

### A Single Source for Enterprise-Class, High Performance, Highly Available Virtual Tape Solutions

When mainframe data centers need to improve tape operations, including batch processing, HSM, disaster recovery and archiving, Luminex offers a single source for virtual tape and tape migration solutions.

MVTe solutions, featuring Channel Gateway X (CGX), are the culmination of customer driven product enhancements based on hundreds of customer use cases worldwide and decades of research and development. The result is the industry's leading disk-based mainframe virtual tape offering with highly available, high performance storage options that scale to petabytes of virtual tape capacity. No physical tape is required.



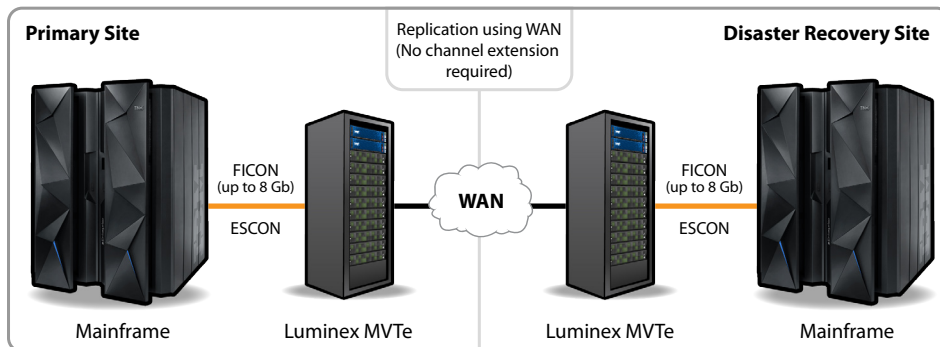
#### What Can MVTe Do for You?

- Reduce batch processing times and improve HSM, with disk-based virtual tape instead of physical tape and slower robotic tape libraries
- Archive tapes on disk or optionally archive to the Cloud with CloudTAPE™
- Simplify Disaster Recovery (DR) plans, exercises and improve DR preparedness with remote Replication Monitoring (RepMon™), Luminex MDC and PushButton DR



#### How Does the Solution Work?

MVTe includes CGX virtual tape control units, which emulate 3490 or 3590 devices and are plug-compatible with IBM mainframe FICON and ESCON channels. CGX has an elegant, modular design (2U) enabling exceptional scalability. It can be configured with the highest performance storage systems available in the industry, including modular, enterprise or virtualized storage with RAID 6 data protection for greater resiliency. 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.



Typical Disaster Recovery configuration using replication over a WAN

For added data protection and security, MVTe offers encryption and 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.

#### 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

### Additional Options

- **MVTi Series**  
Compact, complete mainframe virtual tape solutions with internal storage in only 2U of rack space
- **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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## A Single Source for the Entire Customer Experience

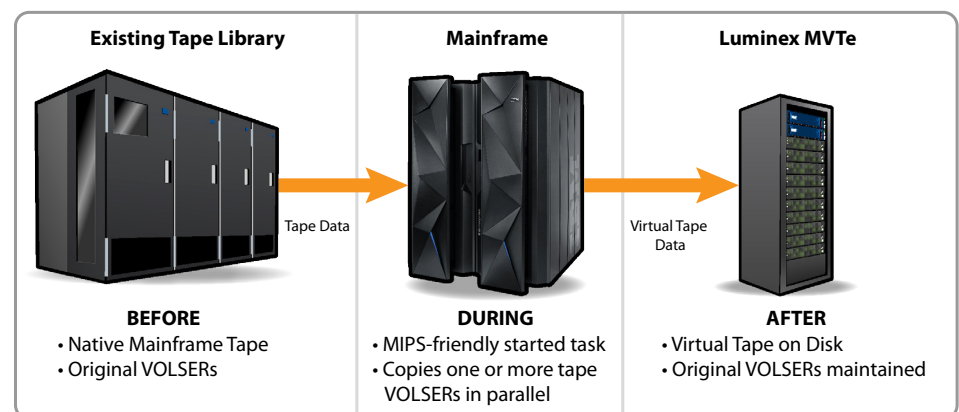
### From Pre-Sales to Long Term Customer Satisfaction

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

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

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