Luminex Replication
Replication Solutions For Mainframe Virtual Tape

Enterprise-Class Replication, Testing and Reporting Suite

Luminex Replication provides comprehensive data protection solutions for mainframe virtual tape.

Luminex Replication provides extensive options for where, when, and how mainframe tape data is made available, as well as VOLSER-level monitoring and disaster recovery and testing at the push of a button.

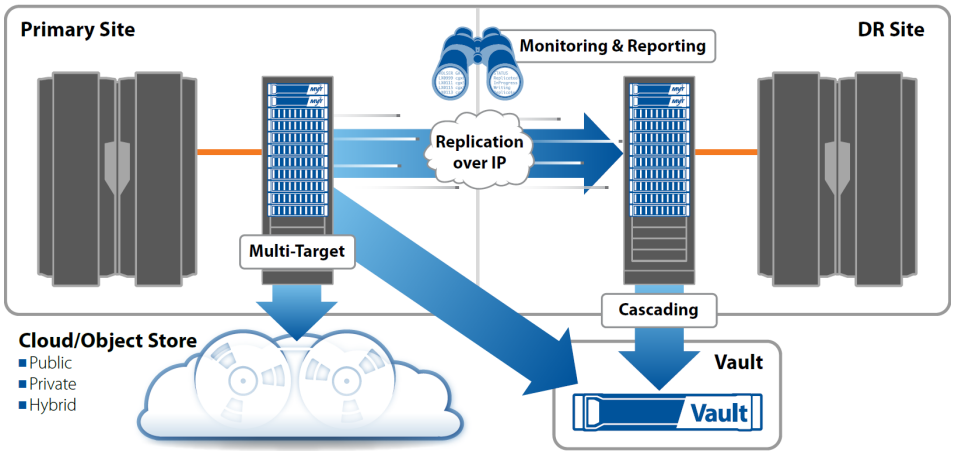
Comprehensive Tape Data Availability, Made Simple

- **Immediate and continuous replication over IP**
- **Flexible replication policies**
- **RepMon:** Monitoring, logging and auditing at the VOLSER level
- **Push Button Capabilities:** Fast, easy and non-disruptive DR testing and Site Swaps
- **CloudTAPE:** Replication to Cloud and object storage
- **Transparent tiering and recall**
- **RansomProtect:** Replication into cybervault with flexible recovery and testing options

Luminex Replication continuously transmits tape data to DR, ensuring that even the most recently written data is protected and available at the recovery site. Enterprises can now meet and improve backup windows, service level agreements (SLAs), as well as RPO and RTO requirements with minimal operator intervention and without the costs and risks of handing valuable data off to a third party for transit or vaulting. With tape data always available at DR, testing times are reduced, allowing for more frequent and/or extensive testing events. Additionally, recovery and testing success is improved since there is no risk of missing, mislabeled or damaged physical tapes.

Flexible policy configurations allow selective replication at the tape range and/or device range (logical library) level, so only the required data is replicated.

For enterprises that require multiple copies of tape data, multi-site replication provides “one-to-many” and “cascading” replication options. With one-to-many replication, tape data is sent directly to one or more local or remote sites, minimizing latency between second and third copies. Cascading replication minimizes network bandwidth at the production site by sending replicated “second copy” data from DR to a third site. Both options work automatically without operator intervention.



Luminex Replication provides multi-target and cascading replication to a variety of targets with flexible policies to serve the needs of any size mainframe environment.

Solution Features

Flexible Replication Policy Options

- **Replication Targets**
  - CGX
  - Cyber Vault
  - Data Bunker
  - Cloud Providers
  - Object Storage
- **Number of Targets**
  - One-b-One
  - One-b-Many
  - Cascading
- **Multi-Policy Support**
  - Replication options can be tailored to specific
- **Tiering**
  - Stub local copies for remote only tapes to tree local storage
  - Transparent recall from remote targets
  - Recall from any CGX

Replication Monitoring

- Real-time VOLSER-level replication status display
- Send replication status to SEM Replication logging for performance and disaster recovery auditing
- Email alerts with "point in time" replication status logs
- Monitor replication from multiple local or remote clients
- Viewstatus ofvolumes stored in the Cloud or object storage

Push Button DR Testing

- Simple implementation o freplication schema changes
- Easily inilale fom a GUI or main frame console
- Point-in-time copy for DR test data
- Allows For
  - Non-disruptive DR testing
  - Datacenter Swap

Luminex Replication

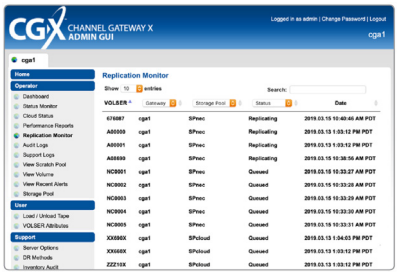
CGX Options

- **CloudTAPE™**
  Replace physical tape archives and/or third copy backups with always available, geographically dispersed and secure cloud storage
- **RansomProtect**
  Leverage immutable storage to provide ransomware protection and recovery
- **Push Button DR**
  Disaster recovery and testing with "push button" ease
- **Synchronous Tape Matrix™ (STM)**
  True continuous availability for mainframe virtual tape.
- **Luminex Replication**
  Improve your disaster recovery plan with remote. replication to one or more DR or cyber vault sites with replication monitoring
- **RepMon™**
  Replication monitoring and auditing at the VOLSER level
- **CGSafe™**
  Encryption and key management
- **Tape Migration Software and Services**
  Seamlessly transition physical and virtual tapes with exact copies of original VOLSER numbers and labels

CloudTAPE

Luminex Replication provides on or off-premise object storage compatibility with its CloudTAPE feature. The object storage can be utilized as a data bunker, cybervault, or archive repository. Luminex's tiering capabilities allow for the automatic recall of tapes to local storage, enabling tape archives to be offloaded from local storage. Data can be recalled from a CGX at any site allowing for DR testing or true recovery from a remote site. Data can be sent to the object storage automatically for every tape in a pool or specific tapes can be selected based on a policy or list.

RepMon: Replication Monitoring

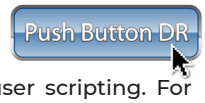


RepMon provides real-time VOLSER-level replication monitoring and logging for disaster recovery auditing and performance reporting. The GUI runs in any modern browser and offers filtering and sorting by VOLSER, gateway and replication status, allowing operators to gather information efficiently in real-time or from log files. RepMon can monitor multiple CGXs, and multiple RepMon clients can monitor the same CGX. In the event of a connectivity or replication error, RepMon can provide alerts with “point-in-time” replication status logs.

Cyber Vault

Luminex Replication is compatible with a wide array of industry standard cyber vault protection services. Luminex’s RansomProtect with InfiniteSnap allows users to sync their tape services with a DASD snapshot from a versioned object storage. This allows users to have a complete cyber vault protection across the whole mainframe environment.

Easy DR with Push Button Capabilities



Luminex makes DR easy with its built-in Push Button capabilities to simplify DR testing, true DR, or site/region swap. The Push Button capabilities handle all necessary replication and storage state changes without requiring any additional user scripting. For instance, by selecting “DR Start” from the GUI or mainframe console, the CGX at the disaster recovery site will prepare a DR environment allowing read/write activity, without affecting the original data, and all without stopping replication from the primary data center. The same process can be achieved with simple commands from the mainframe console. Once recovery is achieved, or testing is complete, read/write activity can be saved for auditing, applied and replicated back to a restored primary data center, or wiped clean for the next testing event.

Luminex Channel Gateway X (CGX) at a Glance

The Luminex Channel Gateway (CGX) redefines mainframe virtual tape by combining enterprise-grade reliability with modern flexibility. Its advanced architecture delivers unmatched data protection, performance, and resilience—ensuring continuous availability, instant visibility, and effortless recovery with Push-Button DR testing.

Industry Leadership

Established in 1994, Luminex specializes in mainframe virtual tape and FICON solutions, trusted globally and across all industries.

Learn More

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