

### Sometimes less, can offer you more...

Mainframe data centers that previously used massive physical tape drive systems and libraries are getting more value, efficiency and capability by implementing MVTi and eliminating the high cost of media, maintenance, shipping and off site storage of physical tapes.



### Compared to Physical Tape Libraries, MVTi requires:

- Less data center space
- Less time and fewer IT resources to manage
- Less cost for physical tape maintenance, media, shipping and off site storage
- Less complexity than removable tape encryption, security and key management
- Less time to test and restore operations for remote disaster recovery



### Enterprise-Class Mainframe Virtual Tape in 2U

MVTi is a fully integrated, enterprise-class mainframe virtual tape solution featuring Channel Gateway X, compression and internal RAID storage for higher availability. The solution is ideal for enterprises that have modest mainframe tape storage requirements. MVTi only occupies 2U of industry standard rack space. Its modularity enables easy deployment at multiple internal or third party remote disaster recovery sites, while minimizing the related cost.

Its compact, modular footprint should not be underestimated though... MVTi offers more of the industry's leading options as well.

- More FICON connectivity options – Supports up to 8Gb FICON
- More replication options – Luminex Replication with Replication Monitoring at the VOLSER level (RepMon)
- More data protection and security using CGSafe™ encryption and key management
- More of the industry's leading disaster recovery options, including Push Button DR and Luminex MDC. So, DR exercises are easier to accomplish, require less time and are less cumbersome
- More storage options including CloudTAPE™ for archiving to the cloud

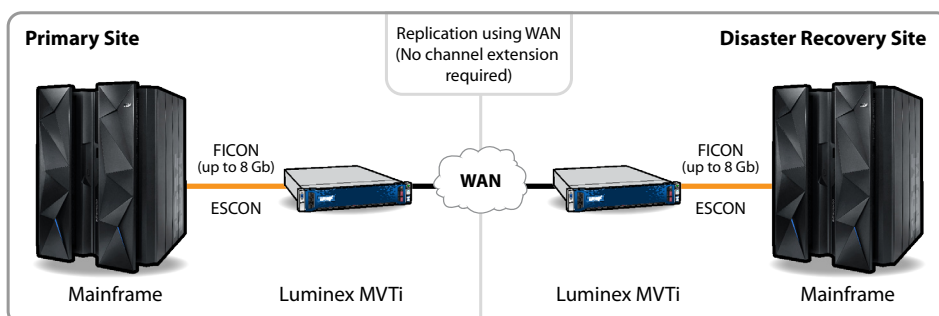
For enterprises with more substantial capacity and availability requirements, Luminex also offers the expanded capacity MVTe Series, starting at 4U.

### Solution Features

- Complete mainframe virtual tape solution in a compact form factor
- Replication option with remote monitoring at the VOLSER level
- Push Button DR option
- Encryption and key management options
- Virtual tape cartridge sizes are configurable
- Supports up to 256K block sizes
- CloudTAPE ready

### Solution Benefits

- Improves performance for all tape operations
- Significantly improves Recovery Point Objectives (RPOs) and Recovery Time Objectives (RTOs)
- Eliminates cost of storing, handling, transporting & managing tapes
- Eliminates recurring maintenance costs of tape libraries & drives
- Significant reduction in datacenter requirements for:
  - Floor space
  - Electrical usage
  - HVAC requirements
- For HSM, reclaim CPU cycles by skipping ML1 and migrate from ML0 to ML2
- Secure, Reliable and Immediate Disaster Recovery
  - Tape volumes are available both locally & at DR site
  - Recovery at DR site is immediate – no waiting for physical tape retrieval



Typical Disaster Recovery configuration using replication over a WAN

### Additional Options

- **MVTe Series**  
Scalable, resilient and highly configurable mainframe virtual tape solutions for Enterprise
- **Luminex Replication**  
Improve your disaster recovery plan with remote replication to one or more DR sites
- **RepMon™**  
Replication monitoring and auditing at the VOLSER level
- **Push Button DR**  
Disaster recovery and testing with “push button” ease
- **LTMon™**  
Integrated, centralized management from the mainframe console
- **Tape Migration Software and Services**  
Seamlessly transition physical and virtual tapes with exact copies of original VOLSER numbers and labels
- **CGSafe™**  
Encryption and key management
- **CloudTAPE™**  
Replace physical tape archives and/or third copy backups with always available, geographically dispersed and secure cloud storage
- **Multi-Site Disposition Change (MDC)**  
Dynamically assign replication sources and targets among multiple sites to implement a data center “swap” from a GUI or mainframe console
- **Synchronous Tape Matrix™ (STM)**  
True continuous availability for mainframe virtual tape

### About Luminex

Luminex is a leading developer and provider of disk-based mainframe virtual tape products and technologies. Luminex solutions allow mainframe enterprise users around the world to take full advantage of the benefits of Modern Mainframe Virtual Tape to eliminate or reduce physical tape, improve RTO and RPO, lower capital and operating costs and improve data security. With Luminex solutions, enterprises can now have a single backup and recovery program for their mainframe and open systems data.

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## How Does the Solution Work?

MVTi includes CGX virtual tape control units, which emulate 3490 or 3590 devices and are plug-compatible with IBM mainframe FICON and ESCON channels. The solution supports up to 8Gb FICON connectivity to the mainframe to achieve the industry's best FICON performance and throughput. The entire solution is mainframe application transparent, so customers can continue to use existing applications without modification.

For added data protection and security, MVTi offers encryption, key management and remote replication of tape data to secure, internal or third party disaster recovery sites. Both asynchronous and synchronous remote replication solutions are available. So, the slower, expensive and cumbersome processes associated with packing, shipping and recovering physical tapes can be eliminated by using continuous replication of virtual tapes to a DR site for testing or recovery when needed.

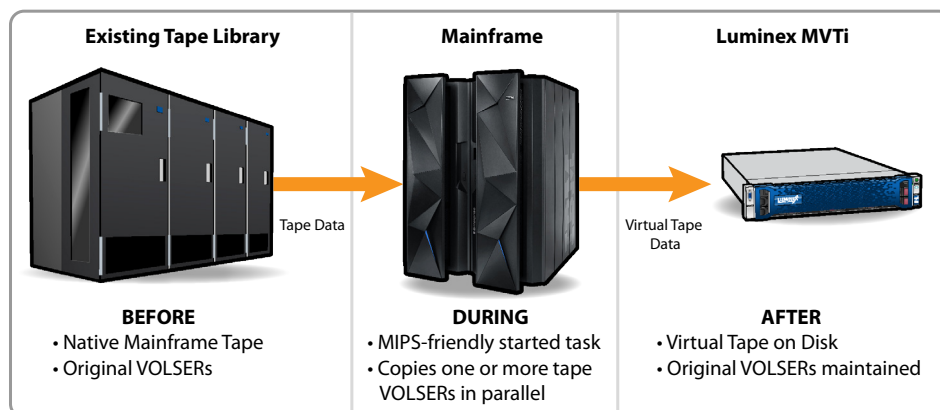
## A Single Source for Complete, End-to-End Enterprise-Class Mainframe Virtual Tape Solutions

MVTi is an all-in-one solution. It is complemented by Luminex pre-sales consulting, implementation services and post-sales support options. So, your enterprise can have a single point of contact for all services, access to our exceptional technical resources and “one back to pat”.

### Tape Migration Services Make the Transition Simple and Easy

We recognize that for many data centers, the transition from the old physical tape environment to the new virtual tape solution will require tape migration software and services as well. Luminex is currently the only major mainframe virtual tape vendor that directly provides its own tape migration tools and services.



These tape migration tools and services facilitate a near-seamless, fully secure migration with virtually no impact to enterprise operations. In fact, with Luminex Tape Migration Software, the original tape volume serial numbers and historical information are also retained after cut-over to the new virtual tape environment.



So, with MVTi, customers get all of the products and services needed to ensure a smooth transition to the new solution.

For additional information regarding MVTi specifications, please refer to the Luminex MVTi Specifications Sheet.

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