

Our Mortgage Industry Capabilities

Information Integration & Innovative Solutions



iCUBE Systems' team has delivered three major re-architecture and development projects for mortgage majors since 2002, namely - **Servicer & Investor Reporting** (from Loan Acquisition to Securitization and Reporting), **Financial Restatement, Loan Underwriting**, and **Capital Markets Valuation Systems**. Our consultants have hands on development experience in loan underwriting systems for single family loans. With over **eight years** of extensive experience in **mortgage industry**, our consultants are very familiar with mortgage industry standards like **MISMO** standards; **MISMO XML**; Implementation of **FASB** rules like **FIN46, FAS140**, and **FAS133** for securities accounting and valuations.

Loan Underwriting Systems Experience

iCUBE Systems' consultants have significant experience in the development and maintenance of **loan underwriting systems** for mortgage majors' **single family underwriting systems**. Our experience in the development of underwriting systems include:

User Interface & Rules Engine development

- ◆ Development of User Interfaces for **DU (Desktop Underwriter System)** for a major mortgage financier.
- ◆ Technical development & maintenance for rules engine (**iLog JRules** – a Java based platform for rules development, maintenance & execution) for "Loan Prospector" underwriting system for a mortgage major.

Implementation of changes due to policy and guidelines

- ◆ **Credit risk assessment** based on new data and loan performance
- ◆ Updates to Minimum Credit Scores, Rules to Biweekly Loans, Mortgage Insurance Premium requirements and Special Feature Codes
- ◆ Miscellaneous Underwriting, Eligibility, Property-Related Updates and Reserve Requirements

Capital Markets Valuation System & Financial Restatement Effort

iCUBE Systems' experience in these areas include:

- ◆ Designing, Building and implementing an application to handle **Financial Accounting Standards Board (FASB)** Interpretation Number 46 (**FIN46**) accounting policy to appropriately consolidate and de-recognize Trust and store cost basis into relational database.
- ◆ Design architecture and integration of various modules under **Securities Cost Basis Sub-Ledger**, Financial Reporting Data Mart, and Securities Valuation & Financial reporting

Systems as part of revaluing assets (due to changes in regulation) for restating financial results.

- ◆ Build and Implemented a **Credit Enhancement (CE)** analysis system for Guaranteed Assets & Guaranteed Obligation (GAGO) valuation system for Capital Markets.
- ◆ BRD analysis and estimate LOE for various processes and help conceptualize, manage and plan the project.
- ◆ Design ETL processes and also develop various interfaces / common components used across multiple projects.
- ◆ Review of documents and code for **standards, best practices – SOX compliance** and Quality Assurance.
- ◆ End-to-end systems integration (of technologies involving UNIX, AbInitio, Java JMS Queues & database), and developing standards and integration test plans.

Servicer & Investor Reporting (S/IR)

Servicer & Investor Reporting (S/IR) - a major re-architecture and System Integration project for a mortgage major that involved processing information related to origination of loans and their subsequent **securitization** into **mortgage backed securities (MBS)**.

- ◆ Defining an architecture that is flexible enough to adapt changes in mortgage products and delivering new security products to investors,
- ◆ Analyzing data from external sources,
- ◆ Integration of Data from external and legacy systems into new S/IR system
- ◆ Developed data transformation strategy and data mining for analytics
- ◆ Build a Java based, multi threaded loan analysis system for acquisition decision making (more like a custom rules engine for analyzing loan characteristics)
- ◆ End-to-end integration of various systems that span across heterogeneous databases and web servers