

Let's Solve

mosaic decisions

Datasheet

Simplified Data-to-Decisions @Speed & @Scale

Self-served, unified data logistics platform for accelerated business outcomes @Speed and @Scale

#DataIntegration #ETL #DataOnCloud #DataLogistics #ServerlessExecution #ComputingAtScale #AnalyticsWorkbench #DataSecurity #DataGovernance #DriverlessETL

Modern Data Logistics Platform

Mosaic Decisions platform provides Data-as-a-Service offering and is designed for ease of data orchestration, data processing, and machine learning feature engineering, to deliver use cases for accelerated and data-driven decision-making. Equipped with capabilities such as data ingestion, processing & transformation, governance, and advanced analytics, the platform is scalable and decodes structured & unstructured data at an enterprise scale.

The platform mitigates the challenges of data democratization and its accessibility across the enterprise data community users like data engineers, analysts, and scientists, with a robust meta driven service-based architecture purpose-built for faster data orchestration and processing.

Better Footsteps From Data To Decisions



Simplified Driverless ETL

Enterprise data integrator & orchestrator platform with a configurable runtime engine



Cultivate Data Ecosystem

Enterprise data catalog with pre-built data connectors and data quality management



Ease Of Use

Drag & drop features with self-service toolkit integrated with enterprises' governance



Modular Architecture

Faster & efficient engineering operations & technology abstraction



Scalability & Availability

Serverless, multi-cloud scalable deployment utilizing cloud native services



Enterprise Governance & Security

Demystify Lineage with one-stop-shop for enterprise governance and security

Product Features - Ingest | Process | Integrate | Operationalize

Core Features - Ingest, Transform & Prepare

Drag-and-drop interface to orchestrate data pipelines for ingestion, validation, transformation, and preparation.

Data Orchestration	Enhanced Design Canvas to Drag-and-drop, automate, manage and schedule data processing elements.
Data Ingestion	Connect & push/pull data at source of various types including structured, semi-structured, and unstructured formats into an enterprise data lake or build a new data lake.
Data Exploration	Readily available basic profiling on defined sample data size and describe the data of various scale types, like text, categorical, constant and continuous, by means of statistical and visualization techniques.
Data Transformation & Validation	Apply mathematical checks and business rules at field level as part of validation & complex transformation, using an inbuilt library of 200+ functions.
Data Connectors	50+ connectors for varied format types - RDBMS, files, cloud storages, NoSQL, streams
Advanced Connectors	Connectors for cloud storages, data aggregators, third party applications, etc.
Data Preparation	Gather, combine, structure, and organize data for summarization, aggregation, visualization, and analytical consumption.
Data Pipelining	Connect a set of data processing elements in parallel or in time-sliced fashion. Apply various readily available processing elements such as sort, lookup, join, transform, grouping, etc.
Data Storages	Agonistic to storage layer. Connect, process and store data on any of the storage systems like HDFS, file systems, RDBMS, cloud storages, etc.
Data API	Data-as-a-Service provisioning of dynamic data access using generated API key and URL for created data end points.
Federated Query	Query engine to access and join data from various sources without the need of physical movement of data or data integration.

Process, Discover & Collaborate

Self-served, collaborative platform with different processing modes of data pipeline and metadata management.

Batch and Micro	Create batch and micro batch data pipelines to ingest and process data for end user consumption.
Streaming	Create real-time data pipelines with integration to messaging queues, without any loss of messages from a topic during failover scenarios.
Data Catalog	Provision to curate, manage and organize varied data assets of the enterprise.
Business Glossary	Create and manage enterprise data dictionary and standardize the business glossary of the enterprise.
Application Sharing	Collaborate and share processes and data assets across data teams through notification mechanism and access management.

Extend, Runtimes & Integration

Extending into driveless ETL analogy by executing the same data pipelines with different runtime execution engines.

Snowflake	Efficiently integrate & manage data ingestion & transformations for Snowflake, to harness high performance and scalability of snowflake's cloud-native architecture.
Spark	Platform with fast and scalable runtime processing engine powered by spark in-memory processing.
Custom Reusable Components	Custom code execution extensibility as part of data pipeline execution.
JDBC Connectivity	Provides JDBC connection to access data outside the platform environment.
Web Services	Platform communicates using RESTful web services to provide standardized way of interoperability of information with other application using https protocols.

Operationalization & Change Management

Manage and monitor the enterprise platform standards and best practices.

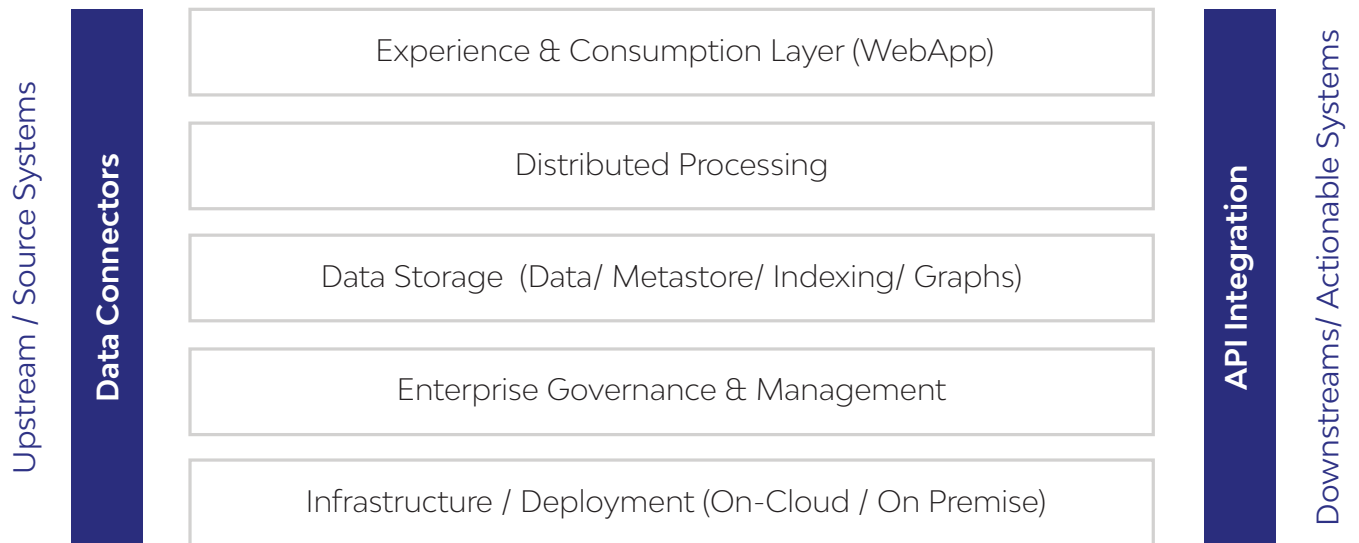
Scheduling	Drag-and-drop canvas for data pipeline dependency and scheduling supported with open source scheduler, Azkaban. Configure scheduler APIs to execute with any enterprise scheduling tool.
Monitoring	Monitor step-by-step execution of data pipelines and view error log snapshot for failed pipelines, along with historical runtime executions and log history.
Run Configuration	Manage cluster utilization by setting granular control of resource allocation on specific data pipeline.
Metadata Management	Manage information about various data assets and establish policies and processes to ensure information can be integrated, accessed, shared, linked, analyzed and maintained across the enterprise.
Spark On Kubernetes	Auto scaling with Kubernetes adoption and PAAS architecture on cloud platforms allowing freedom to move workflows.

Governance & Security

Integration with enterprise governance and security measures using the administrator workbench integrated with platform.

Role Based Access Management	Platform allows role-based access to a user. These are developer, operator, and administrator roles. Sharing of data pipelines and other elements are based on owner, contributor, and reviewer access.
Authentication & Authorization	Manage platform feature access based on user personas. Effective user management to manage and sync users, groups, roles, and actions from the enterprise's LDAP or AD.
Audit Management	Dashboards with enhanced views to perform checks on users, their activities, and operations on the platform.
Lineage	Mapping of data set with other datasets and their attributes from source to target with related transformation information across applications and processes.

Product Architecture -



Deployment Options

Flexibly deploy on cloud or on-premises



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Simplify Data-to-Decisions @Scale

Request a Demo @ <https://www.lti-mosaic.com/>

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