



Full Data Infrastructure Rebuild for Agribusiness

Streamlining and modernizing data infrastructure

Overview

The Canadian Agribusiness arm of a multinational Pharmaceutical and Life Science company had struggled with data infrastructure performance for years. An old system that had been patchworked together over years of changing business needs was getting to a breaking point where issues were plentiful, and troubleshooting was slow.

A new solution was required that would allow all peripheral systems (end user interfaces, points of ingestion, reporting) to remain the same while bringing the underlying data infrastructure up to modern standards.

The Challenge

The business had many complaints and pain points with their former data landscape:

- Lack of speed – for an element of data to get from one end of the data landscape to the other could take up to two days of wait time; large lead times were required when there was a need for any new integration point
- Lack of transparency – it was impossible to know where data was in the process of flowing through the system, if data movement encountered an issue there were so many points of failure it was very difficult to troubleshoot issues
- Financial liabilities – marketing and financial decisions as well as reimbursements were processed through the system, without reliable data there were significant liability issues

80% +

Reduction in points of failure

9

Peripheral systems/sources remained unchanged for users



End to end data flow went from taking days to minutes

The Solution

In order to rectify all business pain points, Raven Bay opted for an overarching solution where:

- Two database systems were fully replaced each consisting of multiple database tables and integration points
- The replacement was an overarching Talend solution, which is an enterprise service bus platform allowing a dramatic reduction in data storage and connections
- Rebuilt all communication between peripheral systems totally nine different connection types

The Results

The solution enabled:

- Increased integration - many pieces of what has been built can be reused for new integration points, greatly reducing the time to ingest new data sources; where previously it would take up to two days for data to run end to end it is now down to minutes
- Increased transparency - queues and trigger-based data movement have replaced most scheduled procedures, enabling traceability; with far fewer jobs and significantly better logging, troubleshooting will be much easier
- Decreased financial liability - reduce risk in incorrect reimbursements as well as unauthorized marketing communications

“I fell off my chair”

Business user commenting on improved speed of data movement



About Raven Bay

As a full-service management consulting and analytics firm able to deliver solutions in both the business & technical realms utilizing the same set of resources; thereby shortening delivery timelines and providing more holistic solutions for our clients. Our proven methodologies & hands-on experience enabling organizations to achieve the benefits of an effective analytics program through this offering also accelerate the development & value realization of the unique Governance Model we will create for you.

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