

MANTA

Unified Data Lineage

Overview



Contents

MANTA Overview

MANTA and Colibra: Integration Visual

Additional Material: Use Cases



Data Lineage Initiatives



Trace PII + Sensitive Data Flows –
Tighten sensitive data protection



Automation + Documentation –
Potentially hiring 35 FTE's to perform manually

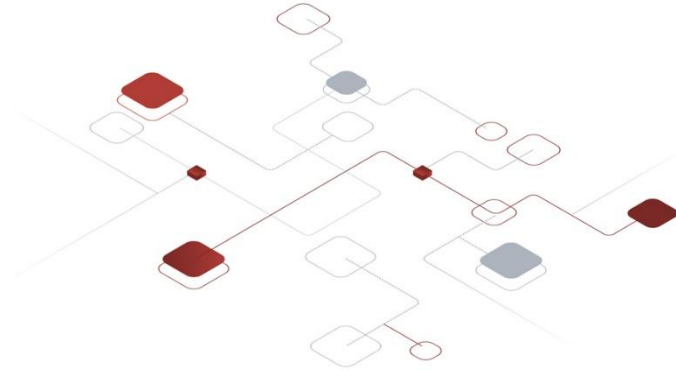


Enhance Governance –
Ensure accurate regulatory reporting and provide a data-centric foundation for 2022 catalog project

Our Mission

Bring intelligence to metadata management by providing an automated solution that helps you drive productivity, gain trust in your data, and accelerate digital transformation

What We Do



We help organizations like yours achieve **regulatory compliance**, enhance **data governance**, speed up **migration projects**, and **shorten delivery schedules**

Using MANTA, enterprises manage **end-to-end lineage** across their data lifecycle



Why We Do It: Key Drivers

Productivity

- Understand where your data originated, how it's changed, and where it's going – so that you can use it to your advantage
- Remove roadblocks, save time, increase efficiency and shift your focus to what matters

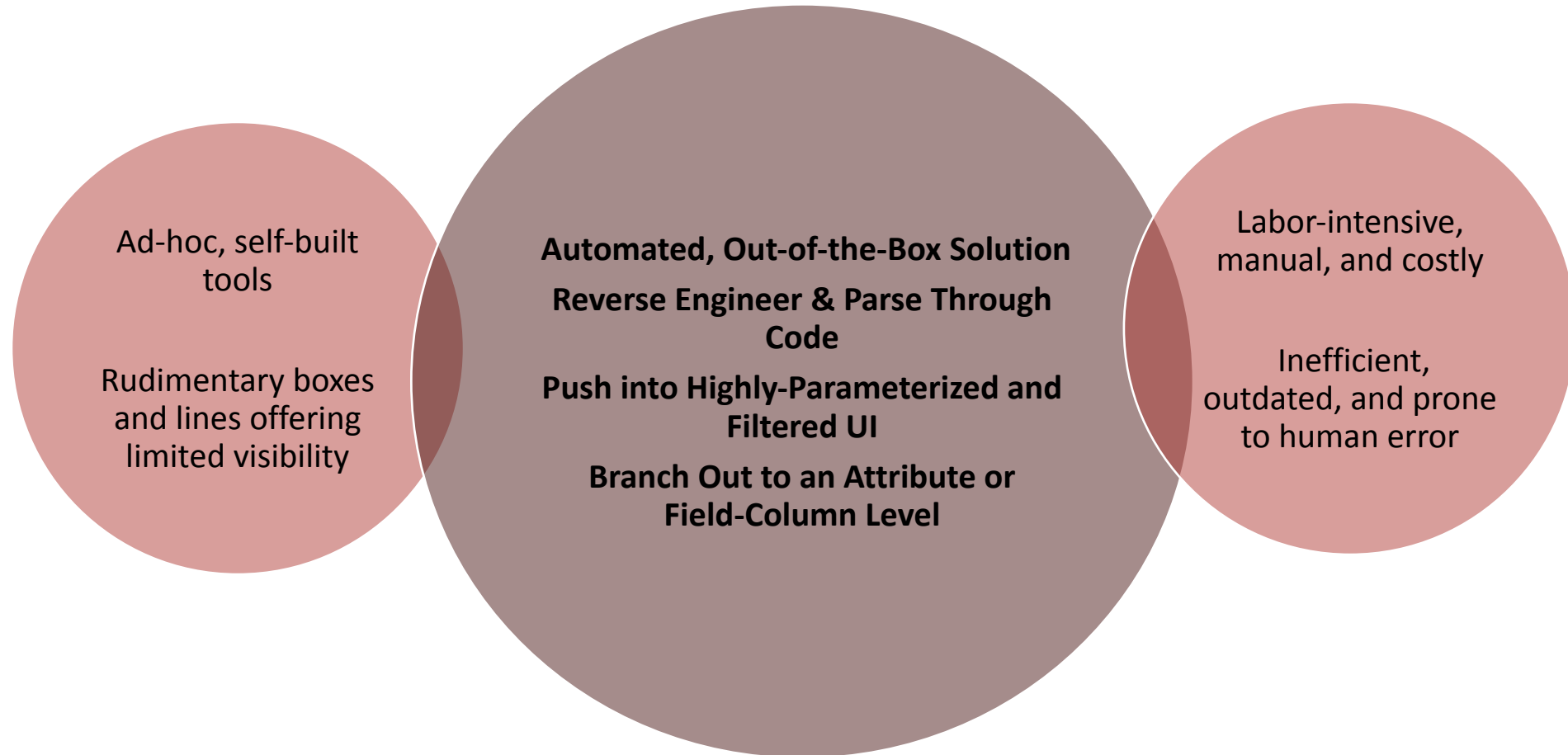
Trust

- Gain confidence in the accuracy and trajectory of your data
- Make intelligent, informed decisions that drive and sustain positive business outcomes

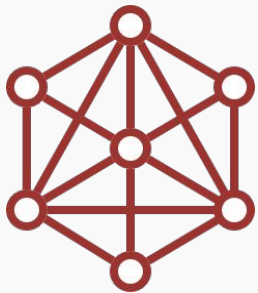
Digital Transformation

- Empower data professionals to adapt to changing needs, quickly and at scale
- Enable businesses to effectively address challenges and seize new opportunities

The MANTA Difference



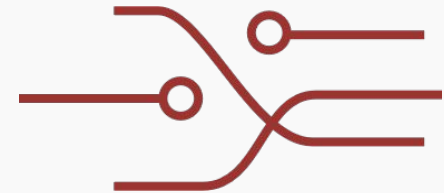
How MANTA's Unified Data Lineage Solution Works



Step 1:
Connection and
Scanning



Step 2:
Lineage Extraction with
Added Semantics



Step 3:
Fully Accurate
Lineage Delivery

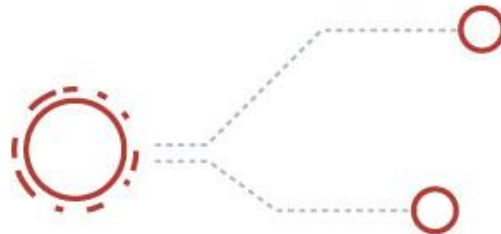
How MANTA Works: A Closer Look

①



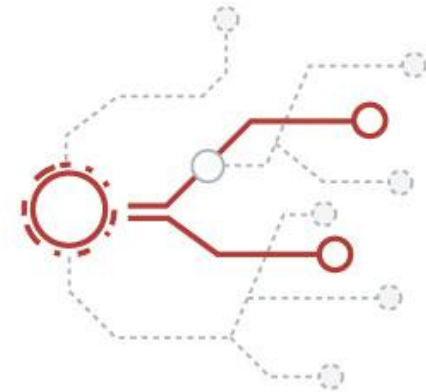
Manta Flow crunches custom SQL, ETL & BI code

②



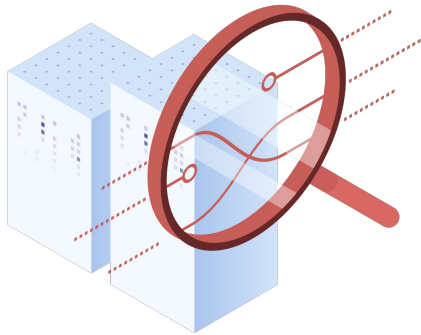
Documents lineage along the way

③

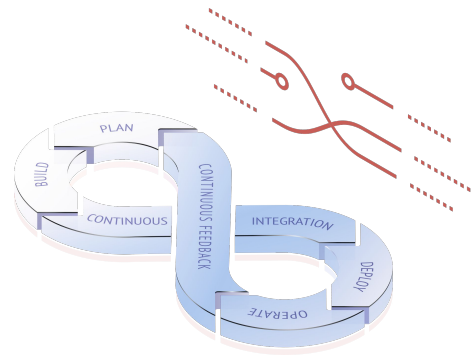


Visualizes data lineage via interactive map or optionally pushes it into third-party governance solution

Where You Can Apply MANTA



Data Governance



DataOps



(Cloud) Migrations

MANTA

Advantages



Quickly deliver impactful results with automated lineage



Seamlessly integrate lineage into existing processes and practices



Avoid visualization overload with lineage that is easy to comprehend

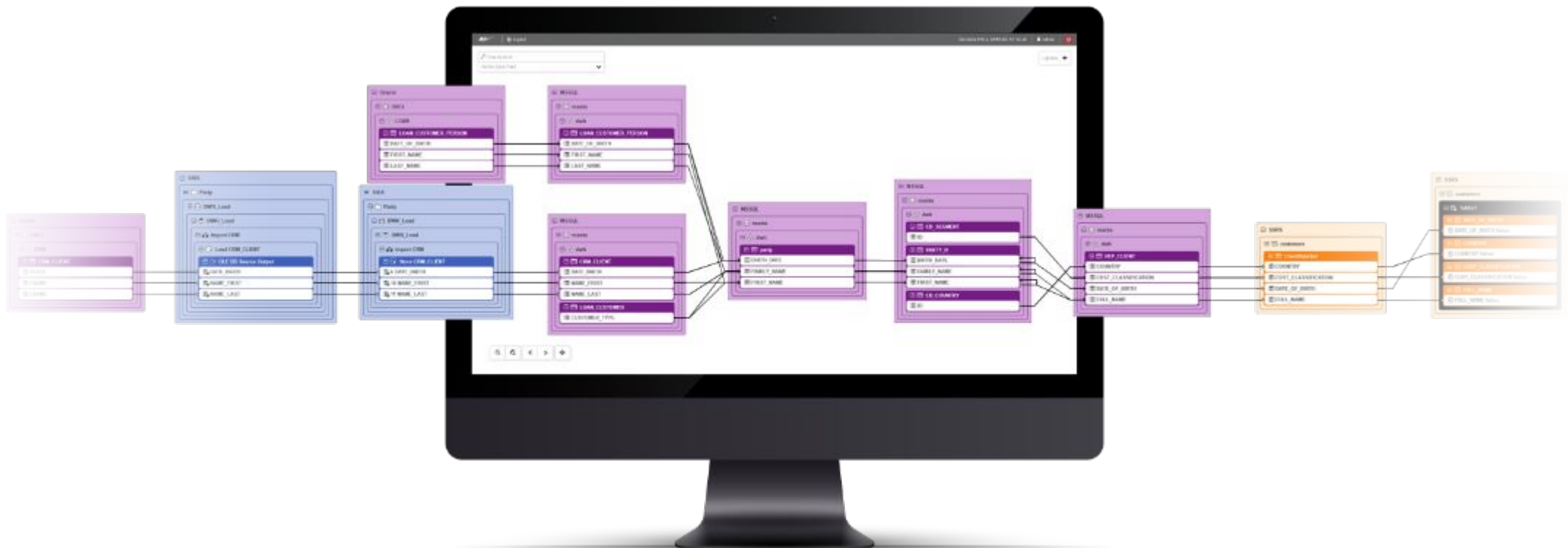


Prevent lineage “mysteries”



Increase accuracy for data flow audits and historical lineage requests

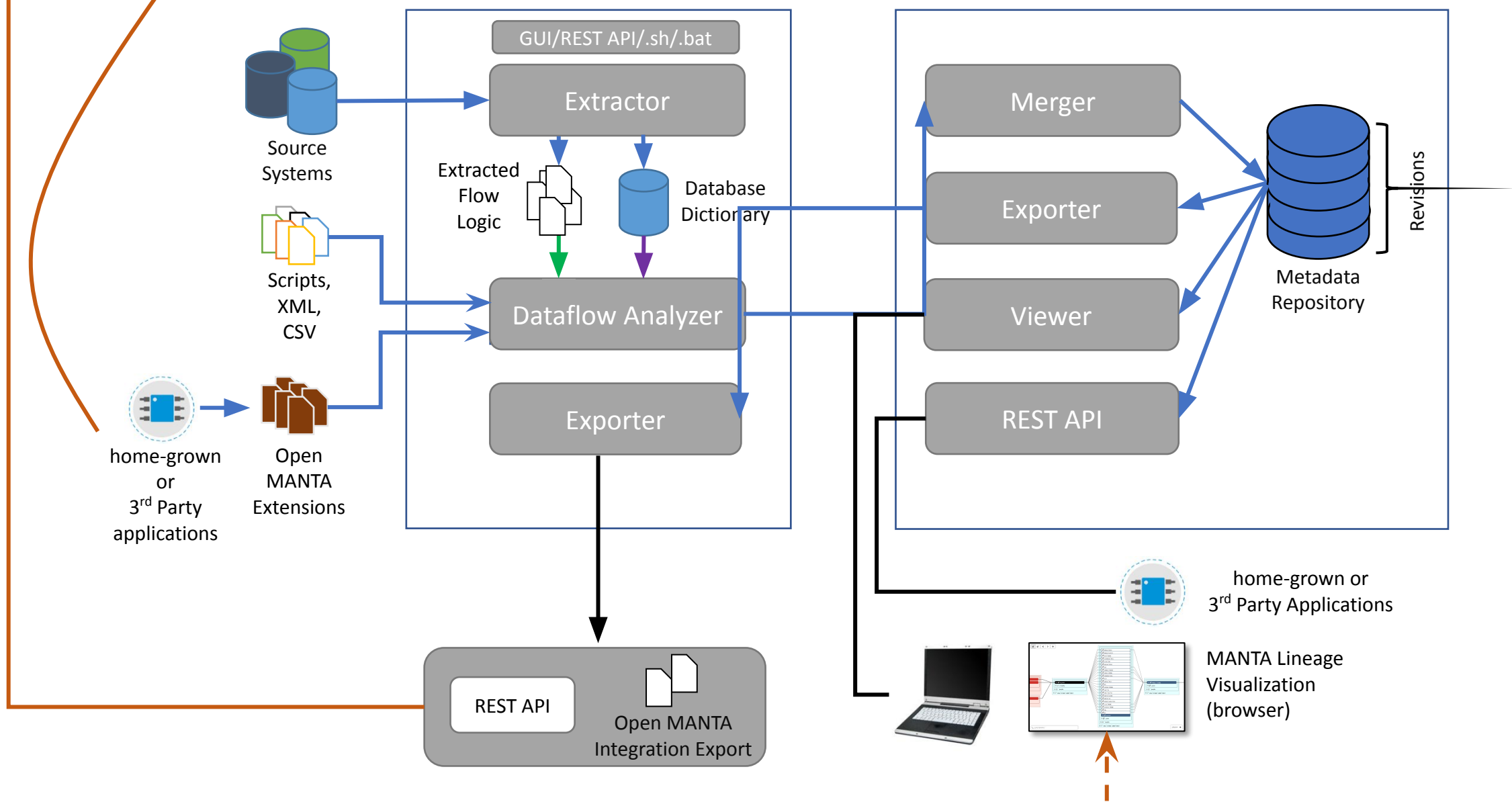
Demonstration



*Independent Solutions; Catalog
Integrations...*

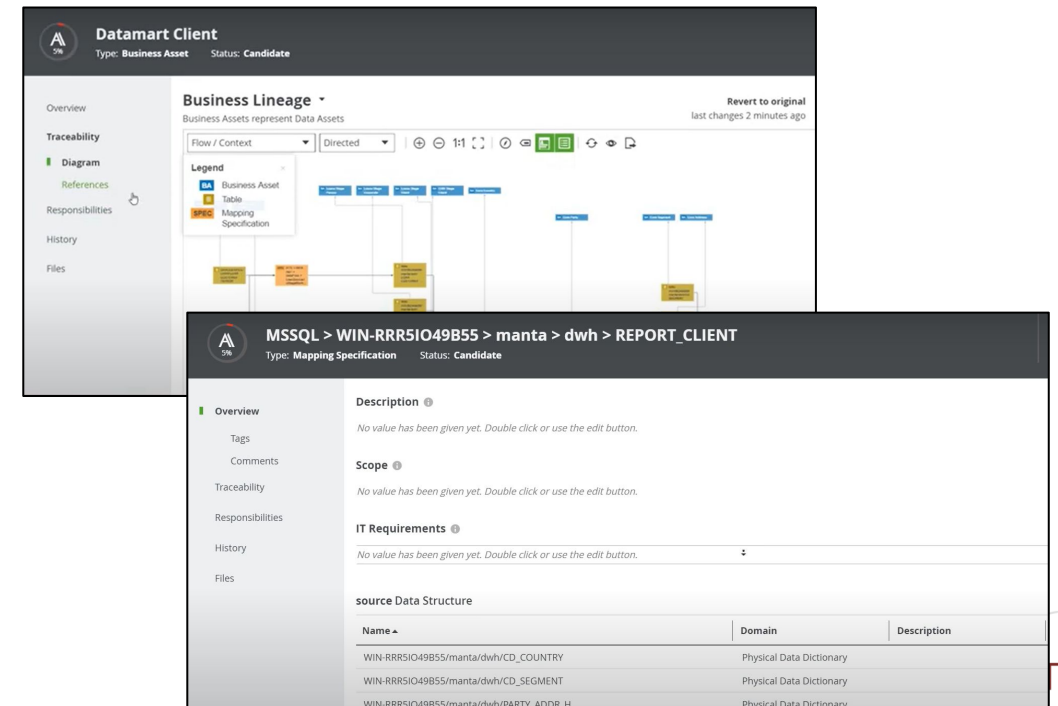
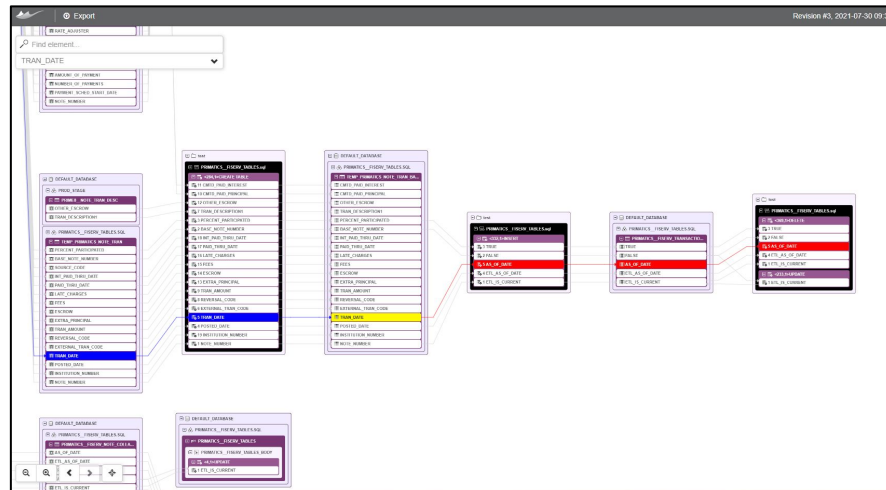
Manta Flow Client

Manta Flow Server



Data Governance – Single Source Of Truth

Manta's lineage automatically updates Collibra to connect the dataflow with business rules, definitions, and Collibra catalog features.



The screenshot shows the Collibra Datamart Client interface. The top section displays the 'Business Lineage' view, showing a flow of data assets. The bottom section shows the 'Mapping Specification' view, which includes a table of source data structure.

Business Lineage

Business Assets represent Data Assets

Flow / Context: Directed

Legend:

- BA Business Asset
- T Table
- SPC Mapping Specification

MSSQL > WIN-RRRSIO49B55 > manta > dwh > REPORT_CLIENT

Type: Mapping Specification Status: Candidate

Overview

- Tags
- Comments
- Traceability
- Responsibilities
- History
- Files

Description

No value has been given yet. Double click or use the edit button.

Scope

No value has been given yet. Double click or use the edit button.

IT Requirements

No value has been given yet. Double click or use the edit button.

source Data Structure

Name	Domain	Description
WIN-RRRSIO49B55/manta/dwh/CD_COUNTRY	Physical Data Dictionary	
WIN-RRRSIO49B55/manta/dwh/CD_SEGMENT	Physical Data Dictionary	
WIN-RRRSIO49B55/manta/dwh/PARTY_ADDR_H	Physical Data Dictionary	

Thank you!

Additional Material

Data Governance with MANTA



Meet regulatory commitments faster and with less manual effort



Increase trust in data and the overall data pipeline



Direct integration with the most popular governance solutions



More accurately define the scope of your governance initiatives

1. Customer Story: **Data Governance**

A global, Fortune50 financial services corporation headquartered in New York.

Problem

- Need for comprehensive BASEL II/III solution
- Monthly manual reports in Excel with over 250 KPIs initially, growing to 500+
- Unsuccessful attempts to use several data catalog / data governance tools

Result

- Lineage discovery fully automated for data environment in Finance & Risk
- Customer was able to extend regulatory reporting to hundreds of KPIs with ease
- MANTA was project of a year and integrated into broader DG context

Today

- MANTA chosen to be the enterprise data lineage solution
- Variety of use cases for compliance (GDPR, CCPA,..), impact analysis, DataOps,...
- Changing culture of data operations from manual to automated/augmented

DataOps with MANTA

✓ Fully mapped data pipeline accelerates debugging

✓ Complex APIs for launching lineage “on demand” for selected assets

✓ Complete lineage reporting improves communication between teams

✓ Instant lineage validation to support agile analytics development

✓ Proactively deliver lineage reports as part of your DataOps best practices

2. Customer Story: DataOps

A global banking and financial services company, among TOP5 banks in EMEA and TOP50 globally.

Problem

- Large data environment (primarily in Teradata) with over 1,000,000 algorithms in it
- Increasing demand for more frequent changes and releases
- High-cost and fragile maintenance, difficult and time-consuming debugging process

Result

- Data pipeline fully mapped and understood via lineage to speed up debugging
- Automated impact analysis implemented to increase agility and shorten cycle
- Lineage integrated into release management to enable Continuous Deployment

Today

- MANTA expanding from traditional data environment to BigData “playground”
- Use cases added to support privacy, compliance and governance
- Experimenting with more advanced DevOps practices – automated sandboxing

Migration with MANTA



Scope migration projects faster and with more accuracy



Unify, re-use, and highlight critical transformations



Perform continuous lineage validation to measure progress



Uncover unused assets and flag dead-ends



Identify redundant data flows as candidates for re-use or removal



Expose previously unknown sources and targets as potential privacy exposures

3. Customer Story: **Migration**

An American global, Fortune100 insurer, one of TOP5 property and causality insurers in the US.

Problem

- Migration of a large Teradata environment (200,000+ objects) to Snowflake started
- Serious quality issues – missing objects, unknown / broken dependencies
- Do – Break – Debug - Redo cycle, resources wasted, moving slowly

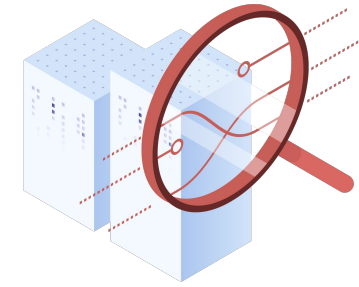
Result

- MANTA implemented and all dependencies mapped automatically
- Environment split to smaller chunks for step-by-step migration
- Predictability restored (to set expectations and prepare the plan)

Today

- Migration successfully completed
- MANTA in use for the environment in cloud to enable efficient data operations

Lineage for Data Quality



✓ Highlight data quality issues in the context of your data pipelines

✓ Historically review the impact of data quality on your data flows

✓ Examine data quality rules embedded in extract/transform/load (ETL) flows

✓ Proactively deliver lineage reports as part of your DataOps best practices

✓ More accurately define the scope of your data quality initiatives

✓ Increase trust in data and the overall data pipeline

Why MANTA



Quick time to value –
Simple installation and immediate lineage results



Automation –
Put an end to costly, lengthy, manual processes of lineage collection and updating.



Accuracy and Indirect Lineage –
Paint true picture of environment including detailed flow information



Open MANTA –
Easily define new lineage metadata assets and establish data flows without a native scanner



Historical lineage –
Track how your data pipeline is evolving overtime



Perspectives –
Site-specific hierarchies to be defined for organizing lineage metadata



Support Team –
Agile organization focused on customer support and development



Open Architecture w REST API –
Seamless integration with your environment



Advanced filtering –
Tune lineage visualization to your needs with our filters, deep color coding, and more