



CASE STUDY

A LEADING NATIONAL RETAIL COMPANY

Challenges

Rapidly growing demand led to existing infrastructure being maxed out. The customer required the flexibility of a cloud solution to perform their data warehousing but also needed to be able to meet the tight SLAs based on an on-premise solution. Moving the data via SFTP was too slow and used up precious CPU cycles during peak times.

Solution

Luminex's MDI Cloud Data Sharing for their SFTP transfers to the cloud.

Results

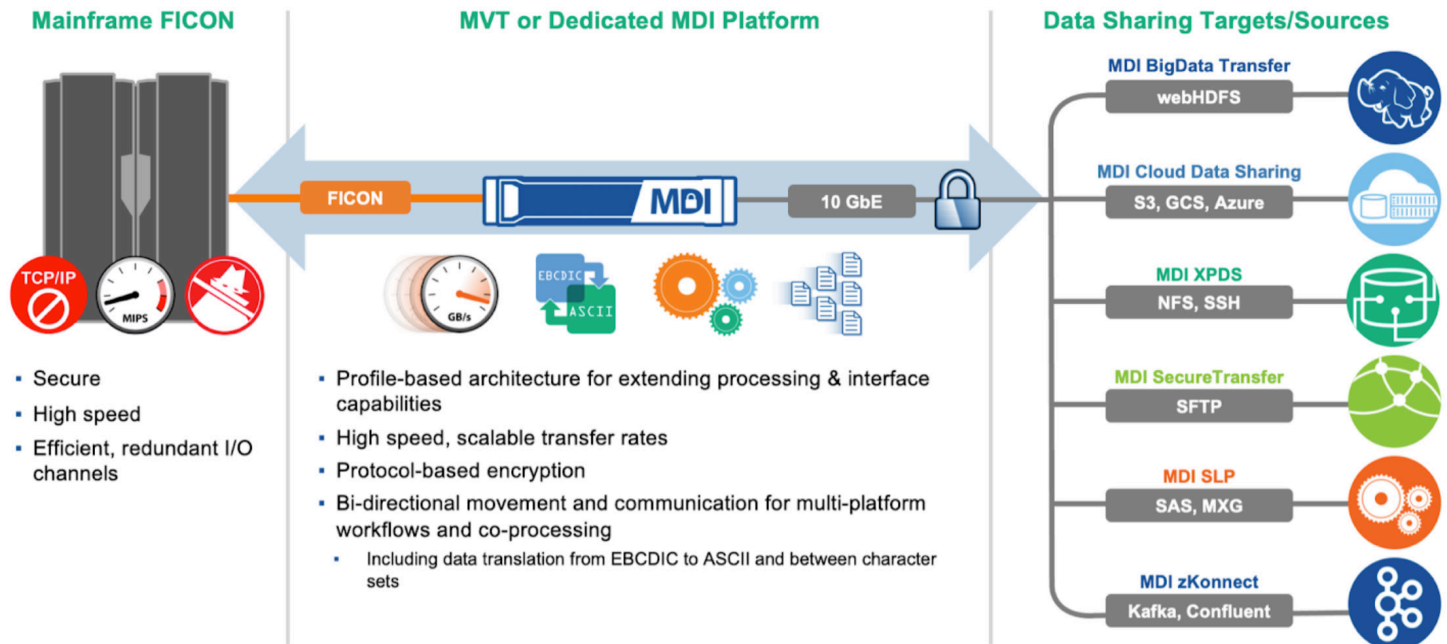
- 68% reduction in elapsed time for file transfers
- 96% reduction in Mainframe MIPS use
- Successful hybrid cloud implementation

Moving to Cloud Services Hampered by Speed Bottleneck:

A global pandemic rapidly accelerated demand for online retail. This meant that systems designed for years of gradual future growth were suddenly at capacity. A hybrid cloud solution could help alleviate the capacity peaks by providing on demand processing, however it required fast data transfers that would not tax the already peaked CPUs. A typical TCP/IP based transfer would take too long and would require too many CPU cycles. The customer needed a different approach to feeding data to their hybrid cloud environment, otherwise they would be left with a hefty infrastructure upgrade cost.

Blistering Speeds with MDI Cloud Data Sharing:

In the early stages of their shift to cloud, the customer recognized that TCP/IP transfers were using large amounts of CPU and not getting the data to the cloud fast enough to meet their SLAs. A major upgrade was urgently needed. Fortunately, Luminex stepped up to help. A customized solution was designed using Luminex’s MDI Cloud Data Sharing platform. It enabled the client to transfer data to multiple cloud providers within their SLAs all while using extremely minimal CPU cycles on the mainframe. Multiple business groups ended up using the Luminex MDI platform to successfully implement their hybrid-cloud infrastructure.



Results and Benefits:

The deployment of Luminex’s MDI Cloud Data Sharing solution greatly increased the ability for the customer to integrate their integral on-premise mainframe data with cloud environment. Testing showed a 99% reduction in CPU time, 95% reduction in MIPS, and a 68% reduction in elapsed time while transferring 50 GB files. The result was a successful cloud integration that allowed the customer to keep up with ever increasing demand for data processing without a costly upgrade of their existing infrastructure.

MDI System Resources Savings:

	Before	After	Total Reduction
MIPS	325	17	95%
CPU Time	33	0.3	99%
Elapsed Time	153 minutes	49 minutes	68%