

Metadata Injection

Accelerating Complex Data Onboarding Projects

DATASHEET

Modern Data Onboarding Challenges

Today's data onboarding projects require more than just connecting to or loading data. Rather, they involve managing a changing array of data sources, establishing repeatable processes at scale, and maintaining control and governance. Whether an organization is implementing an ongoing process for ingesting hundreds of data sources into Hadoop or enabling business users to upload diverse data without IT assistance, onboarding projects tend to create major obstacles:

ETL User Challenges

- Repetitive manual design.
- Time-consuming development.
- Manual error risks.

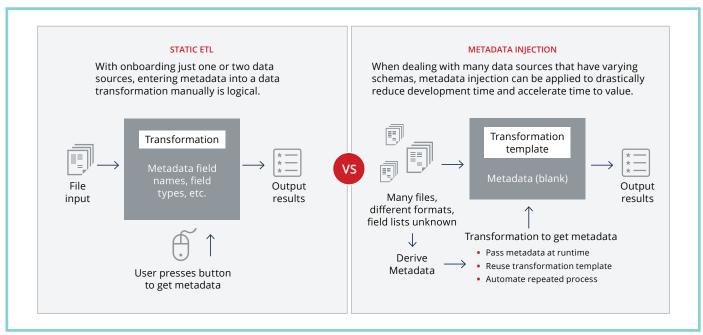
Business Challenges

- Monopolizing IT resources.
- Putting deadlines at risk.
- Opportunity costs.

The Solution Lies in the Metadata

Hitachi Vantara's unique metadata injection capability allows one transformation to become many, drastically boosting productivity and reducing development time. Pentaho Data Integration is able to access source metadata at run time, which can be injected on-the-fly into a transformation template to control complex logic.

The "instructions" derived from field names, types, lengths, and other metadata can dynamically generate the actual transformations, drastically reducing time spent designing transformations. Further, the metadata can be detected from the data source itself, from separate files, or end user input via API calls. The metadata injection process can be scaled to cover hundreds or even thousands of data sources.



USE CASE: KINGLAND SYSTEMS

Challlenge

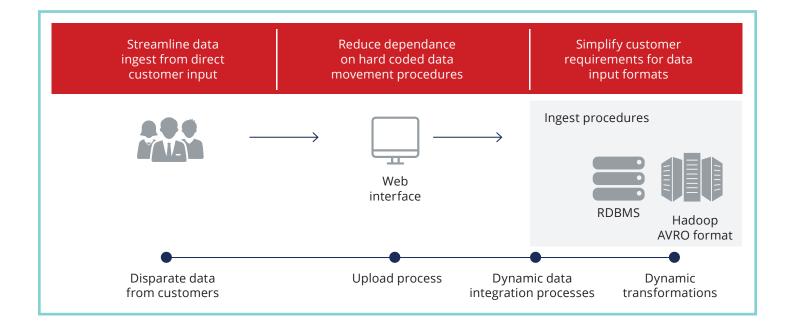
- Help Fortune 500 banks meet compliance and risk management requirements by better understanding their data.
- Alleviate manual processes required to onboard customer data into the Kingland application, which provides a single view into data quality.

Pentaho Solution

- Empower Kingland customers to onboard data in a self-service fashion.
- Helped create a "one stop shop" for bank data quality, using metadata injection to help automate the process of loading and parsing customer data.

Solution Blueprint: Self-Service Data Onboarding

In this use case design pattern leveraging Pentaho products and services expertise, metadata injection is drawn upon to drastically reduce time needed to onboard customer data into a central system, which could either be a relational environment or Hadoop.



About Hitachi Vantara

Hitachi Vantara, a wholly owned subsidiary of Hitachi, Ltd., helps data-driven leaders find and use the value in their data to innovate intelligently and reach outcomes that matter for business and society. We combine technology, intellectual property and industry knowledge to deliver data-managing solutions that help enterprises improve their customers' experiences, develop new revenue streams, and lower business costs. Only Hitachi Vantara elevates your innovation advantage by combining deep information technology (IT), operational technology (OT) and domain expertise. We work with organizations everywhere to drive data to meaningful outcomes. Visit us at Hitachi Vantara.com.

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