

Mainframe Tape and Security

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.

Supported by Luminex's proven migration tools and professional services, organizations around the world have transformed their tape environments with speed and confidence—simplifying operations, strengthening security, and preparing their mainframe infrastructure for the hybrid-cloud era.

Expect More from Virtual Tape

Protect, Manage and Leverage Mainframe Data

- Ransomware Protection and Recovery
- Simplified Cloud Integration supporting multiple vendors
- Multi-site replication
- Easy Site Swap
- Simplified DR Testing
- Mainframe Data Sharing

Ransomware Protection and Recovery

RansomProtect seamlessly integrates with existing backup methodologies, allowing organizations to maintain their current processes without significant changes. By providing a robust, scalable, and highly secure approach to mainframe data protection, Luminex RansomProtect empowers organizations to defend against ransomware while ensuring the integrity and recoverability of their most valuable information.

Simplified Cloud Integration

Luminex makes hybrid-cloud adoption effortless. With CloudTAPE, organizations can connect their IBM Z environments to leading cloud providers like AWS, Azure, and Google Cloud, or on-premise object storage platforms. Data is automatically replicated, secured, and tracked with built-in metadata, giving enterprises full visibility and control while eliminating complex gateway or middleware layers.

Multi-Site Replication

Luminex enables simultaneous data replication across multiple DR sites, cloud targets or cyber vaults to ensure continuous protection and availability. Through the CGX Admin GUI, users can easily monitor replication activity, perform audits, and manage remote copies — all from one dashboard. Provides always-on resilience and a synchronized view of enterprise data across every location.

Solution Features

- Scalable architecture provides unlimited throughput and capacity
- Complete mainframe virtual tape solutions starting at 10 TBs scaling to 100s of PBs
- Up to 32 Gb/s FICON
- Push Button DR testing & recovery
- Continuous availability
- Cloud Air Gap
- Multitenancy management
- Mainframe Data Integration
 - Integrated, extensible bi-directional data transfer & co-processing platform

Customer Benefits

- **Feature-Rich, High-Performance Architecture:** High-speed FICON, real-time monitoring, and advanced replication.
- **Enterprise-Grade Flexibility:** Scales independently with simplified upgrades and operations.
- **Customer-driven design:** Solutions custom-tailored to quickly meet customer's evolving environment and needs.
- **Storage agnostic:** Supports best of breed storage to fit any solution requirement.
- **Modern Data Protection & Cyber Security:** Ransomware protection with immutable backups and audit readiness.
- **Multi-site ready with built in site swap:** Easily swap primary and secondary data centers with the click of a button.
- **Seamless Cloud Integration:** Enables hybrid cloud and cloud tiering for storage modernization.
- **Innovative DR Testing:** Push Button DR for fast, automated, and auditable recovery tests.
- **Multi-Tenant Support:** Securely supports multiple business units or clients within a shared infrastructure.

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
- CGX Vault™**
 Cost-effective virtual tape vaults for remote, off site storage
- LTMon™ and Admin+**
 Integrated, centralized management from the mainframe.
- P2V™ and V2P**
 Off-host conversion of 3490 or 3590 physical tapes to virtual tapes for remote, off-site archives

Easy Site Swap

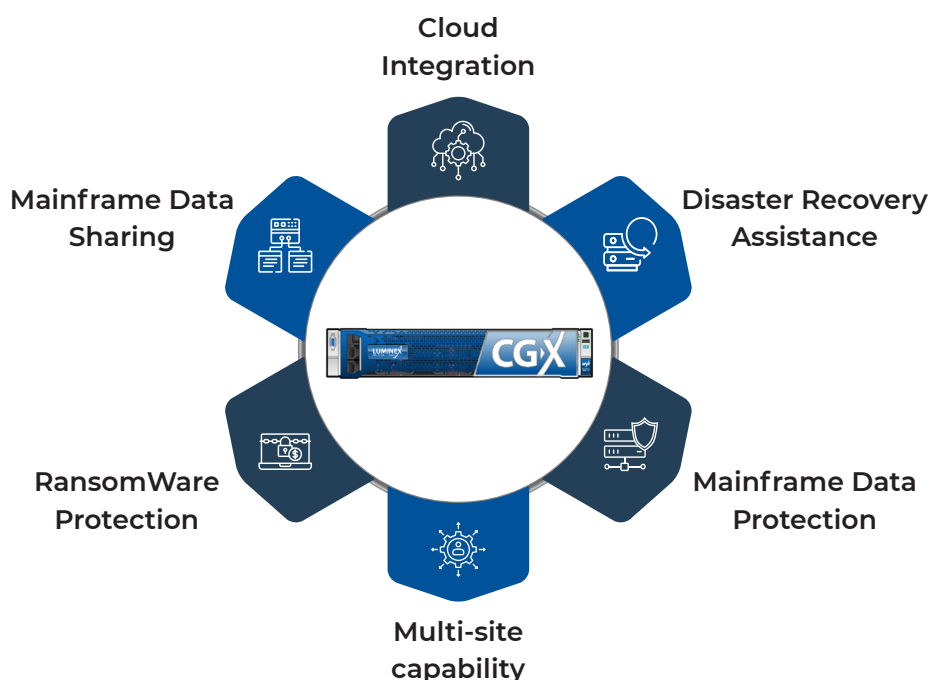
When operations need to shift between data centers, Luminex makes it seamless. Replicated data remains immediately usable at the recovery or alternate site, and workloads can resume within minutes without reconfiguration or manual restores. A simple push of a button provides rapid, low-risk transitions between sites.

Simplified Disaster Recovery Testing

With Luminex's innovative push button DR, organizations can launch non-disruptive DR tests that safely validate backup integrity, compliance, and recoverability — all without touching production systems. Ransom Protect and CloudTAPE™ users can even separately validate DR from their immutable object storage copy to truly test their Ransomware recovery strategies.

Mainframe Data Sharing

With Mainframe Data Integration (MDI), Luminex opens the door to real-time bi-directional data sharing between IBM Z and cloud analytics platforms. Enterprises can feed modern BI, AI, and cloud data pipelines directly from their mainframe systems — achieving faster insights, lower costs, and stronger business agility. Turning mainframe data into a strategic advantage for digital transformation and intelligent decision-making.



Industry Leadership

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

Learn More

- www.luminex.com
- sales@luminex.com