Mar 06, 2020

### Intelligent Data Catalog for IICS, EDP and Axon

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Principal Technologist – Customer Success



### Housekeeping Tips









- Today's Webinar is scheduled for 1 hour
- > The session will include a webcast and then your questions will be answered live at the end of the presentation
- ➤ All dial-in participants will be muted to enable the speakers to present without interruption
- > Questions can be submitted to "All Panelists" via the Q&A option and we will respond at the end of the presentation
- The webinar is being recorded and will be available to view on our INFASupport YouTube channel and Success Portal.
  The link will be emailed as well.
- Please take time to complete the post-webinar survey and provide your feedback and suggestions for upcoming topics.



## Success Portal <a href="https://success.informatica.com">https://success.informatica.com</a> Learn. Adopt. Succeed.



Bootstrap product trial experience



Enriched Onboarding experience



FREE Product Learning Paths and weekly Expert sessions



Informatica Concierge with Chatbot integrations



Tailored training and content recommendations



### Agenda

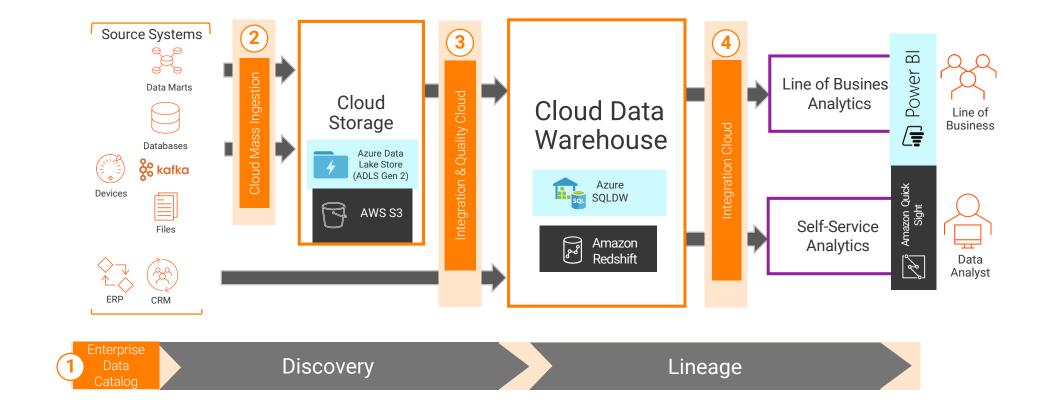
- Cloud Data Integration UseCases
- Enterprise Data Preparation Integration UseCases
- Data Governance Integration UseCases
- Demo
- Q&A





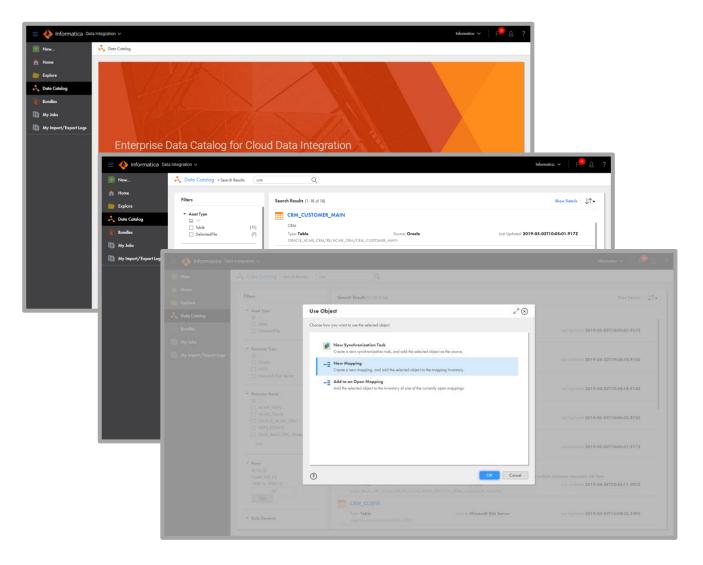
## Data Catalog for Cloud Journey

### Cloud Data Warehouse



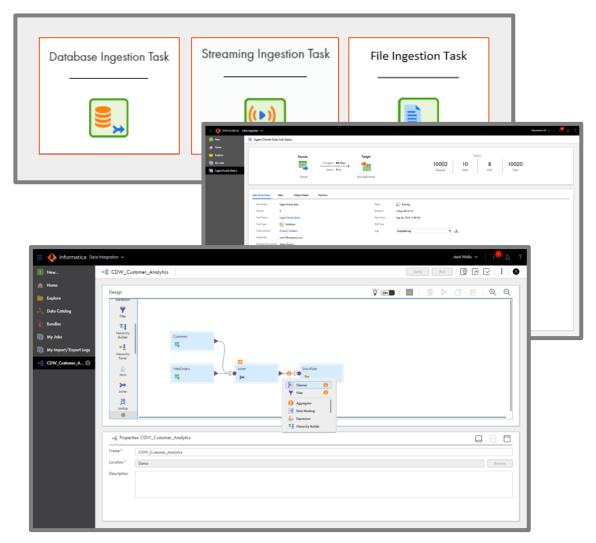


### 1. Find data to ingest



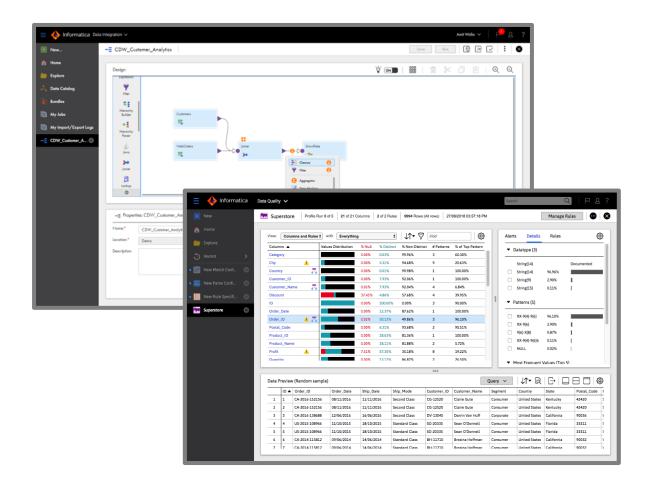
- Enterprise Data Catalog industry's #1 data catalog to find all your enterprise data, detailed data lineage, certified data, social collaboration
- Automate data provisioning from the data catalog

### 2. Ingest data to landing zone



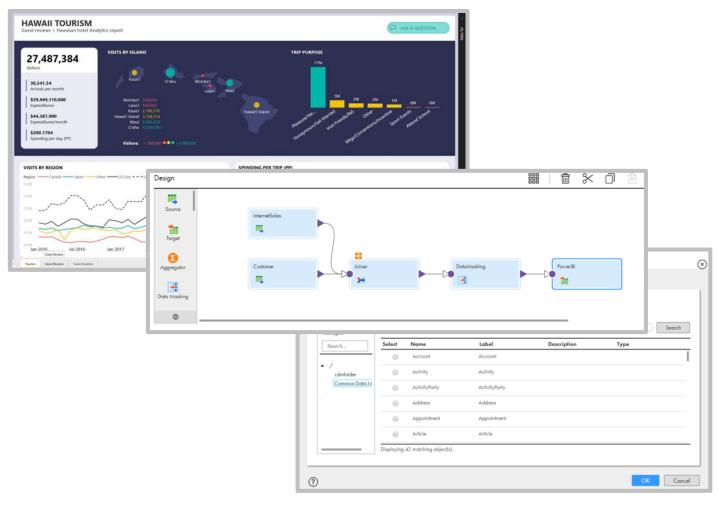
- Cloud Mass Ingestion one tool to quickly do all types of ingestion at scale
- Cloud Data Integration connect to all types of data, easy to use ETL, integrated to the catalog for a shopping cart experience
  - Files
  - Databases
  - CDC / Schema drift
  - Real-time streaming
  - API

### 3. Integrate and cleanse data into cloud data warehouse



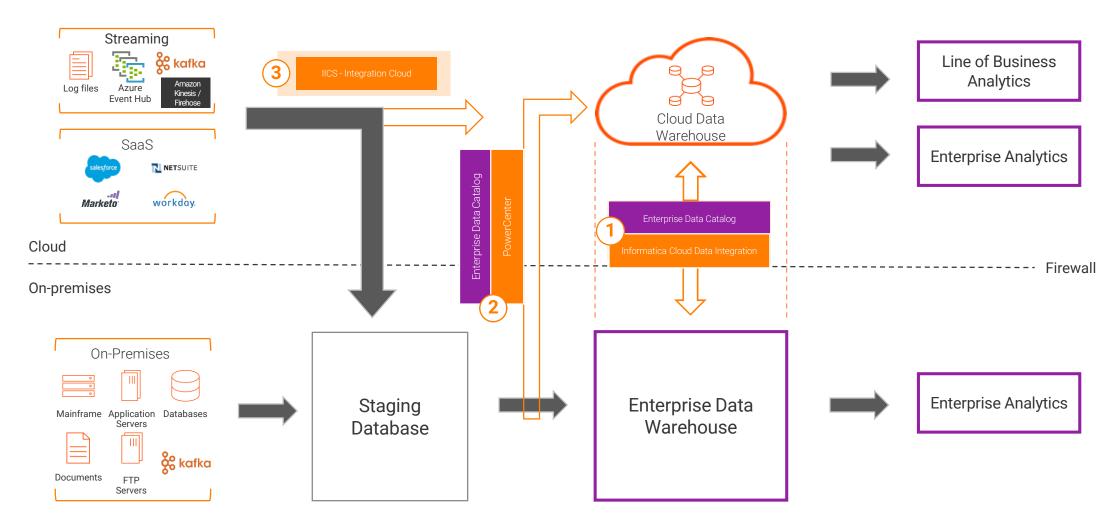
- Cloud Data Integration (CDI) simply and easy-to-use ETL for any source, pushdown optimization to leverage target engine
- Cloud Data Integration Elastic (CDIe)
   high performance cloud-native large volume processing
- Cloud Data Quality the industry's only cloud-native data profiling and cleansing tool

### 4. Self Service BI with embedded Cloud DI and Cataloging



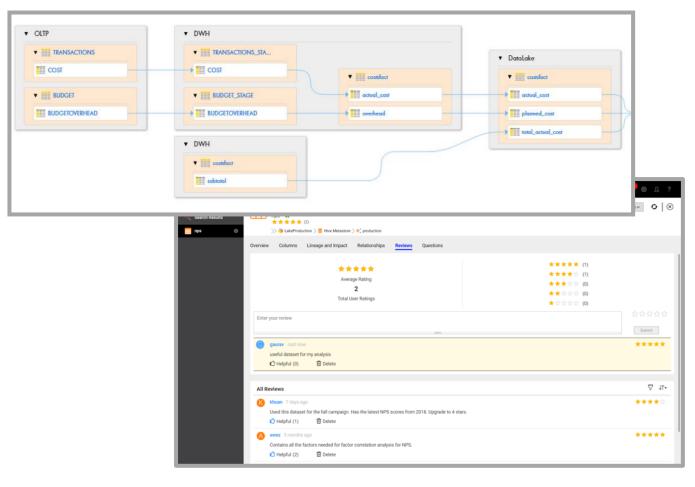
- Embedded BI tool capabilities (i.e. Tableau, PowerBI):
  - Cloud Data Integration automated data provisioning
  - Enterprise Data Catalog catalog at your fingertips and detailed lineage to show where data came from

### Cloud Data Warehouse Migration



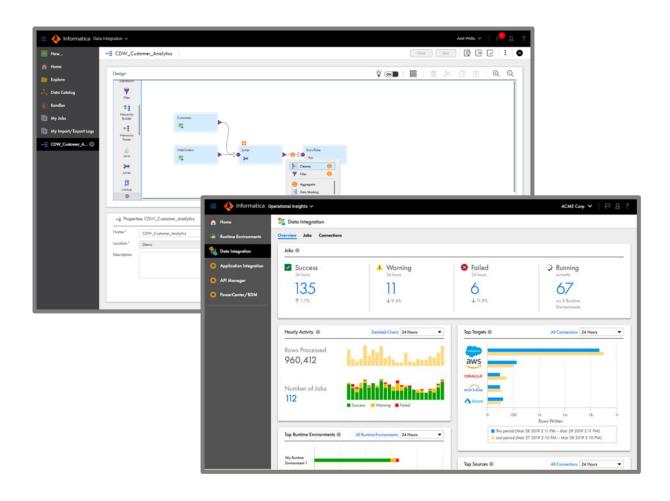


### 1. Discover and prioritize data that needs to migrate



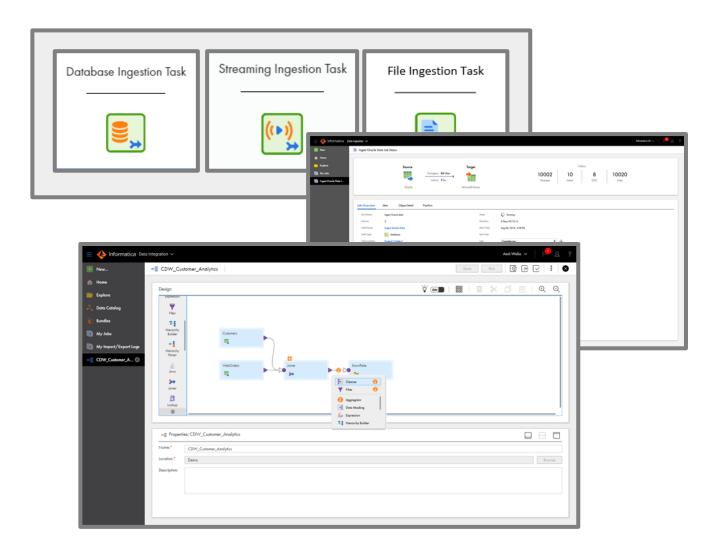
- Enterprise Data Catalog industry's #1 data catalog that provides detailed lineage to determine what data and data pipelines needs to be migrated
- Automate data provisioning from the catalog across the source system landscape
- View relevance and quality of data before migrating

### 2. Migrate data from on-prem DW to Cloud DW



- Cloud Data Integration connect to all types of data, easy to use ETL, integrated to the catalog for a shopping cart experience
  - Key connectors
    - AWS Redshift
    - Azure SQL DW
    - Snowflake
    - Google Big Query
- Operational Insights

### 3. Ingest data from new sources

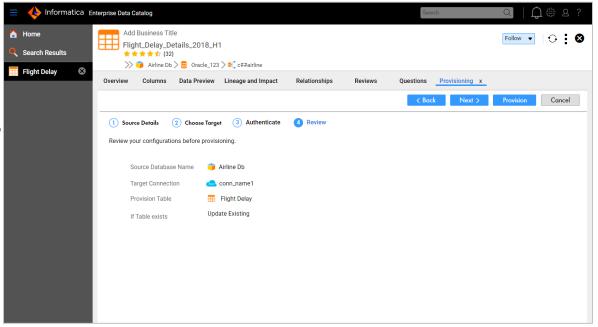


- Cloud Mass Ingestion one tool to quickly do all types of ingestion at scale
- Cloud Data Integration connect to all types of data, easy to use ETL, integrated to the catalog for a shopping cart experience

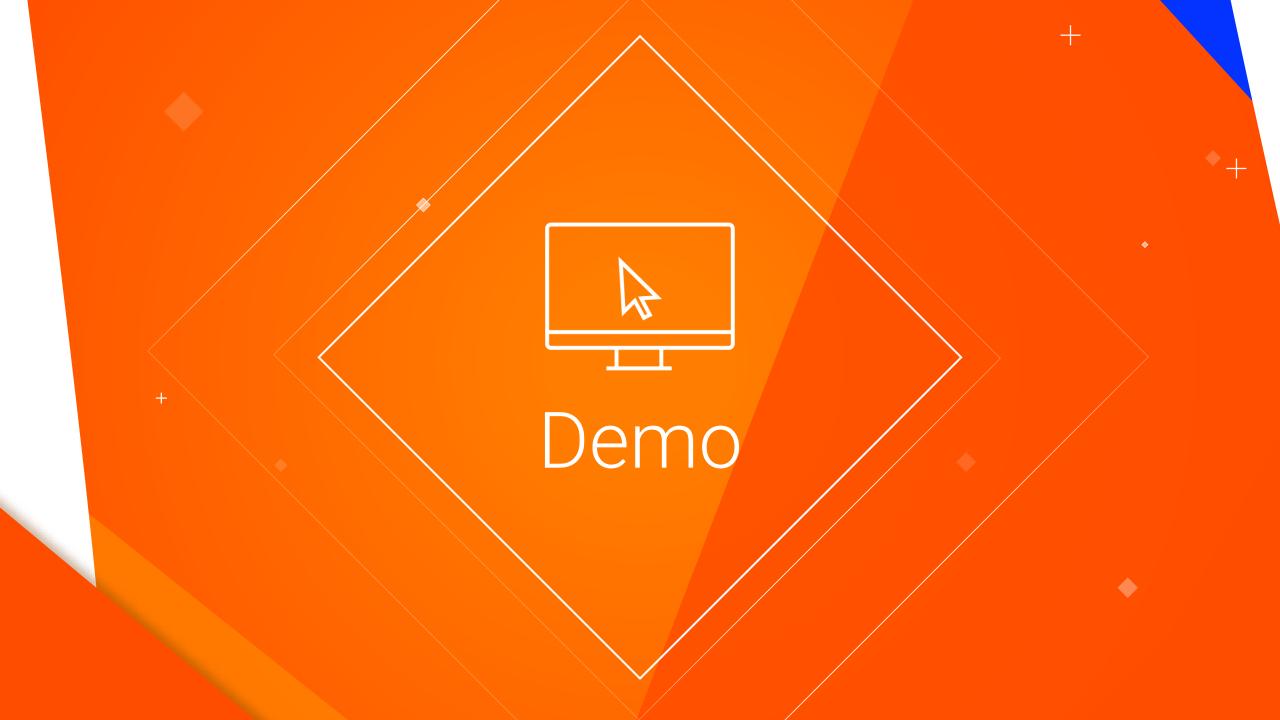
### Self-Service Data Provisioning

- Empower analysts to access the data they need
- Simple, click-through data provisioning to easily deliver your data to desired target
- Broad choice of sources & targets, including AWS Redshift, Azure SQL DW, Google BigQuery, Snowflake and BI tools like Tableau











## Data Catalog for Data Preparation

### Typical Data Preparation Challenges



#### **Business/Data Analysts**

- Difficulty finding trusted data
- Limited access to the data
- Frustrated by slow response from IT
- Constrained by disparate tools, manual steps
- No way to collaborate, share, and update curated datasets, reuse knowledge

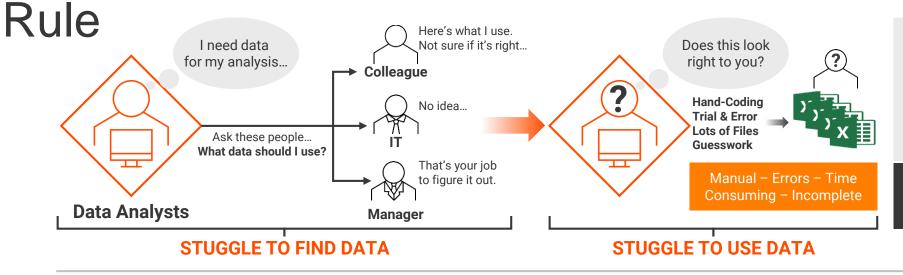


#### **IT/Data Engineers**

- Can't cope with growing demand for data from the business
- No visibility into what the business is doing with the data
- Struggling to deliver value to the business
- Losing the ability to govern and manage data as an asset



Enterprise Data Preparation (EDP) Flips the 80/20



**80%** of time spent on data prep

20% on analytics

**Months / Weeks** 

VS

EDC
Find the Right Data

Prep the Data Easily

Data Analysts

END-TO-END SELF-SERVICE FASTER TIME TO VALUE

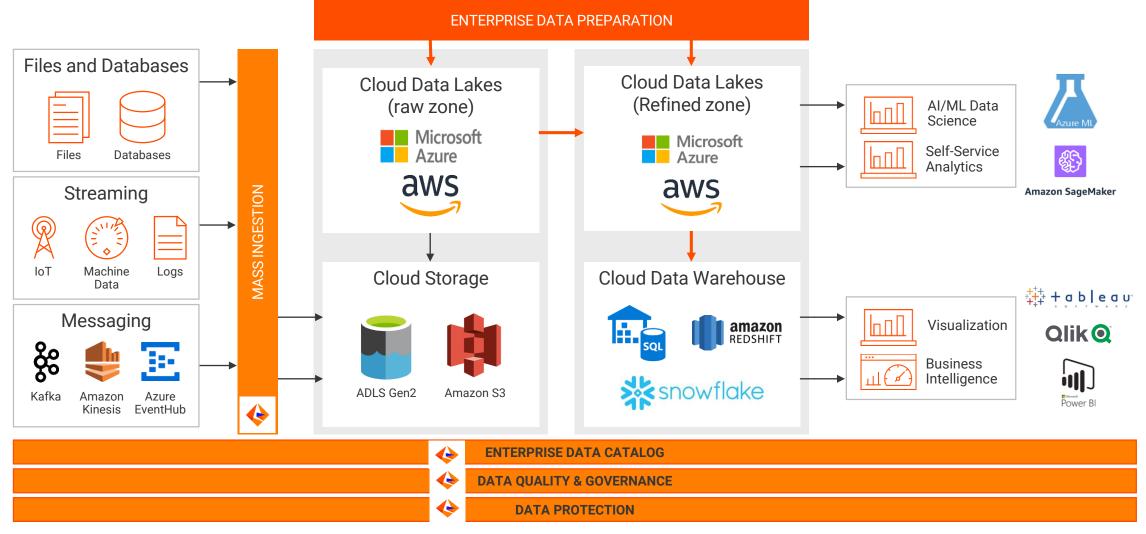
**Hours / Minutes** 

**20**% of time spent on data prep

80% on analytics



### Enterprise Data Preparation Reference Architecture





### Enterprise Data Preparation Primary Use cases



### Data Preparation for Self-service Analytics on Data Lakes

Find, explore and prepare data quickly in the data lake to support ad-hoc analytics followed by operationalization in a governed environment



### Data Preparation for Advanced Analytics (AI/ML Projects)

Find, explore and prepare data that quickly so that it is ready for Data Science projects followed by operationalization of Data Science process



### Enterprise Data Preparation Empowers DataOps Teams

Democratize data pipelines for analytics and AI/ML workloads at scale

### **Data Engineer**

How can I quickly prepare data for advanced analytics and operationalize data pipelines for reliable data delivery?



### Data Preparation Process Agile, Iterative, Collaborative

#### **Data Scientist**

How can I extract completely new patterns and models that detect or predict behavior?



#### **Data Analyst**

How can I quickly and easily find, explore and prepare data for my analysis and create a repeatable process without depending on IT?

#### **Data Steward**

How can I enable selfservice and ensure right data is available to right people in trusted and secure manner?

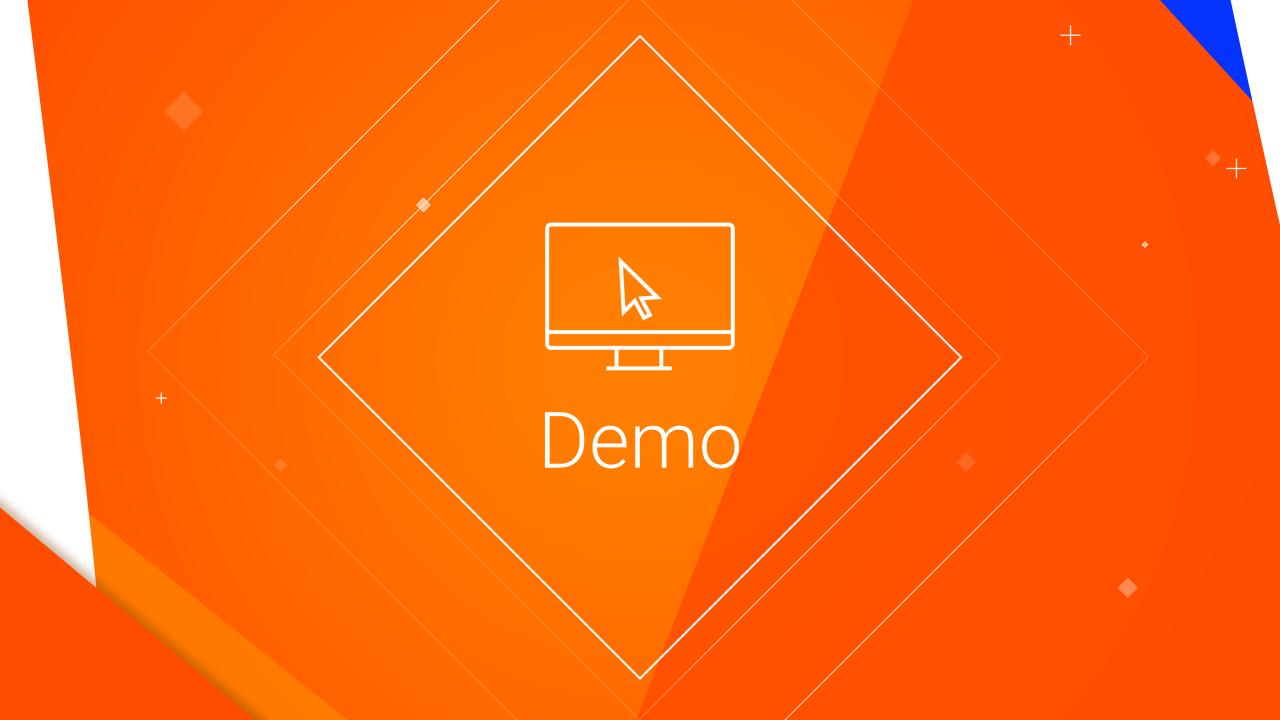


### Data Preparation on Modern Data Lakes with EDP 10.4

Enable citizen integrators to be self-served on ADLS/S3 data lakes

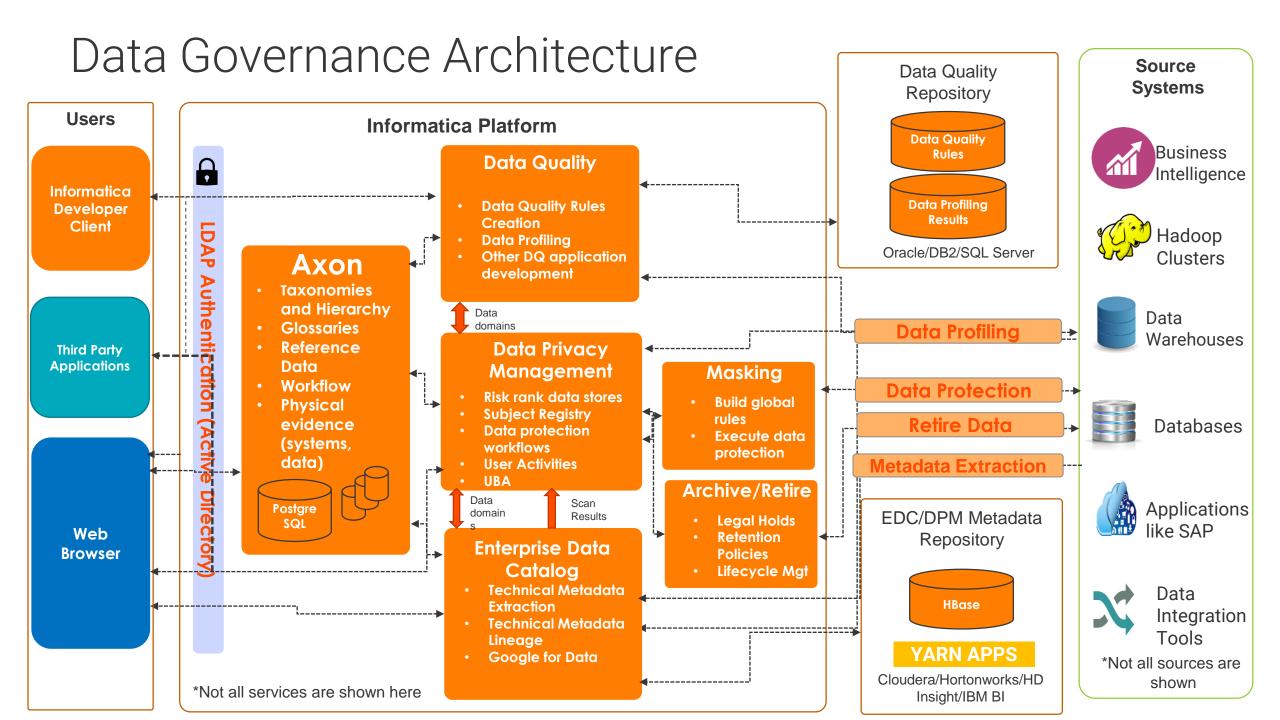
Self-Serve Data Prep Informatica Enterprise Data Preparation Data formats Datawarehouse Database **Files** Compute aws Data Lake Storage **Azure** Data lake **AZURE** AWS **On-Premises** 







## Data Catalog for Data Governance Journey

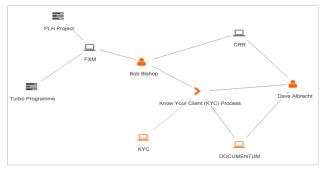


### Solution Approach for Actionable Understanding

### Glossary



#### Relate



#### Control





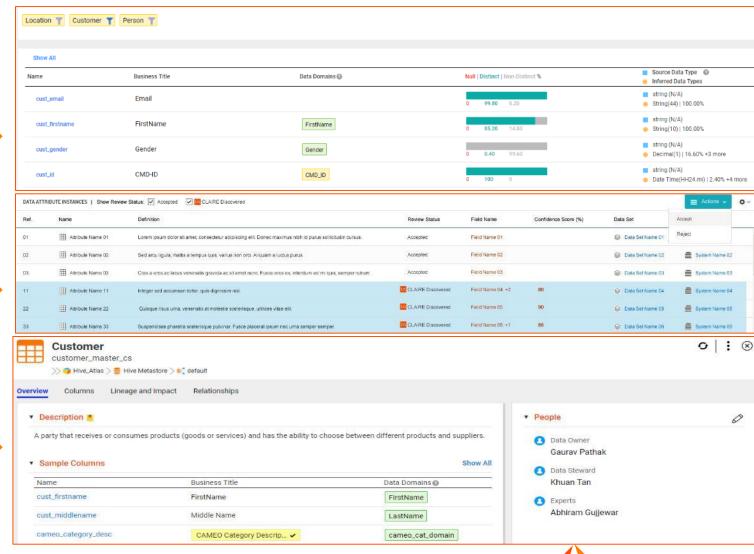


### Automate Data Discovery, Cataloging, and Context

Leverage ML and AI to find critical data across structured and unstructured sources

Onboard discovered data automatically with oversight and control

Automatically tag data with business context to help users assess relevance





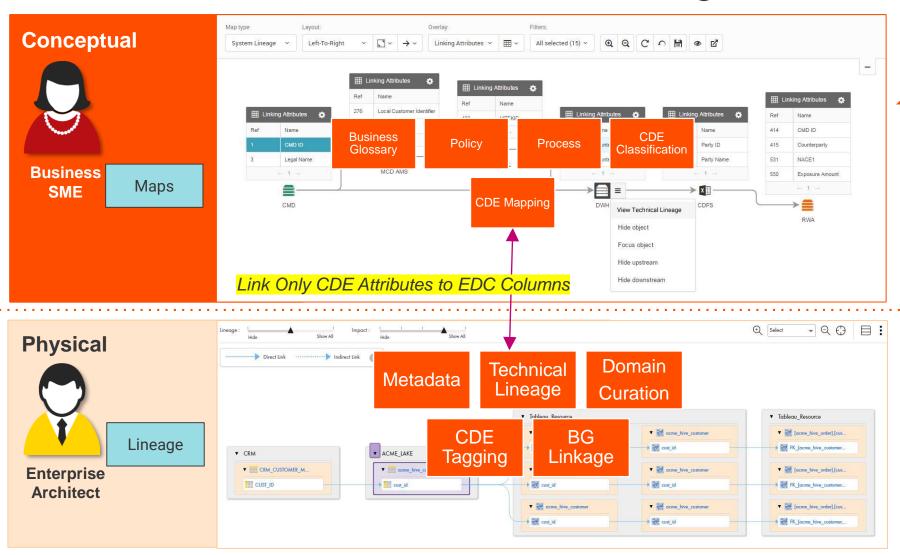
# Validate/Recommend

### AXON - EDC - Business & Technical Lineage

Informatica Axon

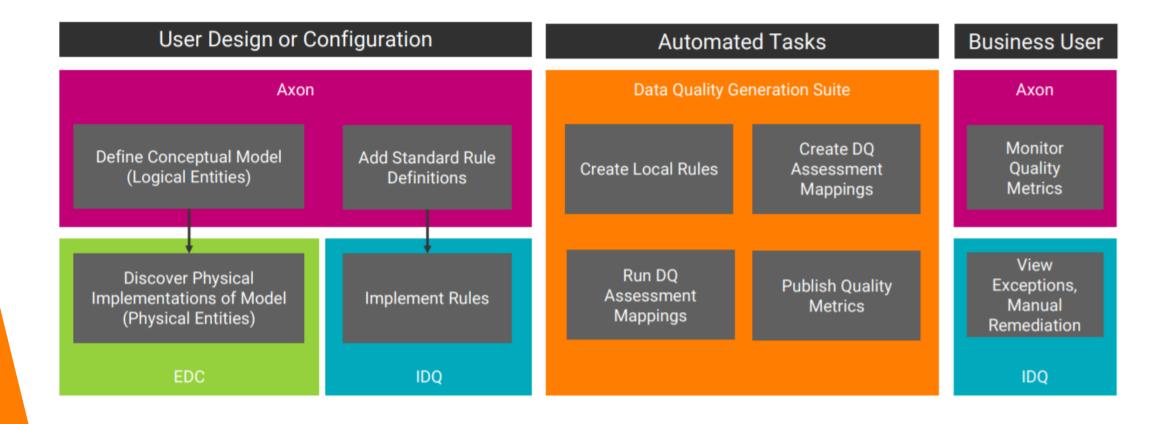
Document/Enforc

Enterprise Data Catalog





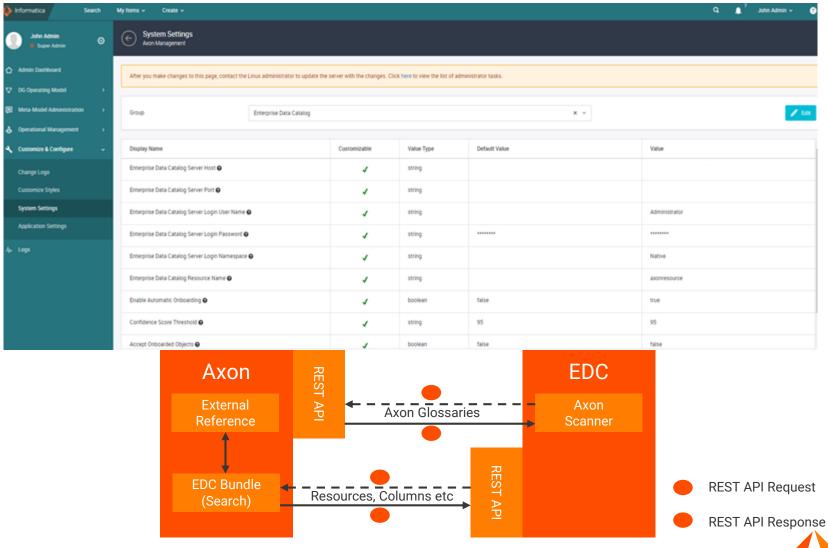
### Automating Data Quality for Data Governance

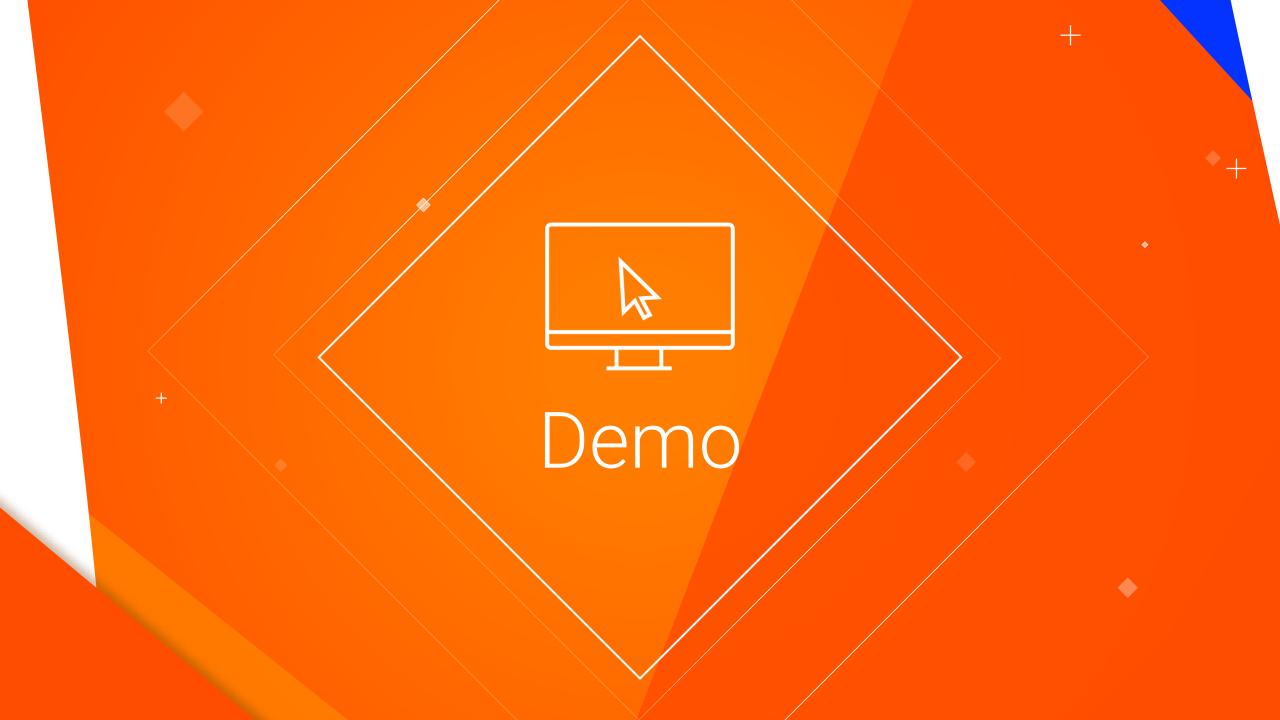




### Axon integration with EDC

Configuration









### References

- IICS EDC Integration Properties: <a href="https://docs.informatica.com/integration-cloud/cloud-platform/current-version/administrator/organizations/organization-properties/enterprise-data-catalog-integration-properties.html">https://docs.informatica.com/integration-cloud/cloud-platform/current-version/administrator/organizations/organization-properties/enterprise-data-catalog-integration-properties.html</a>
- EDC Managing Cloud Org: <a href="https://docs.informatica.com/data-catalog/enterprise-data-catalog/10-4-0/catalog-administrator-guide/managing-cloud-organization.html">https://docs.informatica.com/data-catalog/enterprise-data-catalog/10-4-0/catalog-administrator-guide/managing-cloud-organization.html</a>
- EDC Data Preview & Provisioning: <a href="https://docs.informatica.com/data-catalog/enterprise-data-catalog/10-4-0/enterprise-data-catalog-user-guide/data-preview-and-provisioning.html">https://docs.informatica.com/data-catalog/enterprise-data-catalog/10-4-0/enterprise-data-catalog-user-guide/data-preview-and-provisioning.html</a>
- Using Axon with Enterprise Data Catalog <u>https://kb.informatica.com/h2l/HowTo%20Library/1/1150-UsingAxonDataGovernancewithEnterpriseDataCatalog-H2L.pdf</u>
- Axon Checklist to Automate Data Quality Rules
   <a href="https://docs.informatica.com/data-quality-and-governance/axon-data-governance/h2l/checklist-to-automate-data-quality-rules-in-axon-data-governance/abstract.html">https://docs.informatica.com/data-quality-and-governance/axon-data-governance/h2l/checklist-to-automate-data-quality-rules-in-axon-data-governance/abstract.html</a>
- 7 Best Practices to Drive Data Catalog Adoption https://www.informatica.com/lp/7-best-practices-to-drive-data-catalog-adoption 3712.html#fbid=PYYnGF22B9T
- Managing the Data Lake using EDP: <a href="https://docs.informatica.com/data-catalog/enterprise-data-preparation/10-4-0/enterprise-data-preparation-administrator-guide/managing-the-data-lake/data-lake-management-overview.html">https://docs.informatica.com/data-catalog/enterprise-data-preparation/10-4-0/enterprise-data-preparation-administrator-guide/managing-the-data-lake/data-lake-management-overview.html</a>
- New Features in EDP v10.4: <a href="https://docs.informatica.com/data-catalog/enterprise-data-preparation/10-4-0/new-features-guide/new-features--10-4-0-/enterprise-data-preparation.html">https://docs.informatica.com/data-catalog/enterprise-data-preparation/10-4-0/new-features-guide/new-features--10-4-0-/enterprise-data-preparation.html</a>

