



Scaling the administration of complex synthetic securities

The Challenge

Our customer issued and managed complex synthetic securitisations across multiple asset classes. A system was needed that could cater for all aspects required within its deal administration

- Bond and loan data management including amortization schedules
- Asset and portfolio level hedging
- Trade management including hypothetical scenario analysis
- Cash account management
- Compliance tests
- Internal and investor reporting

Due to the complexity of the transactions and number and variety of data points that would captured over the long lifetime from issuance to maturity, spreadsheet models would not capable of accurately and efficiently recording, analyzing and reporting.

Our customer identified the opportunity for the creation of a web-based SaaS portfolio management system backed by SQL Server for computing and data storage.

How StructureIt helped

Leveraging our deep understanding of securitization, StructureIt designed, developed and deployed a multi-tenant system capable of managing all the core instrument data and trading activity with full history.

Some of the key aspects to the solution included:

- Ability to manage user controlled custom data fields across all core instruments
- A module that enabled fully customizable transaction-specific logic for advanced calculations, reporting and compliance tests
- Reporting functionality where new reports could easily be uploaded and instantly run and distributed
- Role based controls for multi-user access and permissioning
- Full auditing across all data aspects
- Full suite of system and user documentation



First and foremost, StructureIt modelled the transactions, and designed and built the customer's reports to their requirements, after which we built the end-to-end solution.

With strong and active communication throughout the process, StructureIt did all the heavy lifting and the customer had confidence that the resulting system and transaction modelling would be accurate and on time.

The Results

The customer now has an intuitive web based application and is able to administer their securitisations in a highly available, stable, secure and timeous manner. The customer is able to focus on the business of managing the economics of their transactions and their investors, and not maintaining unwieldy spreadsheets that would become increasingly slower through time and data saturation.

The system has been in place since 2008 and required very little maintenance outside of the addition of new transactions.