

Mainframe Data Integration – Data Transformation

Why is it Important?

Luminex streamlines the conversion of mainframe VSAM and DB2 data into open-systems-ready files—enabling fast, accurate, and cost-effective data integration. Traditional methods for transferring large volumes of data are often complex, time-consuming, and resource-intensive. Luminex overcomes these challenges by leveraging high-speed FICON I/O to bypass TCP/IP overhead, with EBCDIC-to-ASCII translation. The result: organizations can unlock and utilize mainframe data across analytics, cloud, and modern application environments—without disrupting mission-critical operations. Prepare for the exponential growth of data that demands seamless, secure, and efficient sharing across organizations with Luminex Mainframe Data Integration.

Business Challenges for Data Sharing

- **Incompatible Formats:** Mainframe data is not readable for most non-mainframe applications
- **Inefficient Data Transfer:** TCP/IP based data movement is too slow and consumes valuable CPU cycles, especially during peak times
- **Delayed Decisions:** Data becomes stale due to slow transformations and transfers
- **Need for Flexibility:** On-premise data warehousing lacks the flexibility to meet demand and deadlines
- **Lost Insights:** High costs prevent key data from being included in business analytics

Technical Challenges

- VSAM is not natively usable by most open systems

- Migrating large volumes of DB2 data is slow, resource-intensive, and operationally complex
- **Delayed Data Availability:** Slow data delivery hinders timely insights and decision-making
- **Inefficient Transfers:** TCP/IP-based transfers are slow, consume excessive MSUs, and increase costs
- **Shared Resource Bottlenecks:** TCP/IP, OSA cards, etc

Key Plays

- Data is delivered in the format users need for downstream systems
- High-speed transfers drastically reduce time-to-insight, enabling near real-time and smarter decision-making
- **AI & LLM Readiness:** Integrates mainframe data into AI pipelines and large language models, enhancing predictive analytics and business intelligence
- **Lower Operational Costs:** Dramatically reduces MIPS consumption during data transfers, freeing up mainframe resources and lowering costs

Why Now?

- Enhance business intelligence with faster, more accurate insights by seamlessly integrating mainframe data
- Increase business productivity
- Improve SLAs and business unit satisfaction

Data Sharing

Facilitates easy bi-directional data movement and shared analytics across mainframe, open systems, and cloud based environments.

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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