

We've Automated Data Migration So You Don't Have To



A leading pharmaceutical company was tasked with migrating critical manufacturing data from a legacy system to a new management platform. Given the complexities involved in data migration, the company decided to team up with DataFactZ to move its existing SSIS to a new data integration platform, and benefit from the seamless data integration solutions offered.

Problem

With its old SSIS software, the client encountered several problems:

- Inability to consolidate Data.
- Structure that is not suitable for user requirements.
- Slow Reporting process.
- Inability to extract essential business data from the current computing structure.
- Manual Report distribution.
- Hours of manual cleansing by Data Analysts to ingest suitable format of data to other BI/Reporting/Visualization software's for better decision making.
- Tight schedule for Data Migration.

Ideal requirement of Client

- Automatic generation of Reports.
- Distribution of Reports via web interface.
- Simplified generation of new reports.
- Ingestion of source data from client's ERP system.
- Minimal demand on current systems.
- Demand for a Tool that can be easily adapted by Data Analysts for automating the Data Cleansing Process for analytics across any platform like Tableau, Qlik View, SSRS, SAP, & SAS.

- Identifying over 3000 fields and migrating them to the new environment which comprises of 300+ tables within in the scheduled time.

Solution

Following a detailed scrutiny of requirements, the client was faced with a tight deadline: to deliver all data into the new platform within two months. It was clear that DataFactZ would need to custom code a solution that would automate the process. This allowed us to automatically detect and adapt to continuously evolving input data formats in time for the deadline. It would also help in migrating complex SSIS packages to Talend.

Brief analysis

After a brief analysis, DataFactZ engineers quickly built a Proof of Concept demonstrating an automated analyzer, which exchanged metadata across integration jobs and migrated SSIS packages to Talend, all without requiring consultants' inputs. After realizing the efficiencies gained by leveraging the automated nature of the PoC, the organization quickly agreed to take the prototype into implementation. Fueled by the success of the initial architecture, Data-FactZ was able to achieve a successful migration within two months.

DataFactZ used parallel adoption for implementing the solution, and be more cost-effective than the phased approach. Meanwhile, the development team managed the legacy data warehouse while implementing the new data warehouse. Because the same amount of data was processed through two

applications, more hardware and operational cycles were needed. However this method helped avoid data black out days, and prevented any down time from the legacy data warehouse. At the same time, users were able to compare data from both applications until user acceptance testing was completed.

Data Warehouse Facts

- Microsoft SQL Server 2014.
- Fills once a day during o -peak hours from Central Site (one-to-one copy of source system).
- Maps 3000 fields into 150 database tables.
- 135 SSIS packages varying in their complexity.

Talend DI Performance Facts

- 65 Data Integration jobs run on a planned schedule using TAC (typical operations include sort, look-up, and join).
- Talend Metadata Mapper identifies and enables automated framework to migrate a highly complex SSIS packages into a pre-defined database structure with intervention.
- Overall duration of a single day feed is approximately 30 minutes, 3.75 million records / 700 MB.
- Fills once a day during o -peak hours from stage area (one-to-one copy of source system).
- Maps 3000 fields into 150 database tables.
- 35 Data Preparation workflows.
- Automated Test cases that compares the test file with the output file.
- Automated Catalog analysis and Column Analysis data for comparison of legacy to new system which helped in improved data quality.

Conclusion

DataFactZ helped our client generate clean data for analytics without any downtime, all while reducing the cost of maintaining an EDW. This in turn allowed users to make more effective decisions that facilitated the organic growth of the organization. This new platform not only helped the organization settle into the current environment, but also helped them prepare for eventual Big Data adoption, as it moves towards Big Data in the next few years.

We at DataFactZ have learned that in order to ensure the successful migration of a tool, it is imperative to be vigilant about different areas of concern or problems. Had it not been for our engineers' ability to adapt to changing requirements through the development phase, it would have been near to impossible to migrate the numerous tables. With that, we now see how a little creative thinking can go a long way to avoid repeating tedious work, and speed up projects along the way.

The Next Step



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