

CMBS Data extraction project

Business Requirement

A diversified financial services company focused on real estate and related services, was committed toward improving their infrastructure and their analytical capabilities within the CMBS sector. In focusing on that goal, they contacted Beyondbond to assist them in creating a data mining tool capable of identifying and extracting relevant information from vendor-specific data files. The tool needed to be able to navigate through tiers of data from deal-level to tranche-level, and even down to loan-level mortgage data. The results were to create greater transparency within newly expanded data sources, as well as improved data extraction, analysis, and retention. To maintain the information Beyondbond also created an expandable relational database to house the data.

Beyondbond Solution

Employing cutting-edge financial analytics and advanced technologies, Beyondbond is a leading financial solutions provider for the fixed income markets. In approaching this project Beyondbond first analyzed the existing client system. By gathering expertise from various key personnel from both the client's staff as well as those at Beyondbond with direct experience in the CMBS sector, a detailed requirement for the data structure was established. When working on this initiative a major focus was placed on increasing the clients' connectivity and data extraction capabilities with that of an established vendor of structured fixed-income data. The client's software was overhauled to allow for ease of use, to prevent random application shut downs when connected to outside vendors, better access to information on cashflows and deal level data, customized reporting, and a new SQL database server. Beyondbond's domain knowledge also helped the client to fix an existing mistake, resulting in the on time delivery of a data set necessary for project completion. As an added benefit, the solution was written to provide adequate expansion capabilities if the source data ever changed in the future.

Business Value

Applying Beyondbond's extensive experience in the mortgage markets and expertise in the technology sector they were able to overcome the issues at this financial services company. Success was achieved by providing the company with the data tools necessary to analyze and structure mortgage related securities. These new software developments increased their data mining capabilities dramatically. Details on deal and tranche level summaries, collateral information, and loan/pool characteristics such as DSCRs, LTVs, cashflows, call protection, amortization types, FICO scores, DTI, WAC, property types, geographic breakouts are now easily captured and placed into customized reports. By providing a customized data mining tool to extract pertinent information, Beyondbond was able to consolidate and organize CMBS-specific data into an expandable relational database. This solution allowed for transparent access of CMBS information by other

infrastructural tools with the use of standard SQL queries. The results have lead to a pool of clearly defined data points for use in the analysis of their current mortgage deals and that of potential securitization deals in their pipeline.