



New-Age Data Management Solution for Product Data Transformation

A unified, Talend-based data management solution that transformed a client's legacy ETL framework, drastically reducing the time required to process and deliver product data from months to a few days.

Overview

- **Accelerated Delivery:** Reduced the time to transform and deliver product master data from months to a matter of days.
- **Increased Efficiency:** Empowered data analysts with user-friendly tools to perform business-critical transformations, reducing dependency on specialized development teams.
- **Scalable Architecture:** The new platform was built to efficiently handle increasing volumes of product data, ensuring the client could meet evolving market demands.



Client Profile

A US-based leading provider of digital content solutions that make consumer goods more discoverable with enhanced omnichannel shopping experiences.

Challenges: Dealing with Process Inefficiencies and Development Delays

- **Lengthy Development Cycles:** New integrations and custom data formats required a full development cycle, taking over eight weeks and delaying time-to-market.
- **Overburdened Teams:** All transformation logic and bug fixes required the involvement of specialized development teams, creating a significant bottleneck.
- **Process Inefficiencies:** Complex tasks such as deduplication and content tailoring were time-consuming and manual, making it difficult to scale and meet service-level agreements.

- **Scalability Issues:** The existing framework was not built to handle the exponential growth in the number of suppliers and volume of product data.

QBurst Solution: Unified Data Management Platform

We developed a unified data management platform based on Talend, a powerful ETL tool, to address the client's challenges. The solution was designed to be modular and user-friendly, allowing data analysts to perform complex data transformations with minimal technical expertise. This decentralized the transformation process, significantly reducing the workload on specialized teams and accelerating time-to-production.

Key Components of the Solution

- **Reusable Jobs and Routines:** We developed a library of reusable jobs and custom routines that data analysts can easily use in a drag-and-drop interface to build complex data pipelines.
- **Talend Data Mapper:** The platform leverages Talend Data Mapper as the central tool for orchestrating jobs and enabling efficient, scalable data transformations.
- **Efficient Data Ingestion:** The solution can ingest product data from a wide range of manufacturers and suppliers and transform it into a unified, standard format.

Technical Highlights

- **Unified Platform:** Consolidated the client's data integration footprint, simplifying their ETL landscape and improving overall management.
- **Simplified Workflows:** The intuitive interface allows non-developers to create and manage complex data transformation workflows.
- **Accelerated Transformations:** Reusable jobs and routines streamline the implementation of new business logic, from data ingestion to final output.
- **Standardized Data Formats:** Data from all sources is transformed into a consistent format, ready for various downstream applications.

Impact

- **Reduced Integration Time:** The client decreased the time required for new integrations from months to days, with some integrations now taking as little as 15 days, a significant improvement from the previous 60-day timeline.
- **Faster Time-to-Market:** The improved cadence for implementing new functionality reduced timelines from months to weeks.
- **Enhanced Productivity:** The solution empowered data analysts to perform business-critical tasks, freeing up specialized teams and enhancing overall productivity and efficiency.
- **Lowered Operational Costs:** The platform's efficiency and streamlined processes led to smaller ETL footprint and reduced manual effort, resulting in lower operational costs.