

**BUSINESS
SERVICES**

CASE STUDY: BUILDING A STANDARDIZED MODEL REPOSITORY FOR A BANK'S CORPORATE AND INVESTMENT BANKING DIVISION

Explore how a leading global bank uses CATIA Magic for enterprise metadata management.



CLIENT

A top-tier global financial institution specializing in commercial and investment banking (CIB), managing complex financial ecosystems, software lifecycles and regulatory compliance across globally distributed teams.

Background:

To navigate increasing regulatory pressure and operational complexity, the bank's CIB division required a robust modeling solution to:

- Streamline agile software development
- Standardize system architecture
- Improve compliance and audit readiness
- Enable collaboration across global teams

Existing modeling practices were fragmented, lacked standardization and couldn't support integration across diverse modeling environments. The bank's teams needed a unified enterprise-wide repository and modeling approach that could scale and interoperate across different toolsets.



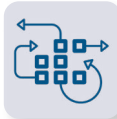
CHALLENGES

The bank faced several key challenges:

- **Complex system dependencies**
Thousands of interlinked models made versioning and updates difficult.
- **Software development bottlenecks**
Fragmented modeling created slowdowns across DevOps pipelines.
- **Regulatory alignment**
Modeling was required to support auditability and reporting.
- **Multi-team collaboration**
Dispersed teams lacked cohesive tooling.
- **Model repository limitations**
No vendor repository supported all tools, prompting the bank to create its own proprietary system.

SOLUTION

By implementing [CATIA Magic](#) on the **3DEXPERIENCE®** platform, the bank was able to:

-  **Build a custom metamodel** using Unified Modeling Language (UML) and Meta-Object Facility (MOF) specifications to ensure consistent modeling practices.
-  Support **agile software architecture** and **represent software release cycles** using **standardized** UML diagrams.
-  Enable **live cooperation, distributed version control** and **secure model sharing**.
-  Enhance **visibility and data tracking** across modeling teams and stakeholders with centralized version-controlled modeling.
-  Author all models and store them in a **custom-built repository**.
-  Ensure **long-term scalability** and **multi-tool compatibility**.

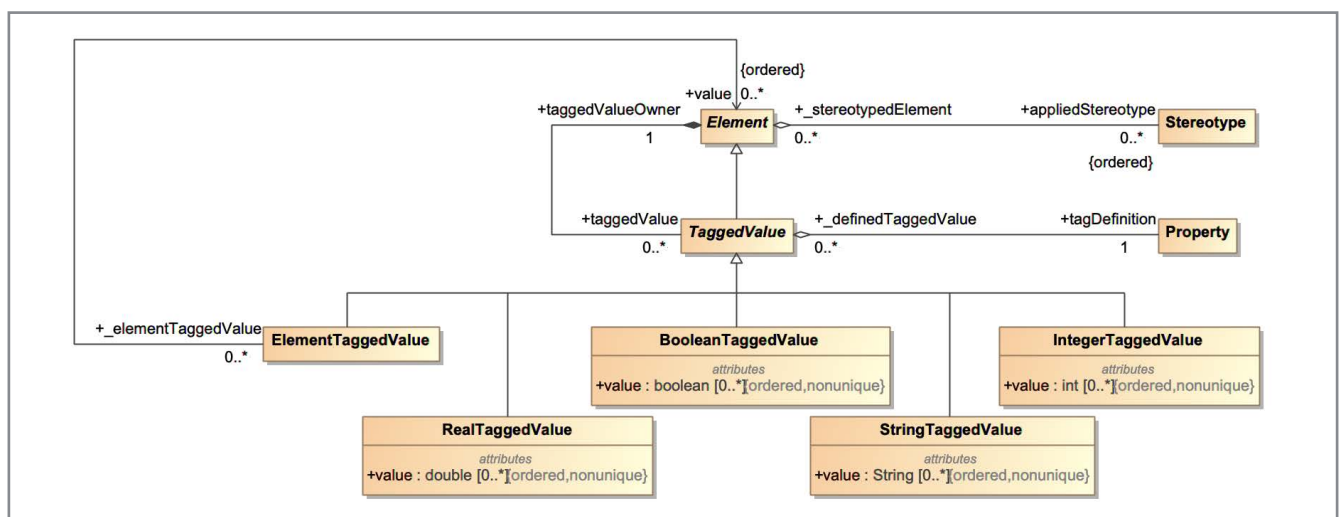


Figure 1 – Reference Metamodel

RESULTS

CATIA Magic's implementation resulted in building a **standardized metamodel** for enterprise data architecture and regulated system design, and brought significant improvements across the bank's CIB division.



A consistent modeling framework

A unified metamodel improved model accuracy and clarity across thousands of interlinked systems.



Regulatory traceability

Enhanced data lineage and compliance tracking supported audit readiness and regulatory reporting.



Productivity gains

Teams significantly accelerated modeling efforts, realizing up to 20% time reduction through effective reuse and minimized duplication of work.



Enterprise interoperability

The new structured models were fully integrated into the bank's systems.



Scalable global collaboration

Instant teamwork and version control across distributed teams and business units was made possible.



CATIA Magic is the best-of-breed modeling tool in our architecture stack. Its UML capabilities, flexibility and integration with our proprietary systems have made it indispensable for managing complex, regulated environments like ours.

— Lead Information Architect, Model Engineering

