



PRIMEUR DATA MOVER®

DATASHEET



PRIMEUR DATA MOVER® is Primeur multi-protocol, multi-platform, managed and secure file transfer enterprise solution. It provides a centralized and easy-to-use solution for managing input, output, store-and-forward and internal file transfers.

DATA MOVER® relies on PRIMEUR DATA ONE® technology, exploiting its Contract Oriented Architecture® (COA®) methodology and its asynchronous event-driven model to become the central hub of the enterprise data integration.

Managed File Transfer (MFT) challenges

Modern organizations daily face the challenge to integrate different applications, business partners, IoT, Cloud and mobile apps, with secure data exchange flows. This integration process is always more and more related to data management, data transfer and data control. Indeed, applications need to process and share files (where most transferred data is held) and use them to communicate with each other. The continuous increase and variety of data exchanged, both inside companies and externally with third parties like customers, partners and suppliers, has become critical and forces most organizations to manage multiple file transfer protocols on different IT platforms and applications.

This situation needs a specific and secure IT strategy, especially today that files generated, processed and transferred are growing at an ever-increasing rate, multiplying the risks in terms of security, compliance and SLAs. The direct result is the increase in costs and data loss, creating serious operational problems and affecting productivity and profits.

Product summary

PRIMEUR DATA MOVER® provides secure MFT offering synchronous and asynchronous file transfer, based on user-defined rules, with full decoupling between data producers and data consumers for better scalability and flexibility.

DATA MOVER® supports different platforms and implements multi-protocol and protocol

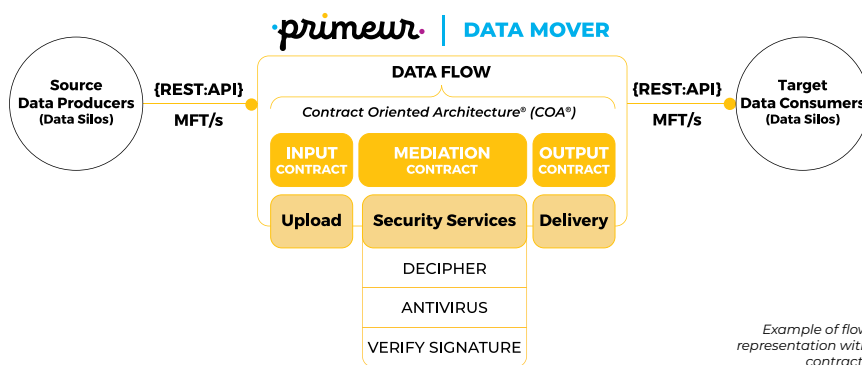
switching, also integrating and managing other MFT products.

DATA MOVER® provides an automated, monitored and secure environment to manage the file transfer needs of any type of enterprise, providing end-to-end visibility and supporting complex policies for flow control.

The core of our solutions: the Contract Oriented Architecture® (COA®)

PRIMEUR DATA MOVER® works on the Contract Oriented Architecture®, a methodology developed by Primeur based on 30 years' experience working with some of the most important Fortune 500 companies worldwide. Thanks to this methodology, all processes are based on the use of a clear tool: **the contract**.

In PRIMEUR DATA MOVER®, MFT flows are described and managed with contracts representing the sets of rules, policies and constraints defining the three common macro steps of an integration process: input, mediation and output.



Example of flow representation with contracts

COA® allows total control, savings and operative advantages, such as:

- 1 Easily change each phase without impacting Data Producers or Consumers.
- 2 Reuse contracts (or part of them) in other different integration needs.

Product differentiators

- **Powered by PRIMEUR DATA ONE®**

DATA MOVER® is based on PRIMEUR DATA ONE® technology, exploiting the use of COA® to describe and implement MFT. The results are:

- quick implementation of a file-based integration;
- less risk in implementation and testing;
- ease of management;
- a very high degree of reuse.

- **Storage technology decoupling**

- Data persistency is mediated by the Storage Class, an abstract entity that deals with the storage layer according to the security requirements of the business;
- The use of the Storage Class completely abstracts the data from its physical storage. DATA ONE® provides a hierarchical data visualization regardless of the storage type (including object store support);
- Possibility to change the security features and the storage layer, both in terms of location and technology, without impacting the MFT flow.

- **Asynchronous and fully decoupled**

Full decoupling between Data Producers and Data Consumers provides increased security and higher scalability.

- **Event-driven**

MFT flows react to events through Virtual Boxes, a powerful tool to define a set of data and associate events with its changes, allowing to:

- remove the need for systems to continuously check if new data is available or if anything has changed;
- improve elasticity of the integration process.

- **Flexible deployment**

- On-premises and on Cloud deployment;
- Integration with any third-party application using REST APIs;
- Support for warm deploy, high availability and scalability with easy clustering, load-balancing and failover between transport nodes.

- **Pluggable 3rd party technologies**

- Clean separation of file transfer definition from the physical protocol through contract definition;
- Any communication protocol can be used through plugins. *In case they are not available, the DATA MOVER® structure is designed to quickly integrate new protocols.*

Key business benefits

- **Fast and collaborative on-boarding**

An easy and fast collaborative provisioning of all the features and information useful to the realization of the flows is facilitated by:

- the modern and intuitive user experience;
- the clear organization in roles of the actors involved in the MFT flows;
- the breakdown of the flows offered by the Contract Oriented Architecture®.

- **Uptime and performance**

The DATA MOVER® architecture supports deployments that meet both high availability (clustering) and performance requirements, enabling horizontal scalability.

- **Improved IT-Business alignment**

The use of the Contract Oriented Architecture® combined with the DATA MOVER® event-driven model, provides a clear high-level representation of MFT flows, becoming the common language for the definition (at the business level) and the realization (at the IT level) of operative requirements.

- **Reliable security**

DATA MOVER® bases its security services on PRIMEUR DATA ONE® technology guaranteeing the highest level of security during authentication, transport, data at-rest and networking (DMZ Gateway).

• **Lowered operational costs**

Flexible deployment (on-premise and Cloud) and COA® methodology accelerate the definition phase of MFT flows and make them more manageable, requiring fewer resources.

• **ICT investments maximization**

PRIMEUR DATA MOVER® enhances the IT environment by integrating it and extending its features, thus preserving existing IT investments and modernizing the entire infrastructure.



Technical Specifications

Ubiquitous deployment on-premise and on Cloud:	Platform support: Linux, Windows, z/OS
IBM z/OS, IBM iSeries, Windows, Linux Databases:	Oracle database
File transfer protocols Multi-protocol support and protocol switching:	FTP - SFTP - FTPS - HTTP/s - PeSIT Primeur proprietary protocols: PR4, PR5, PR5S
Supported third-party MFT tools:	IBM Connect: Direct - Axway Secure Transport
Data Conversion:	Charset ID Management - ASCII to EBCDIC - EOL/EOR conversion from different platforms - DOS to Unix, etc.
Encryption:	Integration with GnuPG and PKI for signing and encryption
Encryption protocols:	AES256 - PGP - SSL/TLS - S/MIME - CADES - PKCS#7
Authentication Pluggable user authentication on:	MS Active Directory Server - File based user repository - OpenLDAP Server - z/OS RACF - RADIUS / OTP
Authentication:	OpenID Connect and Kerberos support
DMZ:	<ul style="list-style-type: none"> • No files residing on the DMZ • No opening of input ports on the firewall irrespective of the file transfer direction • File transfer session termination on the DMZ before propagation into the Intranet
Compliance:	FIPS140-2 - PCI DSS - GDPR
Flexibility:	<ul style="list-style-type: none"> • Simple and powerful RESTful MFT API for bulk upload and download • Built-in BPMN engine with an easy-to-use graphical interface allowing to implement any MFT use case, including the ability to invoke API, Command line, external script engines or third-party applications. • File-driven, event-driven and on-demand automation, customized actions are triggered on specific conditions. • A rich set of transport policies allows establishing timely rules for limiting the number of simultaneous transfers and prioritizing between flows, allowing organizations to align MFT capacity with business needs.

Deployment

A typical PRIMEUR DATA MOVER® deployment is composed of the following components:

1

Central Manager

The “brain”, a single point for administration, management and monitoring. It is responsible for overseeing data integration commands, control tasks and orchestrating operations of any component including the orchestration of actions on one or more Transport Engines. It offers proactive monitoring/alerting and dashboarding functions.

2

Transport Engine

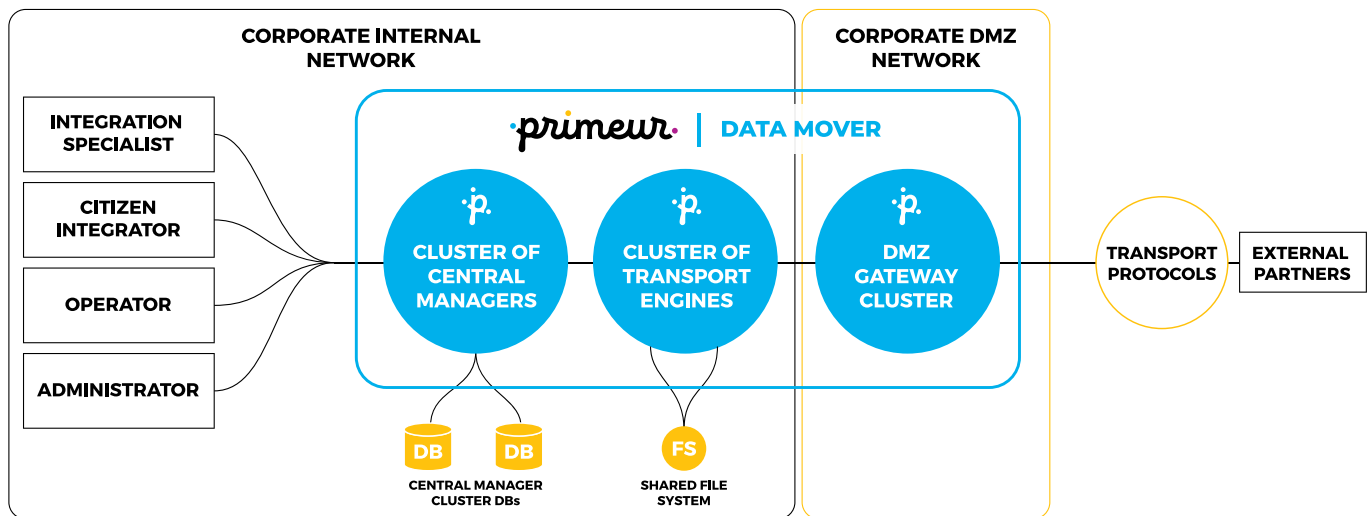
The “execution agent” in charge of performing executive tasks such as file transfers, data compression and data encryption. These activities include acting as a server and allowing users to upload and download files or acting as a client pushing and pulling files from remote servers. It also stores files and metadata on the physical system.

3

DMZ Gateway

The “security guard” responsible for isolating senders or receivers sitting outside of the Intranet. It allows to open only outbound ports on the firewall irrespective of data transfer direction. Optionally, the DMZ Gateway terminates file transfer sessions originating on the Internet before propagating them in the Intranet.

Sample deployment



For more information: datamover@primeur.com

About Primeur

We are a Smart Data Integration Company, with an unconventional philosophy. For more than 30 years we have been serving some of the most important Fortune 500 companies with our unconventional approach, our problem-solving attitude and our software solutions.

Our goal is to help Companies to manage and control the data they generate, use and analyze without interfering with the existing IT systems and applications.

We make Data Integration simple, accessible, secure and sustainable over time.

We help Companies to work better and smoother, preserving their existing systems and IT investments. We Are Primeur.