Cybernetics’ Virtual Tape All Flash Array Solutions

Cybernetics’ Virtual Tape Libraries are designed to eliminate the challenges you face in archiving and protecting your valuable data. Our units are incredibly easy to install, manage, scale, and will adapt as your network changes.

The iSAN® V Series Virtual Tape Library is a powerful solution with up to 200 TB of raw, native capacity. Utilizing existing tape backup software, the iSAN® V Series VTL consolidates backup across any mix of operating systems with support for iSCSI, SAS, Fibre, and legacy SCSI host systems. Writing in sixteen concurrent, parallel data streams - with up to 14 TB/hr speeds - the iSAN® V Series is the ideal choice for the most demanding enterprise backup requirements. Available with a 10 GbE, Fibre Channel, or SCSI option, iSAN® V Series delivers all the benefits of virtualization, data deduplication, and performance at a surprisingly competitive price.

- Up to 14 TB/hr throughput
- Deduplication reduces backup space typically by 50:1
- Consolidates all your backups cost effectively
- Utilizes your existing tape backup software
- Scalable up to 5 units, a total of 200 TB Flash SSD native capacity

Powerful Virtual Tape Library Solutions
**Scalability and Connectivity.**

Unlike tape, disk backup solutions are easy to scale. Add more capacity dynamically when needed. Our virtual tape libraries can be purchased with just the capacity you need today and as your data grows, more disk drives can be added into the enclosure and expansion cabinets.

**Increase Reliability.**

By utilizing a fault tolerant design, backups and restores become redundant. Unlike tape drives, jobs do not easily fail. With RAID protection, redundant power supplies and multiple connections supported, your data is highly available when you need it.

**Faster Backup and Restore Speed.**

As your data grows, so does the backup window. By installing a virtual tape library, you can reduce the time it takes to protect your data. It’s not atypical to see a twenty hour backup to tape take less than an hour with a VTL. Restoring your applications and data is faster as well. What takes seconds and minutes with a virtual tape library can take many hours/days with a physical tape library.

With tape, traditionally one backup job is created per tape drive. Multi-threading different backup jobs to one tape drive is supported by some software packages but cripples your restore speed. Virtual tape libraries can emulate many tape drives. Simultaneous backup jobs to one VTL greatly enhances your backup performance without negatively impacting restore times.

**Security.**

Cybernetics’ virtual tape libraries offer encryption “at rest” and “at flight”. Backups stored on disk can be encrypted as well as data replicated. Offloads to attached tape and/or removable disk drives can also be encrypted.

**Off-line Tape Archiving.**

Backups performed to a Cybernetics’ virtual tape library can be offloaded to removable disk and/or tape. Multiple tape drives and libraries can be directly connected to the VTL via SAS/FC/iSCSI for off-line archiving. Unless encryption is utilized, tapes are not proprietary and can be restored using a tape drive and your regular backup software.

**Reduce or Eliminate Tape.**

Many corporations are looking to eliminate tape or greatly reducing their reliance on it by deploying virtual tape libraries. Technologies like deduplication and replication ensure you have multiple copies of your data in different geographic locations. You can store months to years worth of backups on cost-effective and redundant disk while needing less bandwidth.

**Lower the Cost of Backups and Archiving.**

Cybernetics’ virtual tape libraries are among the most cost-effective solutions available. Not only is the cost of acquisition lower than our competitors, capacity expansions and warranty extensions are lower as well. With deduplication and replication, you can also reduce the amount you pay for long term storage and recurring monthly bandwidth. You can also save time, money and headaches associated with managing the backups.

**Ease of Use.**

If you can use a tape drive and your backup software, you can use our virtual tape library. With an easy “set it and forget it” interface, installation is super fast, traditionally less than an hour. Managing multiple virtual libraries can be done with one tab in your web browser. And if you need any assistance, access to our technical support team is a phone call away.

Call Today!

800.211.8798

www.ucgtechnologies.com
What is a Virtual Tape Library?

A VTL is a storage device that emulates one or multiple tape drives/libraries. It's designed to greatly reduce your backup window and increase your restore speeds, especially when compared to tape drives. They can also reduce the amount of disk storage you need for long term data retention and minimize the bandwidth required for site-to-site replication.

Why Emulate Tape?

By appearing as tape, you have 100% compatibility with any backup software that supports tape without any operational learning curve. This includes BackupExec, ARCServe, CommVault, Tivoli, DPM, native i5/OS backup commands, BRMS, Robot/SAVE, IPL and many more. There are no additional software/agents required. Whether you're running Windows, i5/OS or any Unix derivative, a single VTL can protect your entire data center easily.

A well engineered VTL does not format the disk drives with a traditional file system, thereby eliminating the need for virus scanning and defragmenting overhead; increasing your read/write performance. This is traditionally faster than using DAS, NAS and SAN for a backup repository.

By emulating tape at the block level on disk, any off-line copies sent off-site via physical tape will remain compatible with your backup software. In an emergency situation, restores can be done without access to the virtual tape library.

Why Use Flash SSD?

SSD drives provide faster throughput per drive, higher reliability than rotating storage, zero performance loss with encryption-at-rest and much faster deduplication processing. Flash VTLs from Cybernetics can cost less than other brand's spinning disk solution. Whether you deploy an "All Flash VTL" or a hybrid (mixing SSD and rotating storage together), your backups and restores can be greatly improved.

Cybernetics' powerful data deduplication engine has extreme processing power to reduce data at typical ratios of 50 to 1, without risking data integrity due to hash collisions. Exceptional data reduction makes a replicating pair of iSAN® VTLs at remote locations the ultimate disaster recovery solution. Virtual tapes can be selectively archived to removable tape media in a completely serverless, background mode. All tape archives are universally compatible and recoverable without the presence of a VTL. When you're ready to move data off disk for long term archival storage, the Tape Offload feature will write to removable tape in serverless mode - with absolutely no impact on your host or network operations.

- Saves time by backing up to fast disk arrays (up to 14 TB/hr transfer rate)
- Encrypt data on the VTL and on media
- Centralizes all your backups with a single device
- Scalable, expand to 200 TB and beyond
- Optional deduplication reduces backup size (50:1 typical)
- Control operations with flexible options
- Simultaneous output to multiple tape drives/libraries
- Copy archival tapes to new tape devices/formats
- Lifetime technical support - US-based call center

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Founded in 1978 and headquartered in Yorktown, Virginia, Cybernetics is a privately held corporation specializing in the design and manufacture of high performance disk, tape, and virtual tape storage solutions. Our product line features cutting edge technologies which have been rigorously tested to deliver seamless compatibility and solid reliability, along with innovative – and exclusive – features that provide greater functionality, data accessibility, and return on investment than any other storage solutions provider can match.

Network Connectivity
Optional Configurations

**iSAN® V 6140**
Two 8G FC or Two 16G FC

**iSAN® V 6520**
Two 8G FC or Two 16G FC

**iSAN® V 4520**
Two 10GbE 10GBaseT or Four 10GbE SFP+ or Two 8G Fibre Channel

**iSAN® V 2520**
Two 10GbE 10GBaseT or Four 10GbE SFP+ or Two 8G Fibre Channel

**Compatibility**
Cybernetics backup solutions are 100% compatible with any backup software that supports tape drives and libraries, including but not limited to: Arcserve, BackupExec, CommVault, DPM, Netbackup, Networker, Netvault, BRMS, Robot/Save, SAVSYS/IPL/Option21, Tivoli Storage Manger, Retrospect and many more.

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