

MarkLogic Connector for MuleSoft's Anypoint Platform

Data Integration – Simpler, Faster

Increasingly, enterprise and government organizations require a 360° view of their most important data to achieve business objectives. Unfortunately, inflexible legacy technologies make integrating data from structured and unstructured sources an ongoing challenge.

Our modern solution simplifies and speeds up the data integration process. MuleSoft's Anypoint Platform, combined with the MarkLogic Data Hub Platform, helps organizations connect applications, devices, and data from any source – and curate and govern the data throughout the process. Together, the MuleSoft and MarkLogic stack is a powerful combination that helps agile teams speed up project delivery and reduce risk in the process.

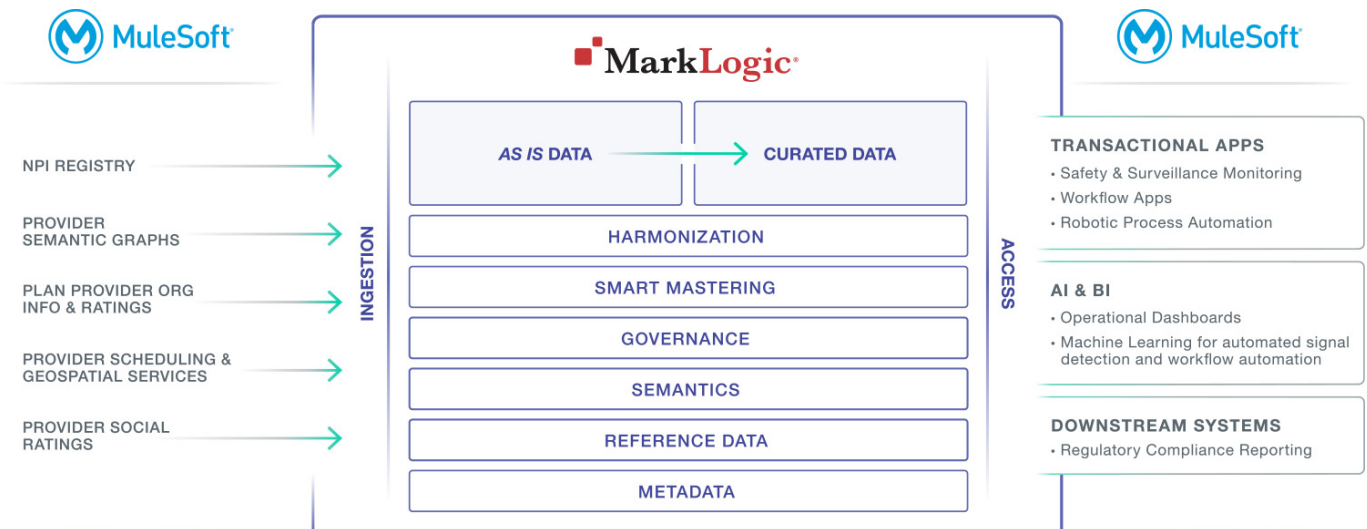
Key Benefits

Manage your changing network of applications and data, speeding delivery of every project:

- MuleSoft assists in building your application network and pluggable assets. The MuleSoft Anypoint Platform provides full API lifecycle management, gives developers the tools they need to design new APIs quickly, and opens up access to hundreds of connectors through the Anypoint Exchange
- MarkLogic provides the data integration and persistence layer where data is ingested from any source, harmonized, enriched, curated, and governed. Data can then be securely accessed and shared across the MuleSoft API ecosystem

Platform Overview

The below reference architecture shows an example of how the MarkLogic's flagship product, the MarkLogic Data Hub Platform, integrates with the MuleSoft Anypoint platform. This architecture is an example of a specific use case within healthcare, showing how public and private data is integrated into MarkLogic, harmonized and governed, and then made accessible for transactional applications, AI and machine learning, business intelligence, and other downstream systems. It is not just for healthcare though, the platform is designed handle any data source from any industry.



What MarkLogic Provides

MarkLogic addresses the complexities of data integration by simplifying it with MarkLogic Data Hub Platform, built on the MarkLogic multi-model database. As a database, MarkLogic provides the data persistence layer. As an integration platform, MarkLogic provides a single source of truth across all sources of data, and has transactional capabilities that enable it to power both operational and analytical applications.

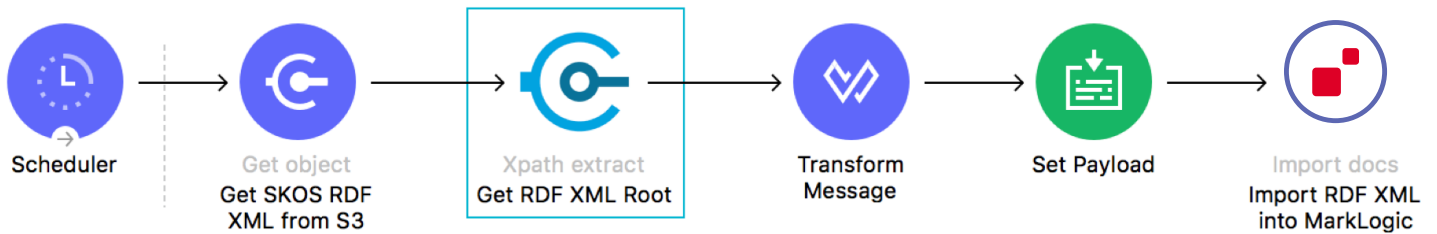
The MarkLogic Data Hub drives innovation and efficiency by simplifying data integration:

- Achieve a 360° view of data from every source without having to wait on time consuming ETL processes. MarkLogic ingest data *as is*
- Harmonize, enrich, and master data right in the Data Hub, without having to buy a separate (expensive) MDM tool
- Leverage built-in search capabilities for real-time search and discovery, without having to manage a separate search engine
- Improve data security and governance with tight control over data sharing and full lineage tracking

How It Works

The MarkLogic Connector for MuleSoft's Anypoint Exchange delivers data movement and transformation capabilities for use within MuleSoft Anypoint Studio and Flow Designer. Anypoint Studio and Flow Designer are MuleSoft's Eclipse- and web-based graphical IDEs used to design, author, and run flows.

Under the covers, each flow in MuleSoft is an XML file defining the workflow. This is a perfect fit for MarkLogic, which natively stores XML, and developers can even author flows entirely in XML if they choose. The MuleSoft Connector for MarkLogic is built atop the MarkLogic Java Client API and Data Movement SDK (DMSDK). The Connector is based on the Mule 4 Runtime Engine, Mule SDK 1.1, and is developed and tested with Anypoint Studio 7.



The above flow shows how the MarkLogic Connector for MuleSoft works to get XML documents and RDF triples (graph data) into MarkLogic.

About MarkLogic

Data integration is one of the most complex IT challenges, and our mission is to simplify it. The MarkLogic Data Hub is a highly differentiated data platform that eliminates friction at every step of the data integration process, enabling organizations to achieve a 360° view faster than ever. By simplifying data integration, MarkLogic helps organizations gain agility, lower IT costs, and safely share their data. Organizations around the world trust MarkLogic to handle their mission-critical data, including 6 of the top 10 banks, 5 of the top 10 pharmaceutical companies, 5 of the top 10 publishers, 9 of the 15 major U.S. government agencies, and many more. Headquartered in Silicon Valley, MarkLogic has offices throughout the U.S., Europe, Asia, and Australia. For more information visit www.marklogic.com.



MuleSoft's mission is to help organizations change and innovate faster by making it easy to connect the world's applications, data and devices.