale high availability backup nodes from cluster deduplication nodes to handle large data sets and extremely demanding backup windows.
- **Get peace of mind with leading ease-of-use and price/performance.** Protect data and make it highly available and accessible from multiple sites while integrating with existing backup applications with minimal effort.

REDUCE STORAGE COSTS AND PROCESSING OVERHEAD BY OPTIMIZING BACKUP.

FalconStor VTL with Deduplication unifies NAS and VTL technologies to enhance legacy backup with a more flexible data protection architecture. By utilizing deduplication capability, you can reduce physical storage needs and costs.

SCALE PREDICTABLY AND COST-EFFECTIVELY.

Unlike other solutions that pre-process "boost" capabilities, FalconStor VTL with Deduplication scales predictably and cost-effectively by adding more VTL nodes, delivering exceptional value. And, because FalconStor VTL is hardware-agnostic, you can choose the most economical hardware configuration best suited to your use case with no lock-in.

AVOID COMPROMISING APPLICATION PERFORMANCE.

Unlike other solutions that pre-process the data and move the deduplication workload to the application server, FalconStor VTL with Deduplication provides a scalable solution, so you can deploy the right-size VTL configuration for your needs. You won't have to worry that processing on the server will slow your applications nor will you have to invest in higher-end, over-spec'd application servers.

ADD SECURITY WITHOUT COMPROMISING PERFORMANCE.

Complex passwords and customizable account lockout policies can be enabled to add additional layers of security without compromising performance. To ensure data integrity, FalconStor VTL with Deduplication provides a full set of features to secure data on backup media, during replication, and at rest. Encryption in-flight protects data during replication.

“With FalconStor VTL we’ve eliminated the risk of a backup tape being lost or damaged during transport, as backups are replicated offsite quickly, saving a great deal of administrative overhead. In addition, we are seeing a 70-to-1 deduplication ratio, which shrinks our storage requirements. Within a 15-month period, the FalconStor VTL solution has already paid for itself.”

— Mark Boudreau,
Vice President of IT Infrastructure,
Discovery Solutions

One Solution For All Your Use Cases

Choose the Hardware Configuration Appropriate For The Level of Continuity Required.

HOW IT WORKS

FalconStor VTL with Deduplication works by removing redundant data blocks and replacing them with pointers to the unique data copy. Only unique blocks from the last time the data was stored are kept. All unnecessary meta-data is removed, leaving only the raw data stored on disk.

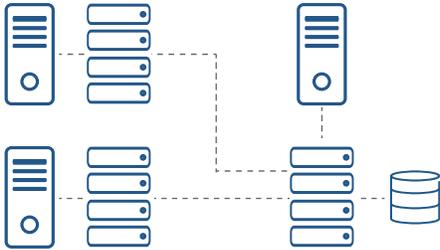
All of these processes are secure, automated, and error-free. Manage and track thousands of tapes and all your libraries so you can recover data from any point in time. Export tapes to the cloud, eliminating the need to physically move tapes offsite for storage.

- **Remove the burden of backup from remote office non-IT staff.** One of the biggest headaches for IT is performing backups using physical tape at remote offices where often there is no IT staff. Non-IT staff are expected to deal with challenges such as rotating tapes and backup failures. They are not skilled at this, and backups frequently fail. You'll get instant hero status by taking this burden off branch office workers while protecting the data and eliminating failures related to tapes and staffing issues.
- **Get higher backup speeds without impact to the business.** FalconStor VTL with Deduplication archives data with no impact to application servers or business continuity.
- **Align deduplication processes to business goals.** Meet regulatory and compliance requirements for protecting and storing data offsite while ensuring it's highly available and accessible from multiple sites and define your deduplication use case (remote office, inline, post/concurrent, or none) based on SLAs and business needs.

USE CASES

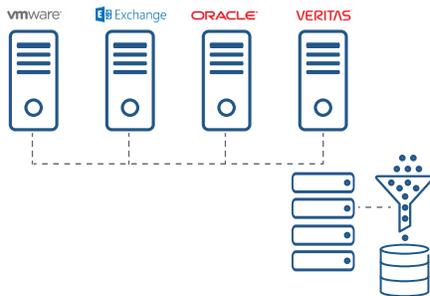
Remote Office Protection

Get the freedom to protect data at remote offices while eliminating failures related to tapes and staffing issues..



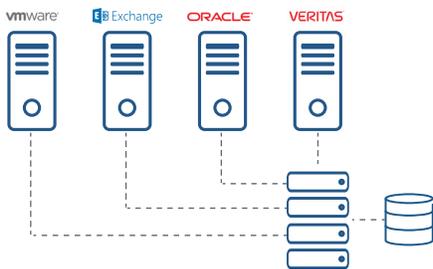
Post-Processing and Turbo Deduplication

Achieve higher backup speeds without impacting the backup window.



No Deduplication

Bypass deduplication and eliminate consuming CPU cycles on any data that does not inherently yield good deduplication.



- **Use existing investments.** FalconStor VTL with Deduplication is a reliable and fast backup solution that is vendor-agnostic, which means you can choose your own hardware to save costs and ensure no compromise on performance.
- **Export tapes to the cloud.** Achieve low-cost tape archive that is encrypted for protection and managed by the local VTL software. Migrate virtual tapes to Amazon Web Services (AWS) S3 and Glacier and to Hitachi Content Platform (HPC) object storage for archive purposes in the cloud, and set up policies on virtual tape libraries to automatically migrate tape data when a tape is ejected to the virtual vault after backup.

DEPLOYMENT OPTIONS

Deploy FalconStor VTL with Deduplication in the format best suited to your organization's unique needs and use cases.



Software Only

Choose the hardware configuration appropriate for the level of continuity required.



Virtual Appliance

Deploy in small or large environments in virtual or physical settings.



Storage Appliance

Provide continuity and remove the risk of downtime with an all-in-one appliance.



Gateway

Put existing storage to better use in larger organizations with gateway deployments that provide consistent capabilities across multiple types of storage.

Learn More at falconstor.com/products/virtual-tape-library

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