MDI XPDS (Cross-Platform Data Sharing)

OPTIMIZE MAINFRAME MANAGEMENT AND WORKLOADS

LUMINEX MDI

Share Data Without Security Risks or Interference

To improve business application productivity, capability, and agility, you need timely and accurate processing of the critical information. This increases the demand for your mainframe's data, creating a need for fast and secure data sharing.

MDI XPDS uses the mainframe's FICON I/O channel to provide fast, efficient, and scalable access to mainframe data without exposing data or interfering with processing mission critical workloads. Mainframes also gain the ability to receive data and initiate authorized subroutines, allowing application developers to build bidirectional, multi-platform workflows for distributed processing, saving important mainframe cycles.

On Demand, Bi-Directional Access to Data

With XPDS, data can be sent to and from the mainframe without the overhead cost of slow TCP/IP methods. By using the secure FICON channel, data transfers to application-specific directories on NFS storage are as simple as writing a dataset to tape, meaning application teams can access mainframe data on demand. Additional pre and post-actions can be performed, as well as EBCDIC-to-ASCII conversion.

XPDS also enables integration with off-host applications, allowing the mainframe to receive data from distributed environments, catalog the datasets and optionally trigger additional mainframe processes.

Prioritize Critical Workloads

XPDS provides superior management and prioritization of mainframe workloads through its use of familiar tools and automated processes. Non-critical workloads such as Sort, logic applications and reporting, can be easily processed off-host, using distributed systems applications. Results can be distributed or sent back to the mainframe with ease, reducing the mainframe workload without eliminating control.

Bypass Network Traffic

As more data is moved between the mainframe and distributed systems over TCP/IP, the increased burden on mainframe network traffic creates a bottleneck, resulting in slower access to data. XPDS eliminates the need for mainframe TCP/IP by leveraging native FICON channels to move data quickly between the mainframe and NFS storage, often increasing speeds up to 90% and significantly reducing MSUs for data movement.

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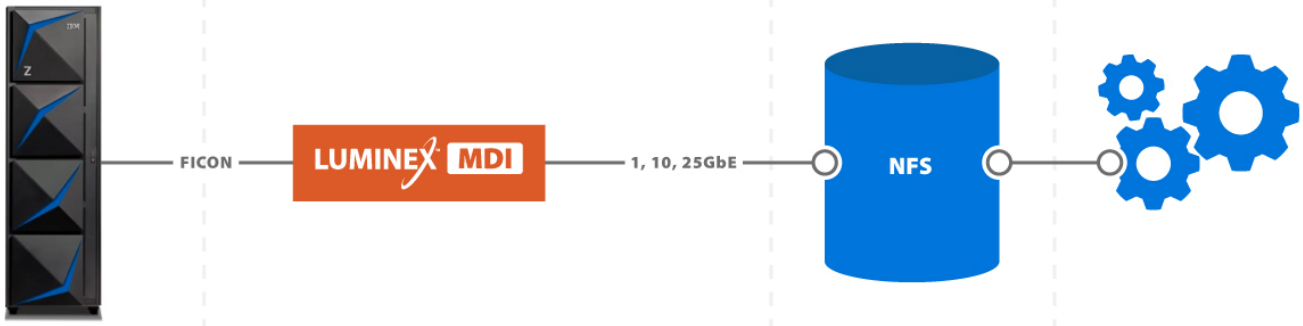
MAINFRAME
Write datasets to tape
JCL can include optional pre- and post-action commands
Catalog tape
Read dataset
Process post-action commands (optional)

MDI CROSS-PLATFORM DATA SHARING
Move data to shared storage for processing by off-host applications
Execute or forward optional commands
EBCDIC-to-ASCII conversion
Authenticate with SAF via Pass Ticket
Move files as tape datasets for processing by mainframe
Execute or forward optional commands
ASCII-to-EBCDIC conversion

NFS STORAGE
Write files to shared storage
Application-specific directories trigger optional commands embedded in XPDS "profiles"

OFF-HOST PROCESSES
ETL
Archive
Analytics
Custom applications, etc



XPDS enhances data sharing with the ability to include user-defined commands, enabling bi-directional cross-platform workflows for greater efficiency, speed and security.

Benefits:

- On-demand, secure and easy access to data
- Bypass network congestion
- Low mainframe overhead
- Move data bidirectionally at up to 25 GbE speeds (per scalable channel)
- Free up MIPS currently being used by file transfers
- Eliminate computing and data silos

Features:

- Mainframe FICON I/O channel based data movement to and from NFS storage
- Pre- and post-action capabilities for automating cross-platform processes
- Distributed systems-initiated transfers and job launching with SAF governance

Luminex MDI: The platform that moves data up to 22.5x faster.

MDI XPDS uses the Luminex MDI platform, which provides secure and efficient interchange of data between mainframes and distributed systems via FICON channels and off-host processing. It includes a core transport system that enables bi-directional workflows for data sharing, transformation, and movement to Big Data applications, computing grids, low-cost NFS, SAN or object storage.

More MDI Solutions:

- MDI SLP™ for Data Analytics & Transformation
- MDI SecureTransfer™
- MDI zKonnect™ for Kafka
- MDI Cloud Data Sharing™
- MDI Big Data Transfer™

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