

DATA INTEGRATION SERVICES CASE STUDY

McDonald's accelerates migration from legacy ETL platform to Talend by 80%



Overview

When a division of McDonald's, the leading food service retailer, decided to migrate its legacy ETL platform to Talend, it worked with Wavicle's data engineering experts to migrate data from IBM DataStage to Talend.

Cloud migration reduces costs, increases flexibility

The McDonald's organization responsible for global restaurant operations improvement captures and analyzes data about everything from food safety to speed of service and customer satisfaction. This data from over 37,000 restaurants across 108 markets worldwide, was stored in an on-premises IT ecosystem. To reduce its data center costs and improve flexibility and scalability of its data management environment, this group decided to migrate its entire on-prem IT ecosystem to Amazon Web Services (AWS).

The move to the cloud prompted the organization to migrate its data integration technology as well. Concerned about diminishing support for its DataStage tool, the group chose to migrate to Talend and enlisted Wavicle's ETL migration services.

Migrating ETL from DataStage to Talend

Wavicle's ETL migration experts approached the work in three phases:

- Analysis: Analyzing, categorizing, and scoping the work
- Development: Converting ETL jobs from DataStage to Talend
- Testing: Testing of output across both platforms to compare results

Our team leveraged ETL conversion accelerators and proprietary testing tools to automate and accelerate these time-consuming tasks and dramatically reduce the development time. To get started, they simply fed legacy ETL components to the Wavicle's Data Integration Code Converter for analysis.

In this case, the analysis of ETL jobs identified a large inventory of DataStage components. Working closely with the group's business analysts, we identified backup or obsolete jobs that could be eliminated from the conversion project. This left nearly 300 jobs to be analyzed and ranked for their level of complexity based on parameters such as number of nodes, objects, occurrences, SQL statements, system types used, and transformation expressions.

Faster delivery of critical data

Using Wavicle's accelerators and frameworks to automate the analysis, conversion, and testing tasks, we successfully converted all ETL jobs to Talend, saving 95% of the analysis work and 81% of the development effort.

ETL conversion tool reduces analysis and development time

Without ETL Converter		With ETL Converter		Time Savings
Total number of jobs	283	Total number of jobs	283	
Estimated analysis hours	1,056	Actual analysis hours	80 ¹	95%
Estimated conversion hours	10,864	Actual conversion hours	2,077 ²	81%

Additional value of the project includes:

- **Licensing cost savings:** Move to Talend reduces ETL software licensing costs by 75%³
- **Ongoing software support:** Access strong Talend support team and community vs. reduction in DataStage support
- **Integration:** Talend provides seamless integration to other global data analytics solutions like Redshift, Tableau, ad hoc extracts, etc.
- **Easier maintenance:** Reduces costs of developer rates by cutting the time nearly in half to build, pull, and extract data elements with fewer errors than manual ETL
- **Reduced cycle time for enhancements:** Developers have the ability to tap into the core products of Talend and use community-supported and created plugins to match any specific ETL need
- **Reduced infrastructure costs:** Eliminating need for on-premises infrastructure saves data center operations and maintenance cost

[1] This effort denotes the time taken by converter to generate the detailed analysis reports. Additional effort spent to validate and document the results.

[2] This effort is for the overall conversion activity. Small amount of additional effort will be required to tweak the complex category jobs.

[3] Based on the published pricing



About Wavicle Data Solutions

Wavicle Data Solutions specializes in rapid delivery of data and analytics solutions. We help clients leverage cloud-native technologies to capture, analyze, and share growing volumes of data for advanced analytics, machine learning, and artificial intelligence. Our mission is to enable fast access to data by combining automation with deep technical expertise, strong industry knowledge, and flexibility. Our value is helping enterprises imagine new ways to manage costs, increase sales, and become more efficient.

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