

# Full System SAVES Whenever You Want

- No Downtime
- No Bottleneck
- No Change In Backup Procedures Or Commands

↑  
WITH OR WITHOUT TAPE  
↓

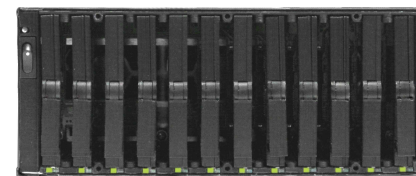
# Replicate OFF-SITE While Reducing Bandwidth Requirements

- Experience Fast Off-Site Replication Even With Limited Bandwidth

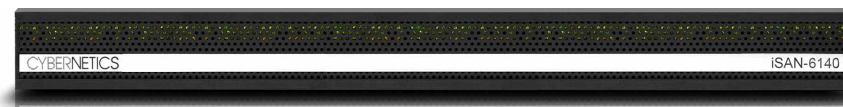
## Flexible Model Choices



20 Bay 1U  
(half rack)



12 Bay 2U  
(half rack)



40 Bay 1U



24 Bay 2U



24 Bay 4U

## Support

Cybernetics technicians are located in areas covering the lower 48 states, along with having representation extending into Canada. In most areas, on-site service is available as early as the next business day or a 7x24 four hour response. Telephone technical support is located within Yorktown, VA, and is provided by experienced support engineers who do not rely on scripts or flowcharts, but are instead SysAdmin quality. They are well versed with everything related to the AS/400, iSeries, and Power System servers. In addition, they can assist with other operating systems such as Windows, all Unix versions, Mac, VMware, and Hyper-V.

"It is great customer service that tells me I want to continue to purchase products from your company."

The future of data backup is here and now. Let's talk about how one of our high speed Virtual Tape Libraries can save you time and money today!

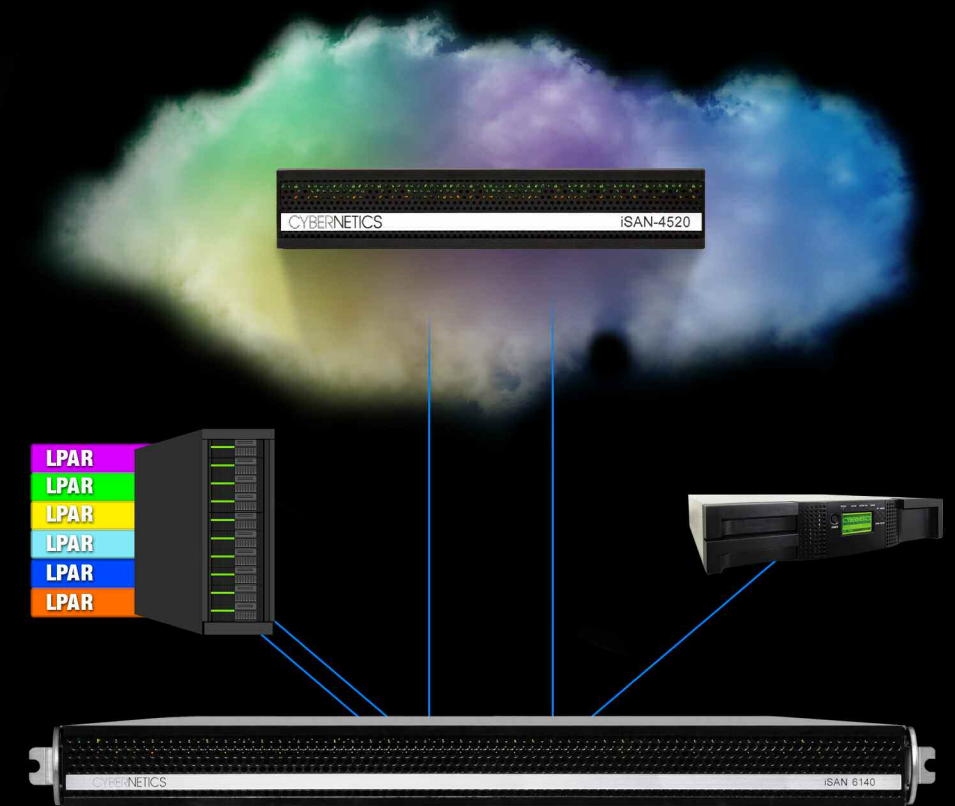
[www.cybernetics.com](http://www.cybernetics.com)

**What are you waiting for?  
Call Today! 757-833-9000**

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# Speed Your Backup Into The Cloud

No Changes To Backup Procedures Or Commands



A New Approach To

# 3 - 2 - 1

Backups

Diiferent Media Types

Offsite Copy

## Make Your Own Cloud With A Virtual Tape Library.

# CYBERNETICS



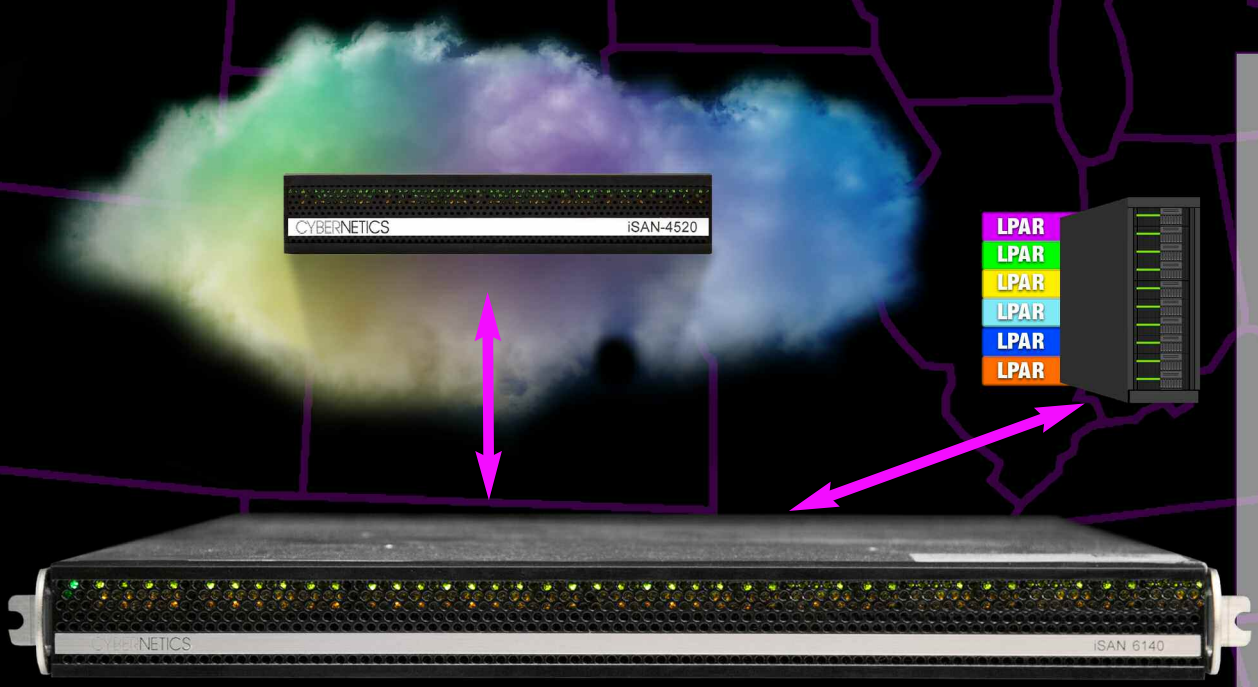
# Become The Cloud And Properly Implement A 3-2-1 Backup Strategy

**3 Copies Of The Data**  
By having three independent copies of your data, you greatly improve your chances for a successful full system recovery in case of equipment failure, ransom-ware, human error, fire, water damage, theft, and many other potential threats.

**2 Media Types**  
To properly safeguard your data, you must have it available on two independent types of media. That can include a physically different storage array, virtual tape library, or physical tapes. Because viruses and ransom-ware attack file systems, the second copy should be "off-line" and would naturally be protected from attack.

**1 Copy Off-site**  
To protect against localized threats, one full copy of the data should be stored off-site, preferably far enough way for geographic redundancy (flood, earthquake, fire, long term power outages, and more).

**The 3-2-1 rule is the bare minimum needed for a comprehensive backup and disaster recovery plan. Having additional copies enhances your policy and adding archiving will provide historical access to your data during your desired retention period.**



## How Cybernetics Enables 3-2-1 With The Cloud

**1 additional copy on-site:**  
Nightly backups can be performed locally to a Cybernetics' VTL. This can be many times faster than tape and is more redundant and reliable. Backups are accessible anytime, even if your Internet connection is disabled. When necessary, restores can be done locally, eliminating latency in performing Cloud restores.

**2 media types:**  
Even though VTLs are disk based, like the original copy of your data, virtual tape libraries do not have a mountable file system because of tape emulation. This makes them impervious to virus and ransom-ware attacks. Your backup copies are "off-line" and safe. Many copies can be stored locally, providing archive access to weeks, months, or years worth of independent copies.

**1 Copy Off-site:**  
Cybernetics' VTL has the ability to replicate all of your backup copies to the cloud, public or private. This keeps your data safe from localized disaster. Advanced technologies like deduplication can greatly reduce how much bandwidth is necessary for replication. Cybernetics' ground-breaking approach to data reduction leads all virtual tape libraries with the Industry's best duplication ratio, averaging >50:1 with IBM i data. Their encryption design ensures your data is safe when stored off-site, protecting it from unauthorized access, and tape emulation protects it from remote viruses that may impact your cloud's file systems.

**Creating your own 3-2-1 backup strategy is easy, and within budget, with Cybernetics' Virtual Tape Libraries.**

Several models and performance levels to choose from makes Cybernetics' VTL solutions the ideal solution for companies looking to replicate data to an offsite location.



- ✓ Up to 14 TB/Hour
- ✓ Tapeless IBM i backup
- ✓ Replication / deduplication
- ✓ Option 21 / IPL support
- ✓ No change in backup operation from tape
- ✓ Offline archiving to tape supported
- ✓ Easily enables private/public cloud backups
- ✓ 3-2-1 backup rule compliant, even with cloud.

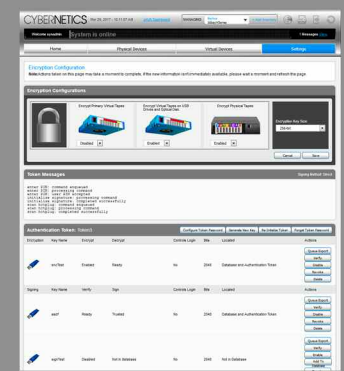
Virtual tape libraries can be connected to AS/400s, iSeries, Power Systems and Pure Systems via Fibre-channel, SAS or legacy SCSI. Cybernetics also manufactures iSCSI converters that work with IBM to convert SCSI/SAS to iSCSI to overcome distance limitations and enable legacy support for older IBM servers.

Multiple IBM midrange servers can be connected to one virtual tape library.

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, IBM i and older backup commands, BRMS, Robot/SAVE, IPL and many more.



Cybernetics' powerful GUI will simplify your Virtual Tape Library management with secure access to settings and features of your VTL Backup unit from any IP address you allow. Configure backup settings, add virtual tape libraries and virtual tapes conveniently and quickly through easy to navigate options.



Once installed and setup, enjoy 100% compatibility with SAVE commands, IPL, BRMS, and even third party applications like Help Systems' Robot/SAVE.

