CASE STUDY

ENTERPRISE APPLICATION INTEGRATION FOR A EUROPEAN INVESTMENT BANK

Customer Background

Our client is a leading investment bank focused on the CIS, Central and Eastern Europe and Africa, and other high-opportunity emerging markets. The company provides a full range of investment banking products and services, including equity and debt sales and trading, corporate advisory, capital raising, research, structured solutions and derivatives. The firm's clients include corporations, governments, institutional investors, and individuals in more than 60 countrie.

Business Challenge

The client began the implementation of a new back-office system and needed an interim solution for integration with financial systems. Information about trades arrived from the back-office system as business entities with attributes and transactions that were conducted. By contrast, information about finance systems was stored as General Ledger postings. Therefore, the main challenge was to build a flexible solution that would use certain rules to transform business entities into General Ledger postings. These rules had to be dynamic, changing to be aligned with business needs. We discovered and applied approximately one thousand rules and templates. Another challenge was to build a highly loaded (able to handle 1.5 million integration messages per day) and scalable (both horizontally and vertically) system.

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Project Description

Considering the complex and frequent changes of the transformation rules, we built a flexible solution with a convenient user interface for nontechnical staff. Additionally, we broke down solutions into modules; each of them could run on multiple instances on different servers, providing the required scalability.

The solution consisted of three parts:

- Importer Scanner. Receives messages from the back office through the bus, processes and stores them in an internal database. In addition, it generates internal events for posting information into accounting systems.
- Trading Accounting Engine. Enriches the business entity using static data, for example recalculation of trade's sums into accounting currency.
- Scanning and Transformation Engine. This application transforms and posts data into a target system
- Users can specify transformation rules using visual forms. Significant features of our solution are monitoring and logging. Users can track each transaction and, if necessary retransform it.
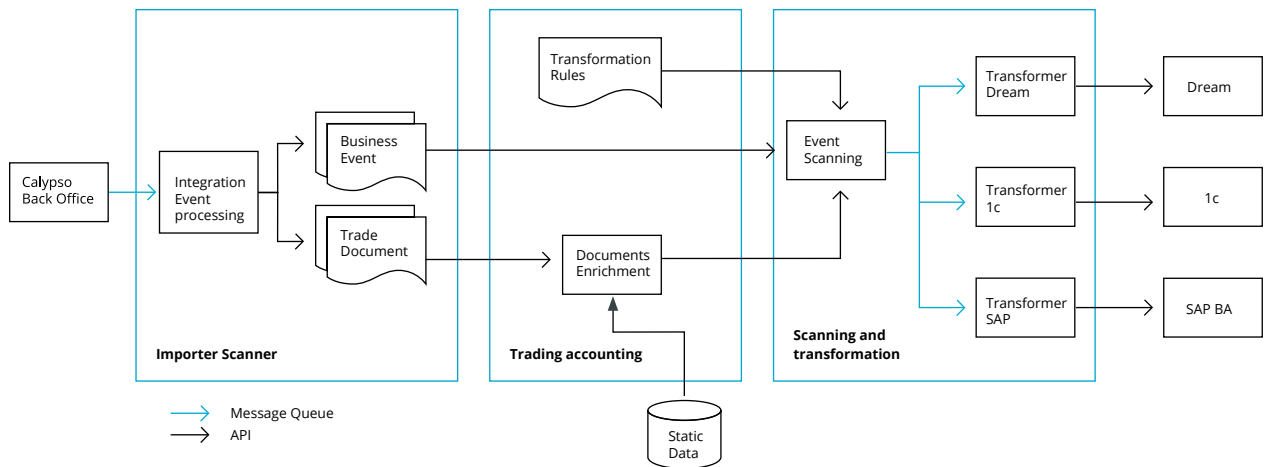
Solution architecture

Value Delivered

- The scalable architecture supported 1.5 million integration messages per day.
- Our flexible solution supported approximately one thousand transformation templates, which may be extended by non-technical users.
- A significant reduction in the number of errors during integration, in comparison with the previous system.
- Reducing the support team's workload by up to 40%.

ABOUT US

SoftServe is a digital authority that advises and provides at the cutting-edge of technology. We reveal, transform, accelerate, and optimize the way enterprises and software companies do business. With expertise across healthcare, retail, media, financial services, software, and more, we implement end-to-end solutions to deliver the innovation, quality, and speed that our clients' users expect.

SoftServe delivers open innovation—from generating compelling new ideas, to developing and implementing transformational products and services.

Our work and client experience are built on a foundation of empathetic, human-focused design that ensures continuity from concept to release.

We empower enterprises and software companies to (re)identify differentiation, accelerate solution development, and vigorously compete in today's digital economy—No matter where you are in your journey.

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