

MuleSoft and MarkLogic: Making Simplified Data Integration Even Faster

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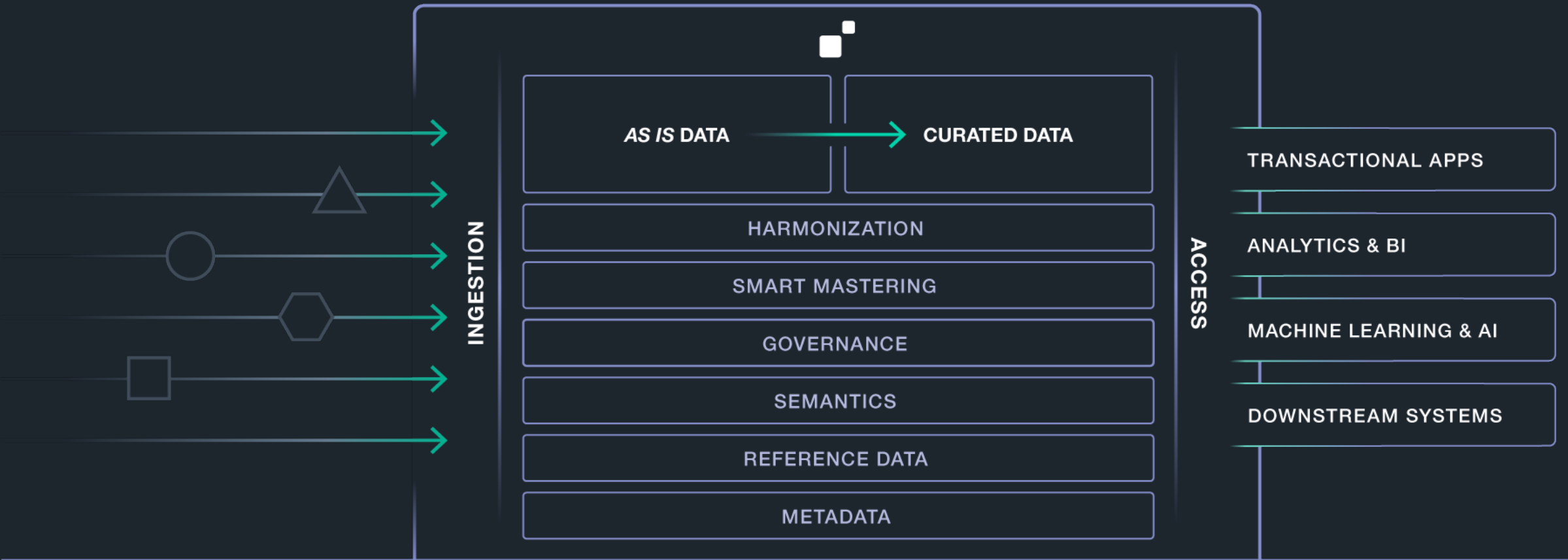
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Consultant, MarkLogic

MarkLogic Data Hub Platform



MuleSoft Overview





salesforce

MuleSoft + MarkLogic

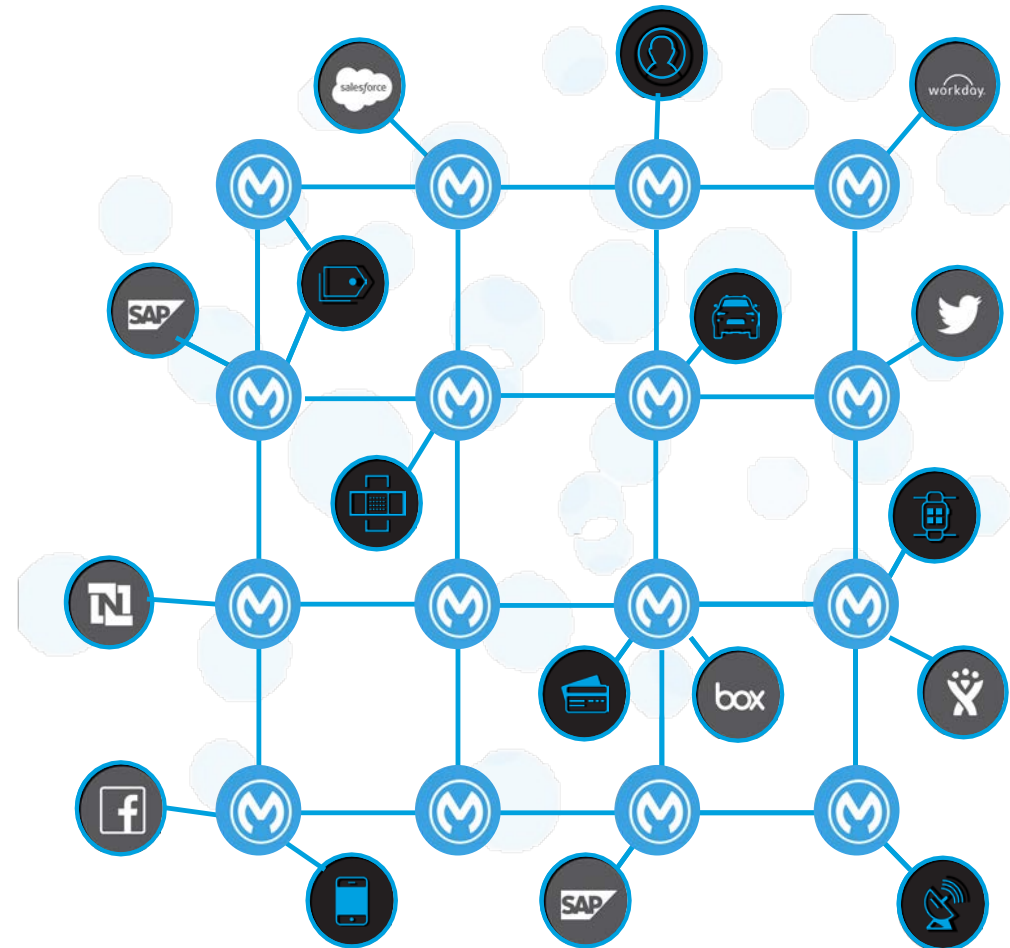
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May 15, 2019



MuleSoft provides a software platform that enables organizations to create a network of applications, data, and devices using APIs.



MuleSoft's Mission



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



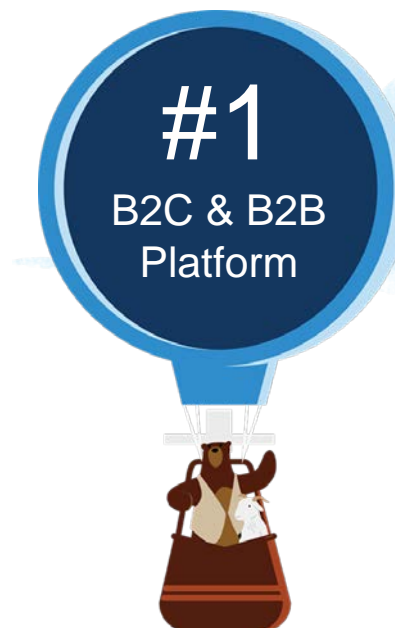


1,400 Customers



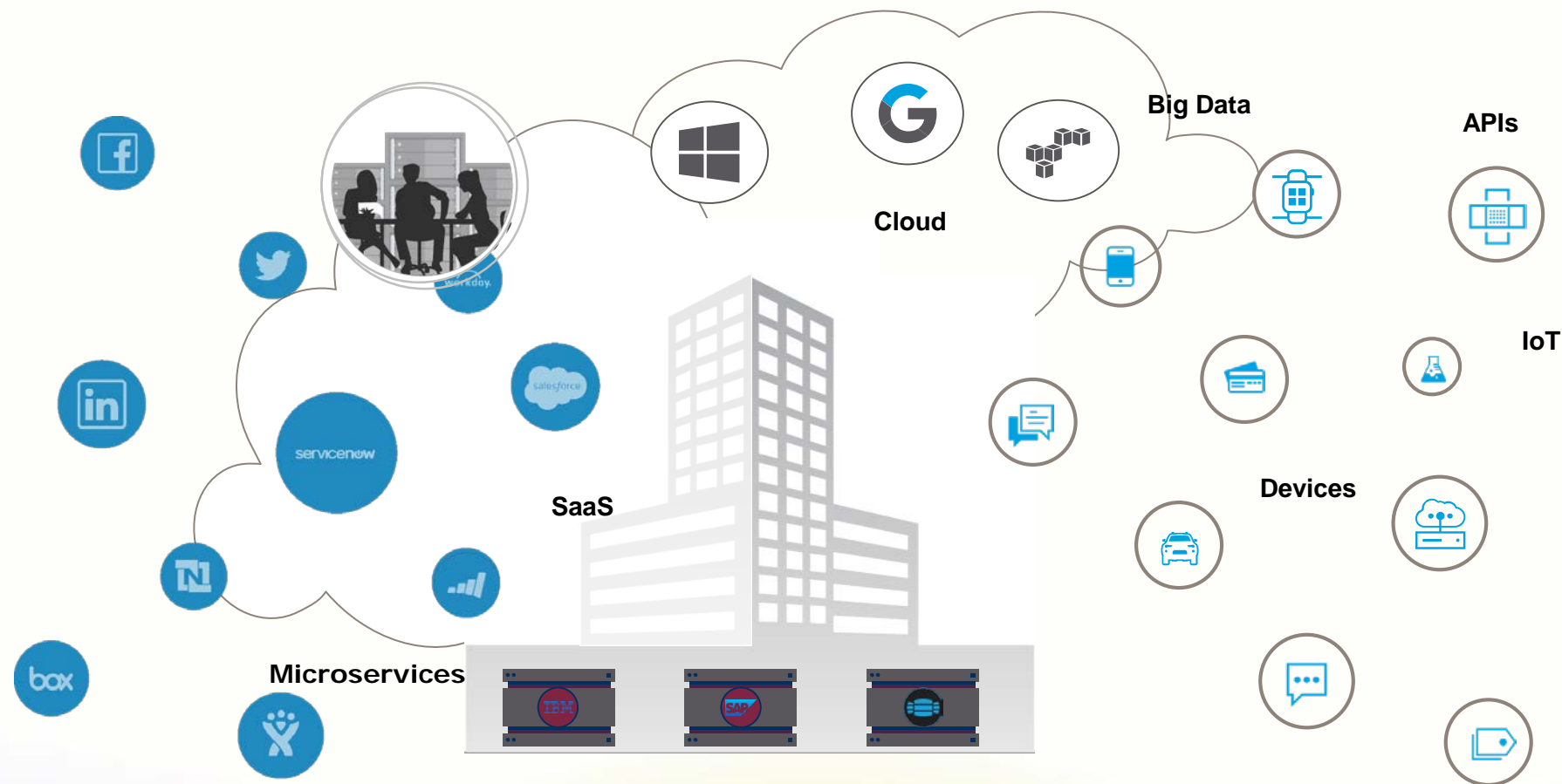
Customer Success Platform

For the Fourth Industrial Revolution

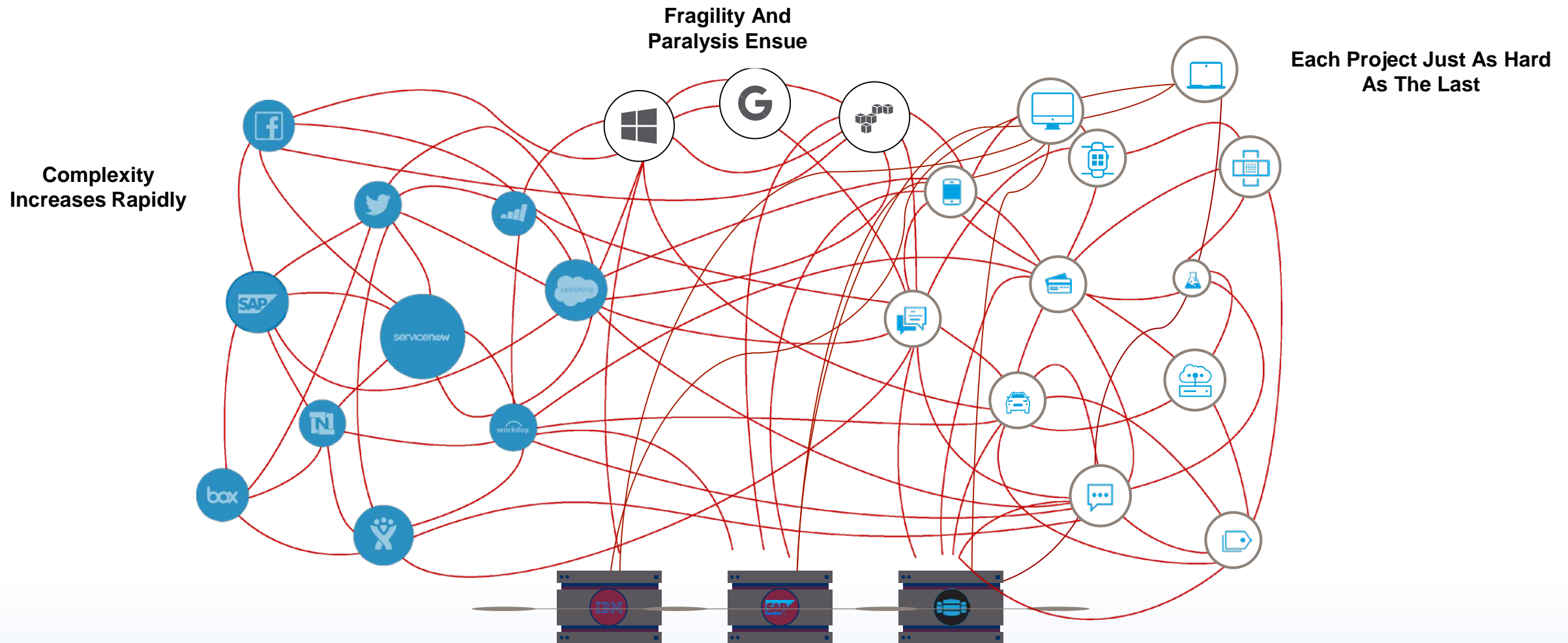


So what problem
are we solving?

Data and business apps are increasingly distributed



Traditional integration approaches make IT a bottleneck



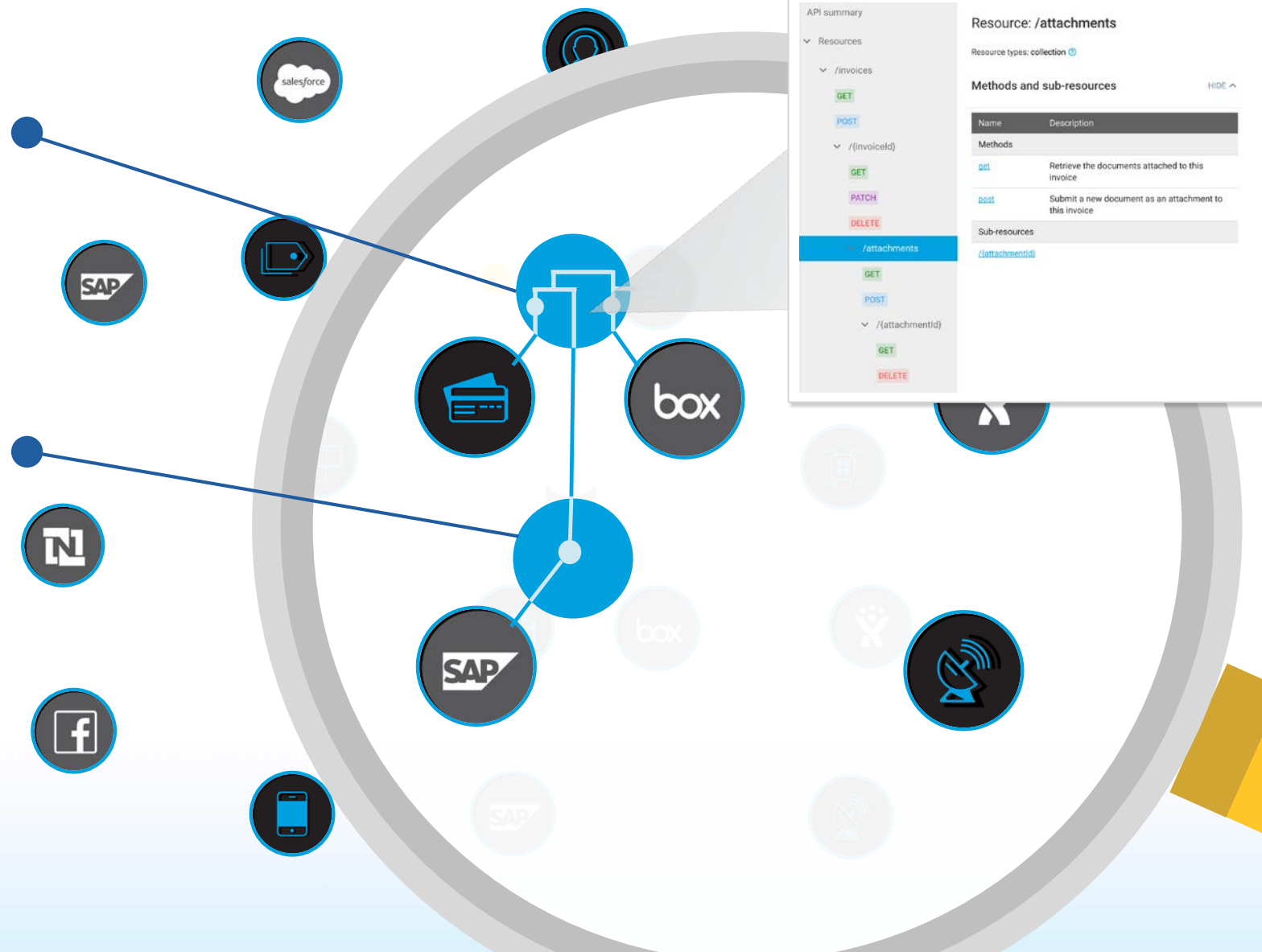
So how does MuleSoft
solve this problem?

Mock and Build APIs

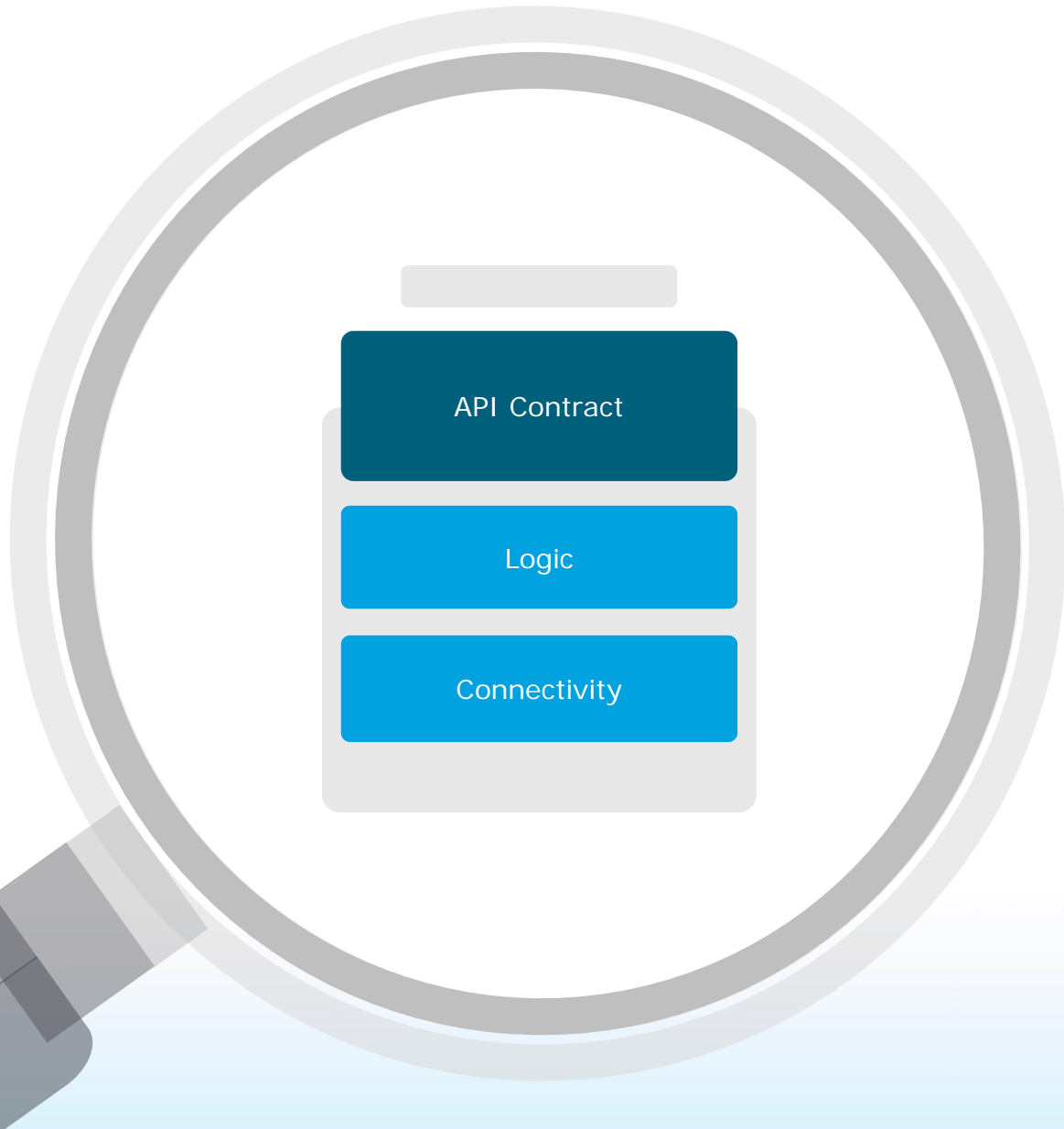


creating an
enriched invoicing
API product

creating an invoicing
API product on SAP



Core capabilities become reusable API building blocks



Compete by leveraging core competencies



APIs give you a standardized way to amplify your unified customer journey

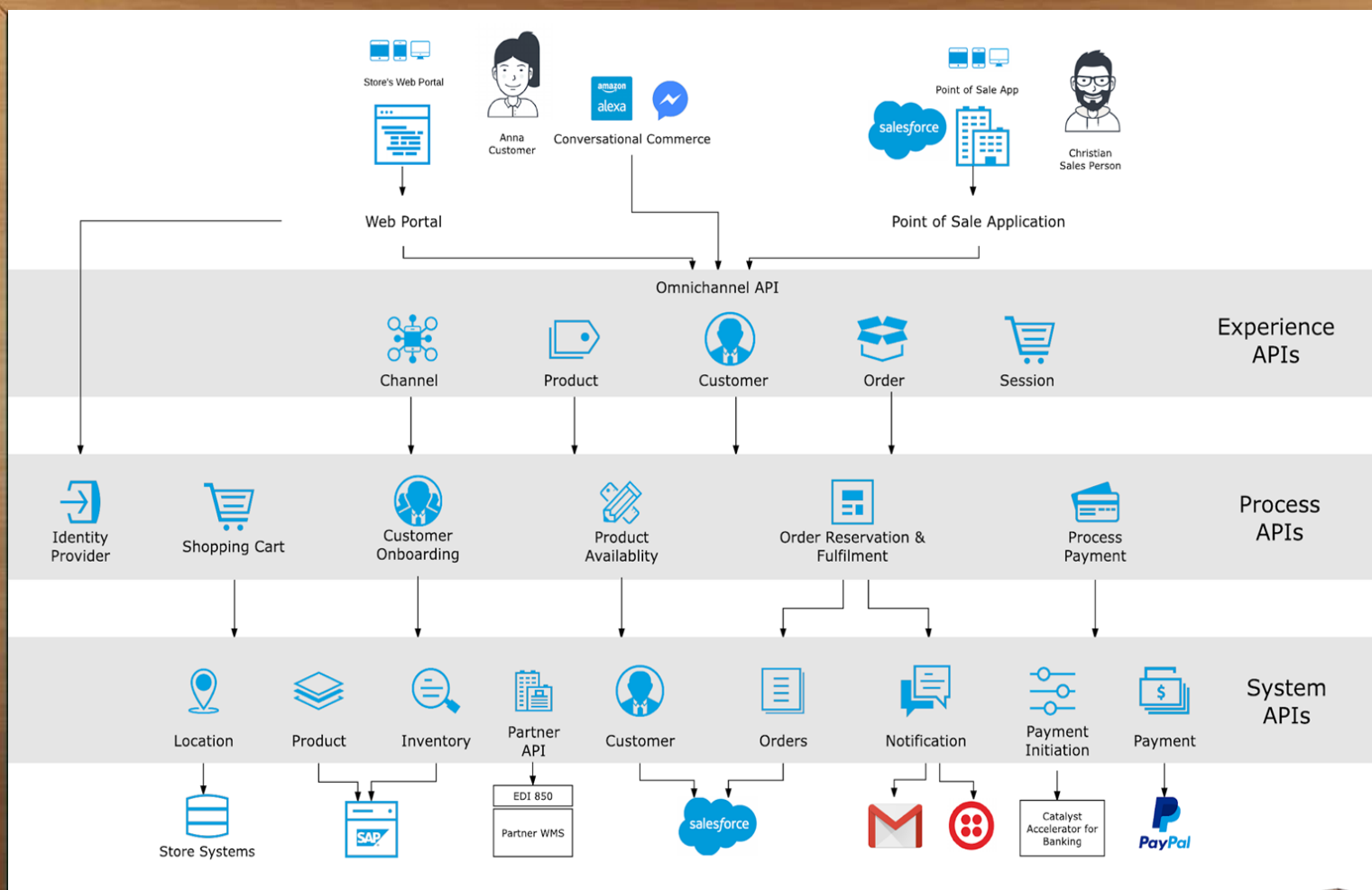


Secure and governed access to core systems



Can be moved across environments without re-development work

API-led Connectivity: A Modern Approach to Integration



Common Initiatives:

Build a Customer 360

Modernize Legacy Systems

Create Omni Channel Experiences

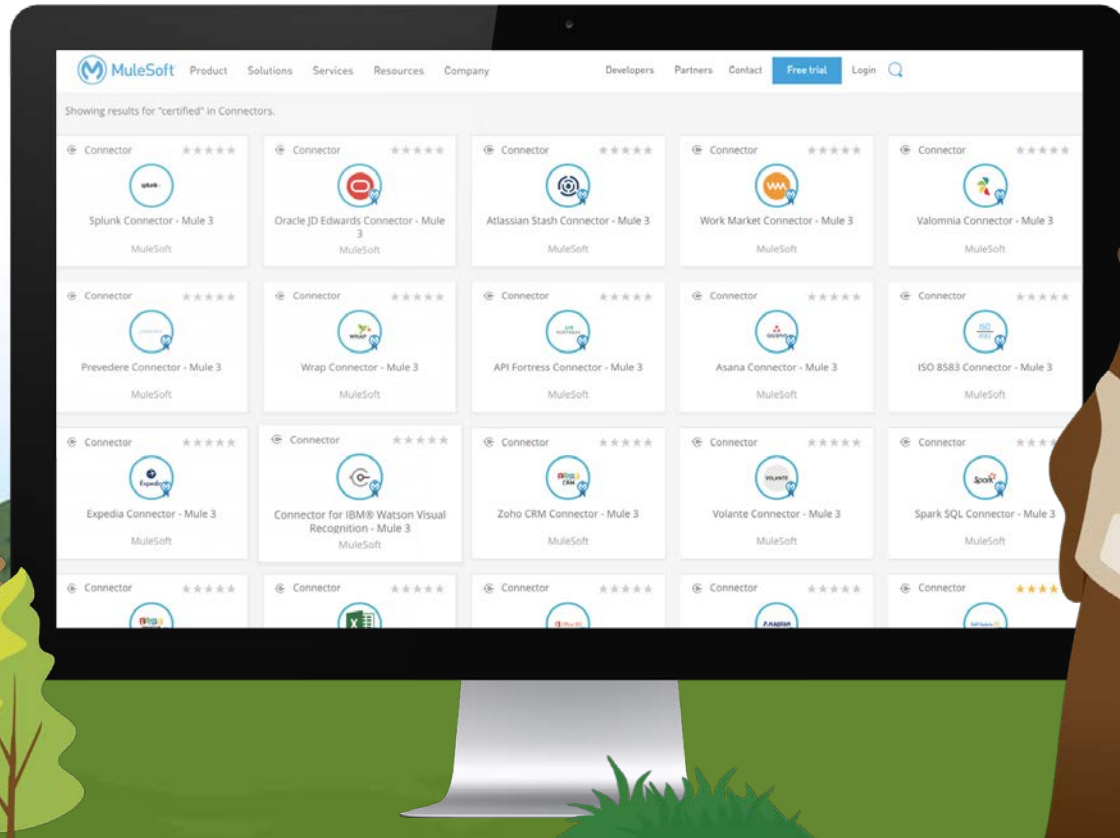
Connect E-Commerce

Develop Mobile Apps

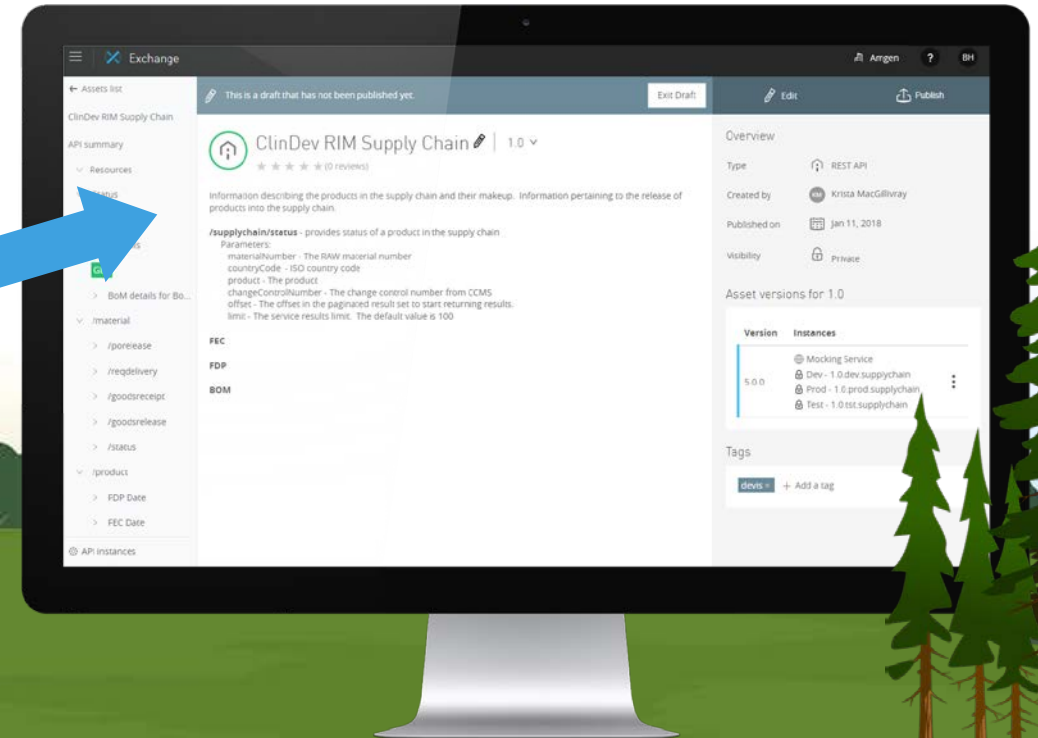
Anypoint Exchange - Reusable Assets



Anypoint Exchange (Public and Private)



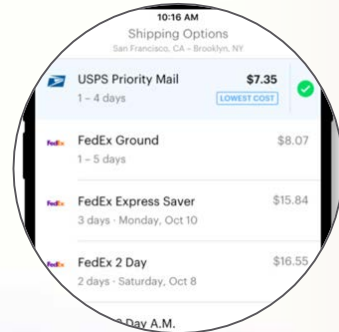
API Consumer Experience



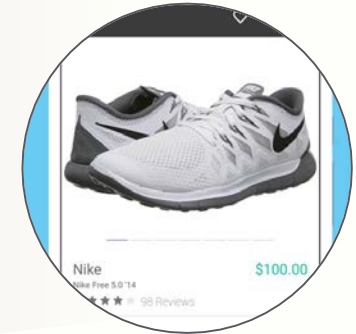
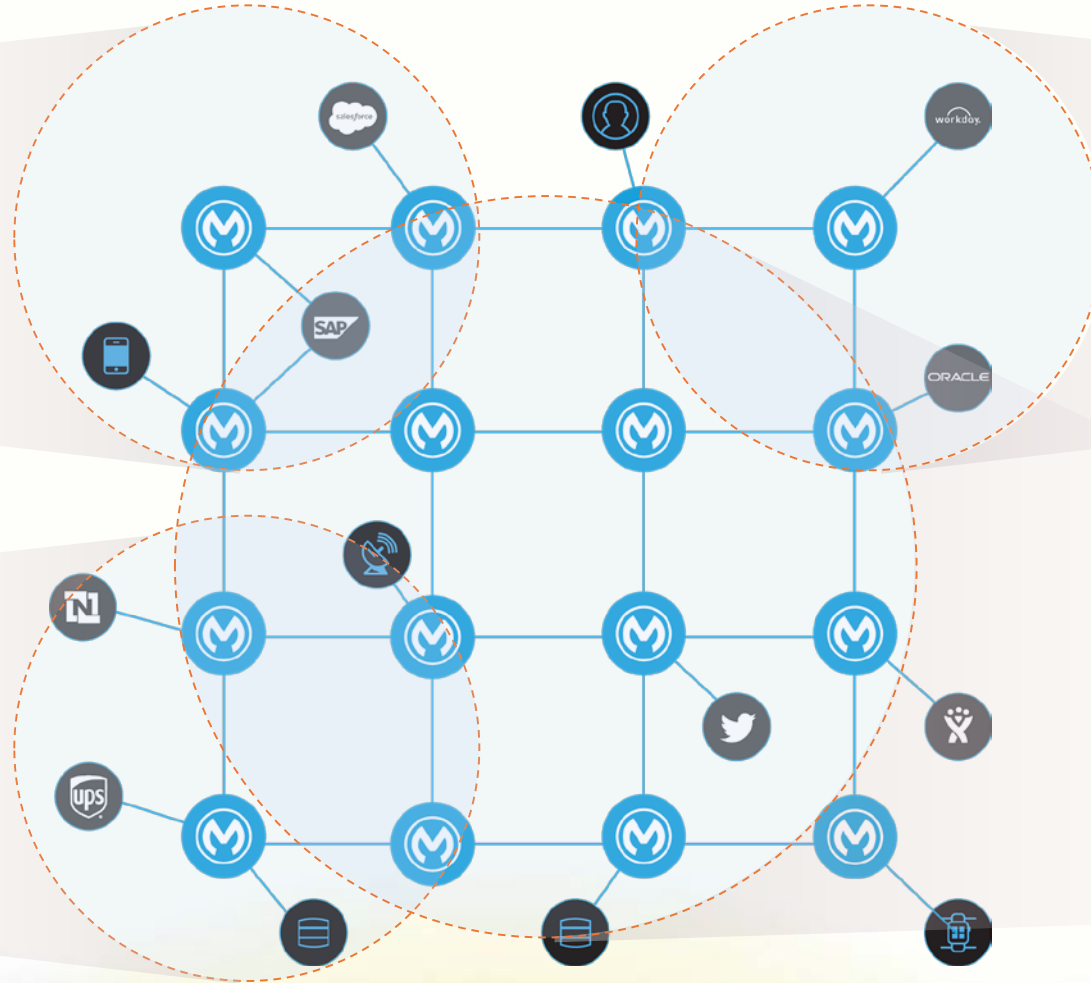
An Application Network emerges



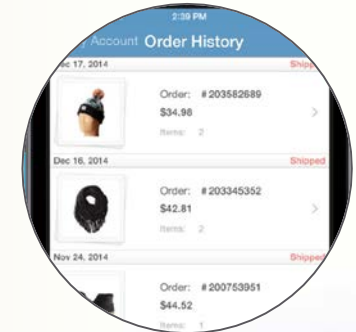
System connections
& integrations



Shipping
& Fulfillment

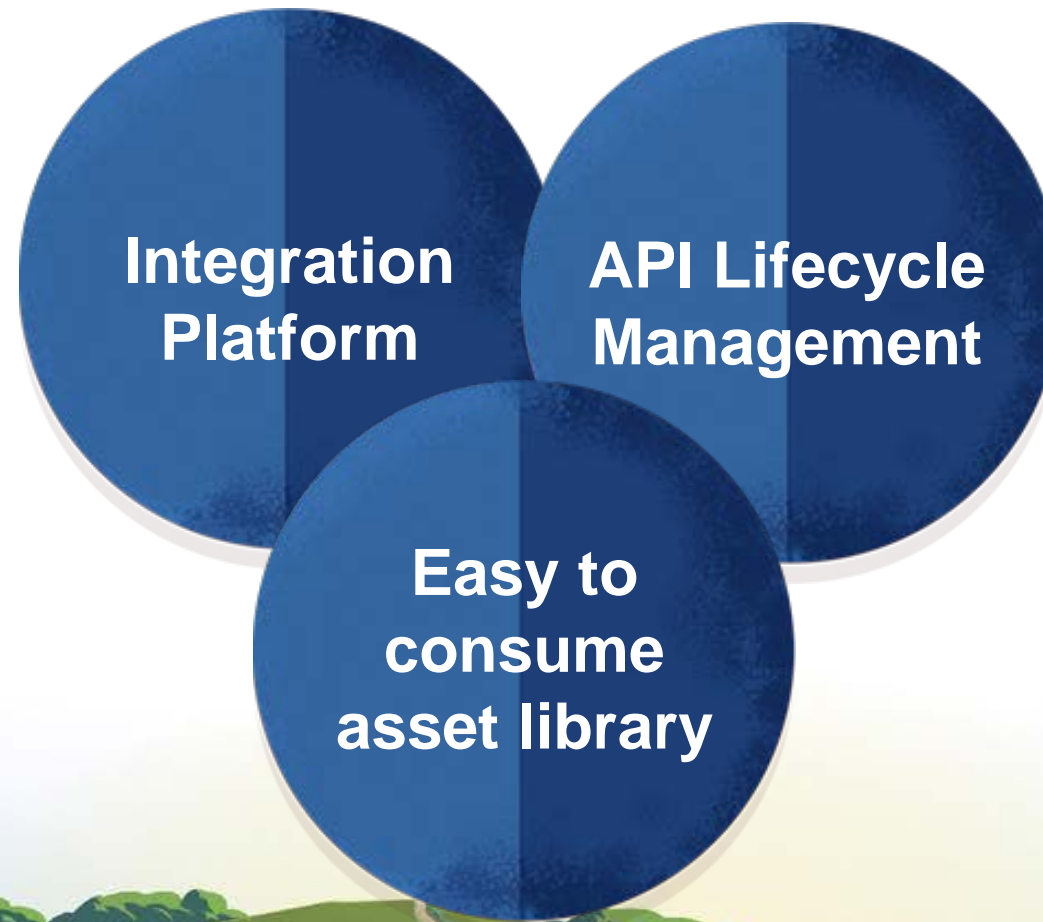


Inventory



Customer
Experience

APIs + Integration - Digital Transformation





MuleSoft + MarkLogic =
Better Together

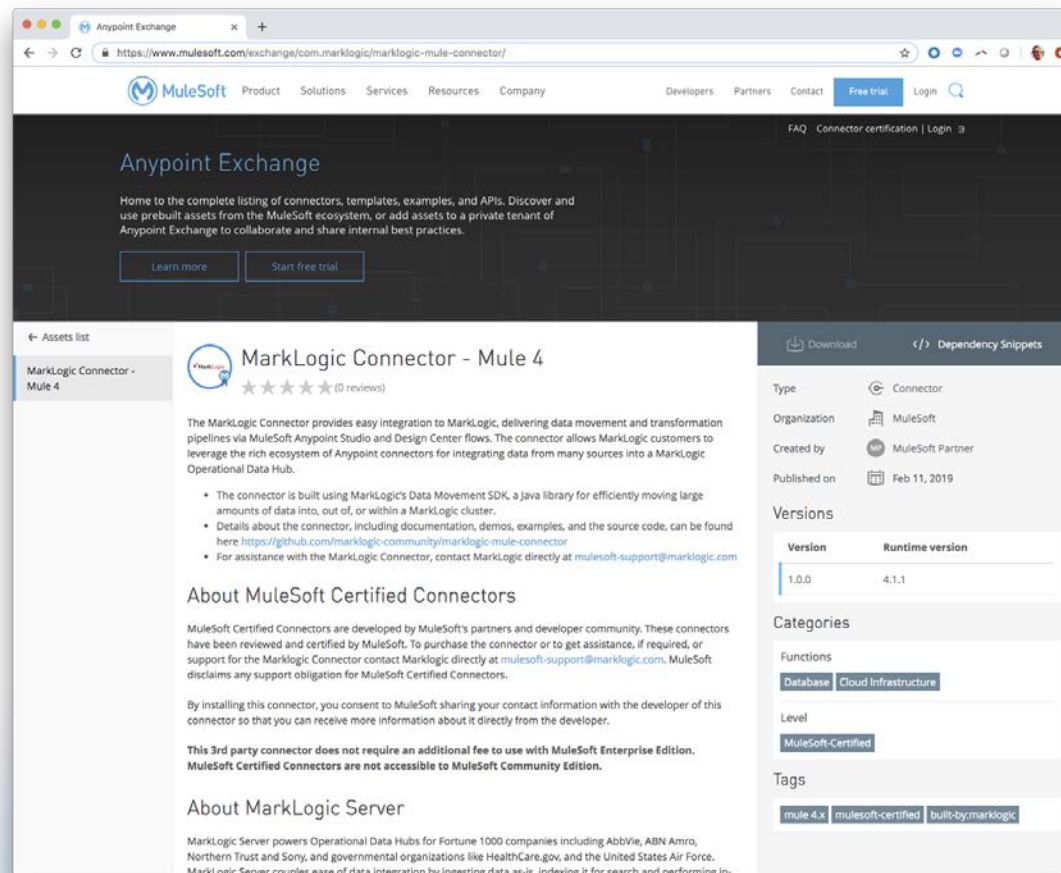
MarkLogic Connector for Mule 4



- Provides easy integration to MarkLogic, delivering data movement and transformation pipelines via MuleSoft Anypoint Studio
- Connector allows customers to leverage rich ecosystem of Anypoint Exchange connectors for integrating data from many sources into MarkLogic
- Connector is built using MarkLogic's Data Movement SDK, a Java library for efficiently moving large amounts of data into, out of, or within a MarkLogic cluster

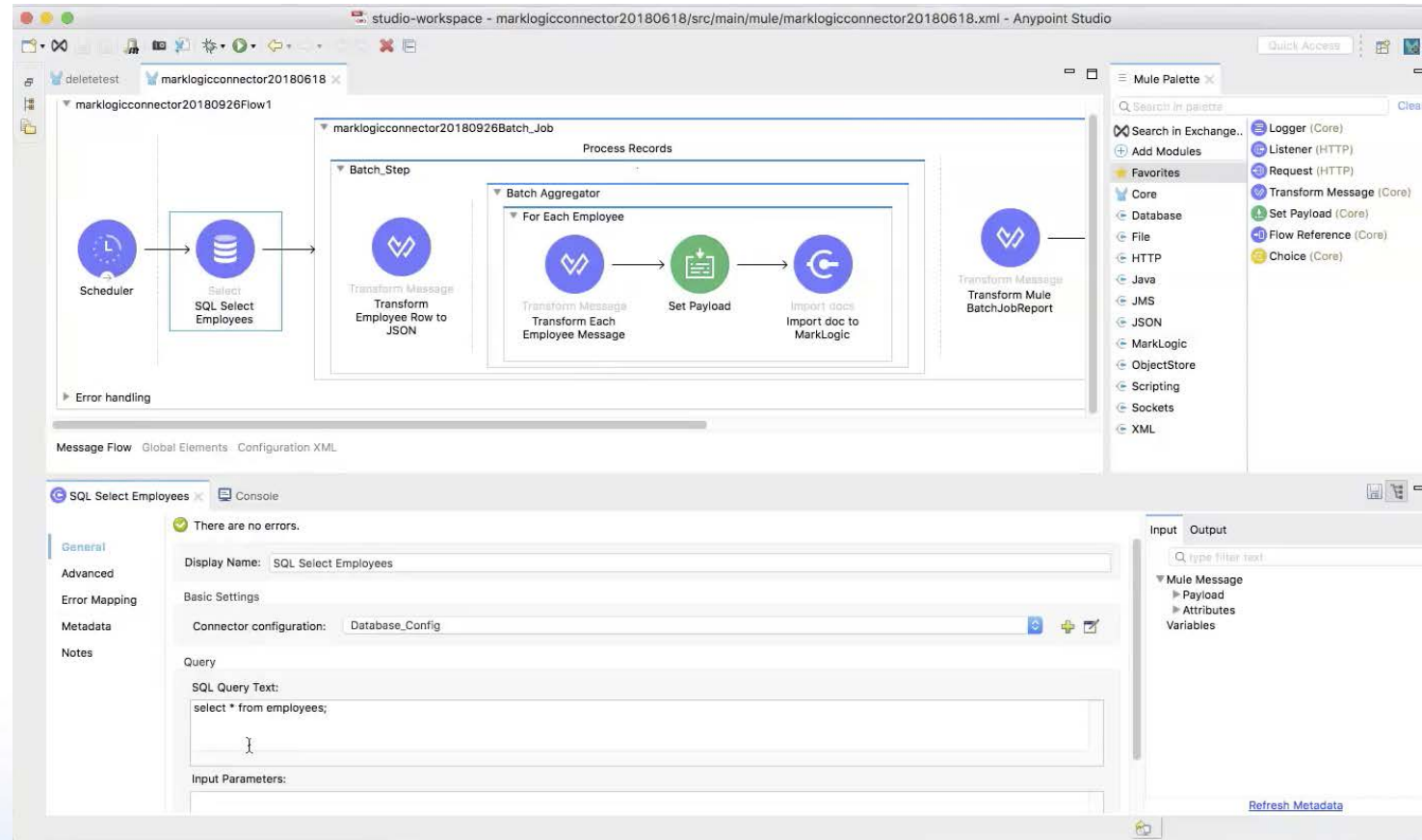


MarkLogic Connector for Mule 4



- 30 Day Free Trial of MuleSoft Anypoint Platform
- All connectors are viewable and most are downloadable at mulesoft.com/exchange
- Our tech partner program is open to all ISVs
- Check out the new MarkLogic connector for Mule 4
- If you have any questions, email isv@mulesoft.com

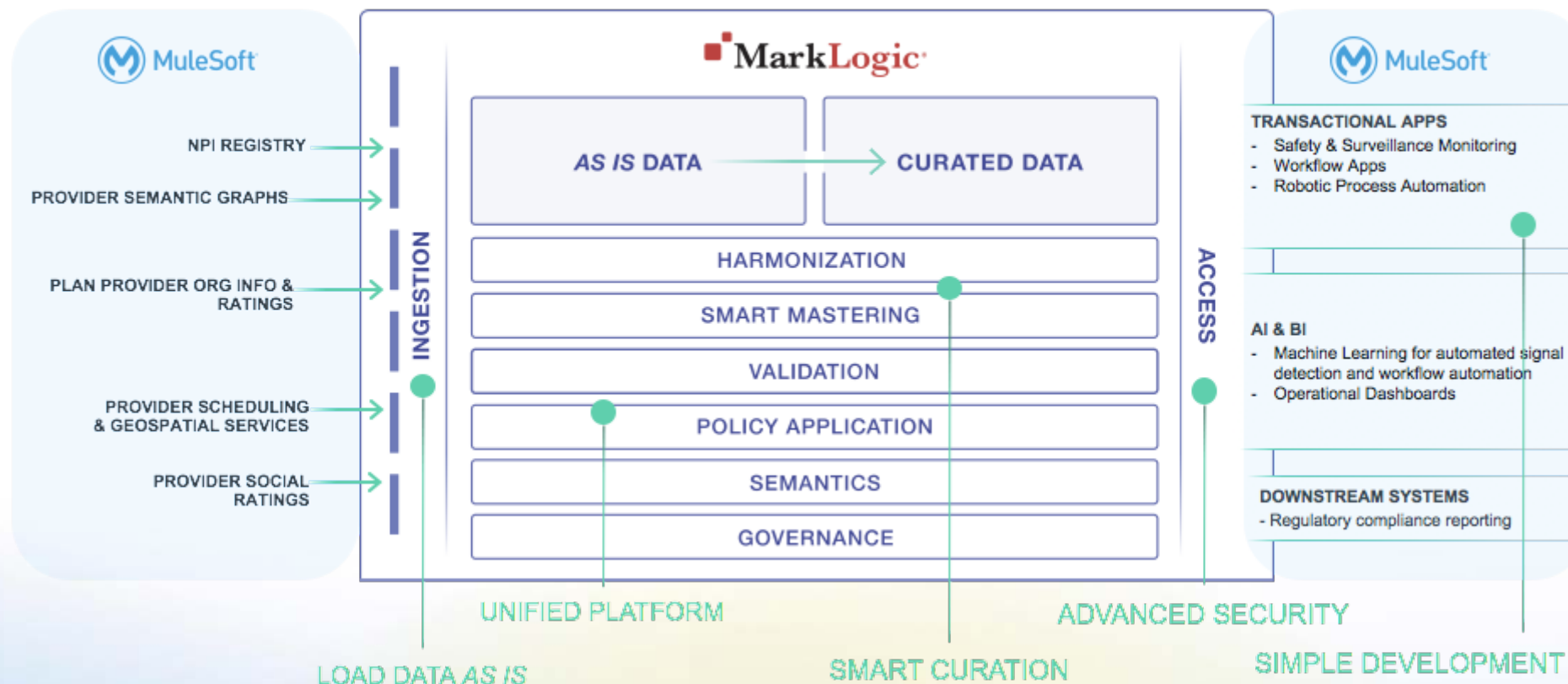
Anypoint Studio: Easy to Configure a Mule flow



MuleSoft + MarkLogic Enables Customer 360



MarkLogic Data Hub for Provider 360



THANK Y☁U





MarkLogic Connector for MuleSoft

About the Connector

- MuleSoft Connectors are all Java-based, but with an “API First” RESTful mindset
- The MarkLogic MuleSoft Connector uses Java Client API and Data Movement SDK
- **Release version 1.0.0** is available via the MuleSoft Anypoint Exchange:
 - <https://www.mulesoft.com/exchange/com.marklogic/marklogic-mule-connector/>
- MarkLogic Community GitHub:
 - <https://github.com/marklogic-community/marklogic-mule-connector>



MarkLogic MuleSoft connector roadmap

- **Release version 1.0.0 (Released: February 2019)**
 - Initial connector release, focused on importing data into MarkLogic from a MuleSoft Flow
 - MuleSoft Certified, and available on the Anypoint Exchange
 - Based on MarkLogic Java API 4.0.4
 - importDocs (for writing JSON, XML, Text, or Binary to MarkLogic)
 - getJobReport (for reporting DMSDK job outcomes)
 - Support for digest and basic authentication only; no SSL support yet



MarkLogic MuleSoft connector roadmap

- **Release Version 1.1.0 (Anticipated release: late May 2019)**
 - Adds the ability to query and delete documents in MarkLogic; also adds SSL support
 - Based on MarkLogic Java API 4.2.0
 - deleteDocs (by Structured Query or CTS Query)
 - queryDocs (by Structured Query or CTS Query)
 - importDocs enhanced to support temporal collections, for bitemporal
 - Support for SSL and certificate authentication



MarkLogic MuleSoft connector roadmap

- **Version 1.2.0: (Anticipated Release: August-October 2019)**
 - *Submit your ideas!*
 - REST integration with Data Hub Framework for Orchestration
 - Support for custom REST resource extensions
 - Semantics support: RDF ingest and SPARQL query support



Demo

Orchestrating an Employee 360 Data Hub Integration Using MuleSoft

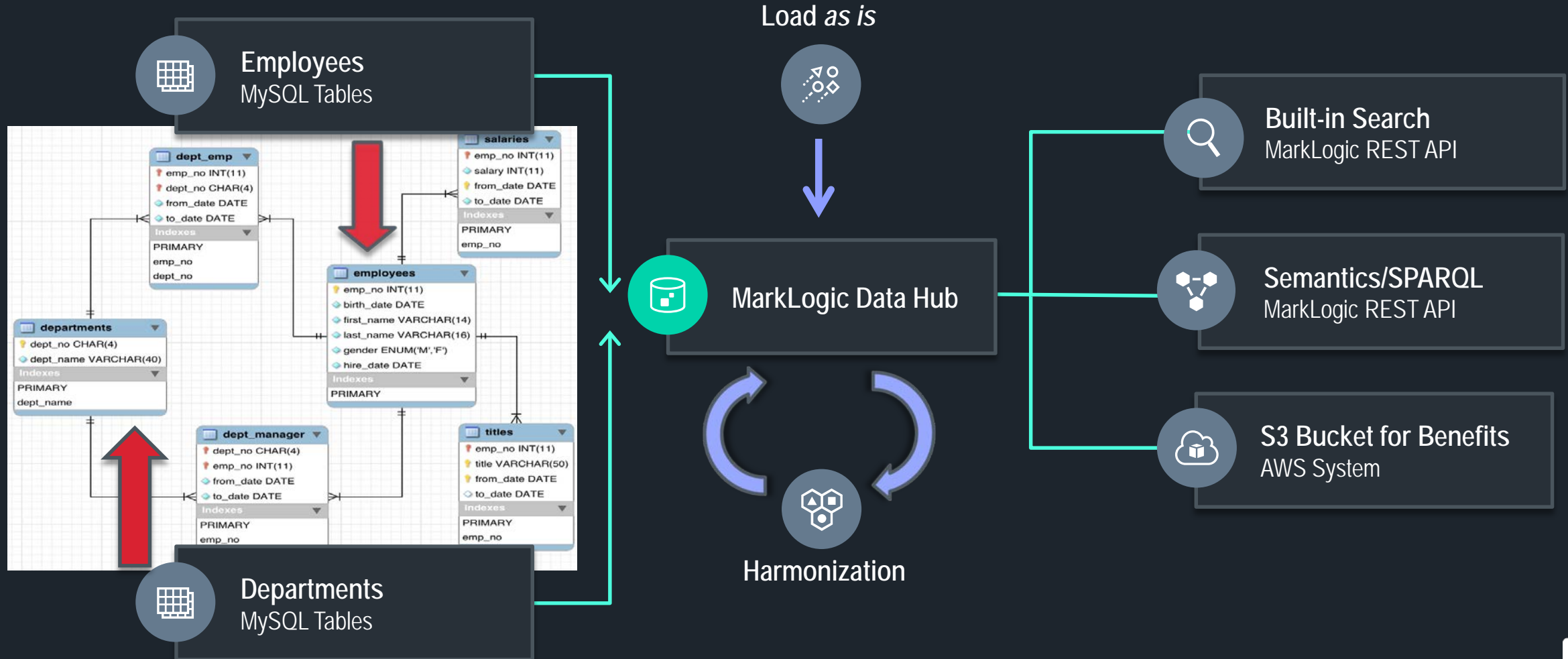


Our demo requirements

- Need to ingest *Employee* and *Departmental* history data from legacy RDBMS systems
- Provide a single view of departmental history for any given employee
- Allow for searchable access to the data
- Allow for export of the data to Amazon S3, needed for downstream data extract requirements by our Benefits team
- Provide support for graph-based views and querying of our departmental history data
- Demonstrate the origins and lineage of the data after ingest
- Our IT department triggers all data movement at every layer with MuleSoft and REST services



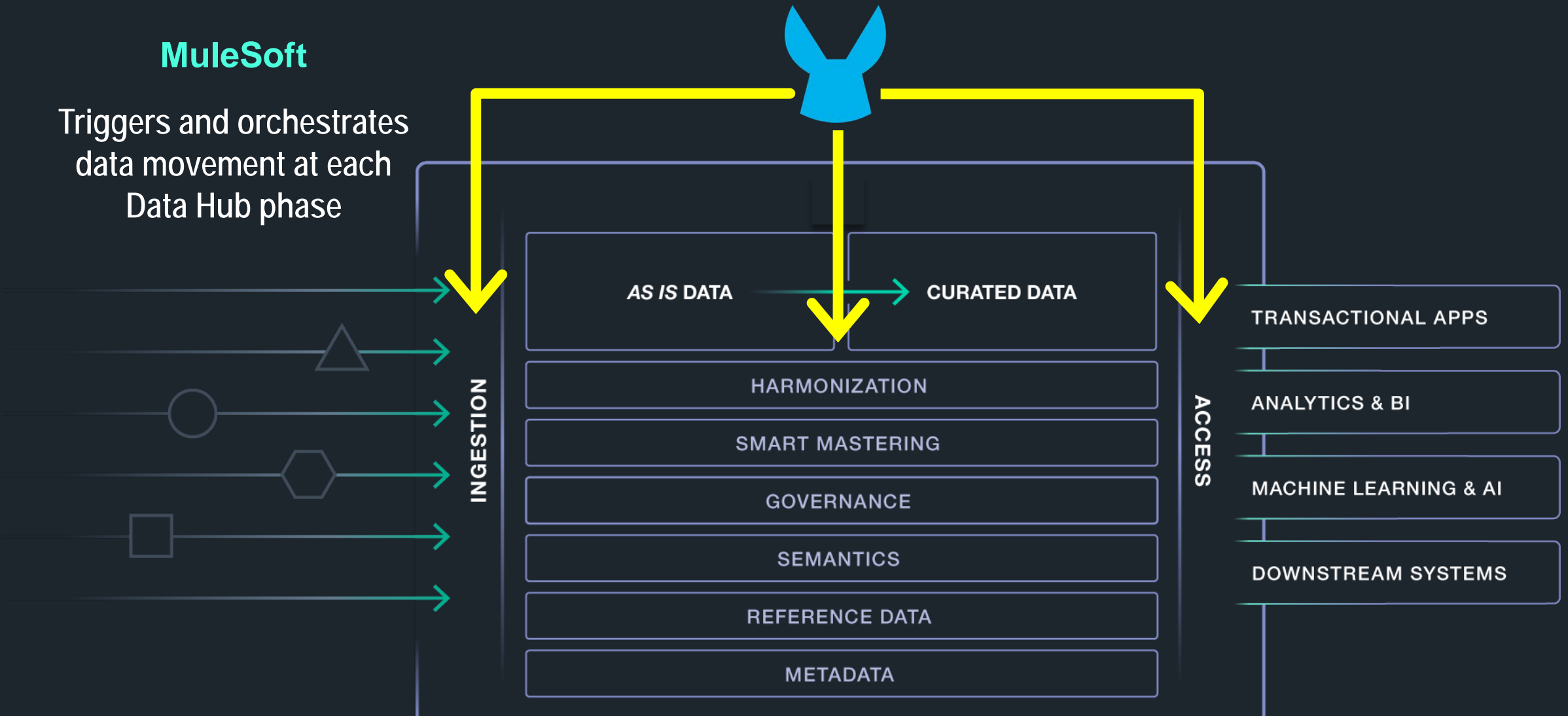
Demo architecture



MarkLogic Data Hub Platform

MuleSoft

Triggers and orchestrates
data movement at each
Data Hub phase



Takeaways

- MarkLogic has a Mulesoft certified connector, available in the MuleSoft exchange
- MarkLogic customers can leverage the vast collection of MuleSoft connectors to extract data from data sources and business applications
- This results in faster ingestion of data sources
- MarkLogic will also leverage API management capabilities of MuleSoft, giving customers the ability to use MuleSoft to build MarkLogic applications
- We're making simplified data integration even simpler and faster





Questions?