

### Abstract

The Client a number one bank in Europe having a presence in over 85 countries chose KPIT as its preferred partner for Collaborative Software Development for its Global Re-engineering Project (GRP), to be rolled out in 14 countries in Europe

GRP aims at having a world class STP enabled Software system for **Securities Services** and re-engineers their existing legacy application to STP enabled java based system.

### Challenges

- Implementations in 14 countries -
  - Communication
  - Knowledge Transfer
- Complex Business Domain Knowledge
- Extreme Programming practice
- Soft Challenges
  - Ramping Up with consistent quality of people
  - Entry in to the project at the most difficult time

## Global Re-engineering Project

### Customer Satisfaction -

'KPIT Cummins has shown great flexibility, professionalism as well as a continuous commitment to our deadlines, all along our year-long partnership, that we are now extending to the second phase of the project.'

#### Head-Global Re-Engineering Projects

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### Solution

KPIT Cummins identified a - **onsite/ offshore co-development model** to execute the project. The requirement analysis, high-level design, framework design & coding was done by the onsite (client) team. The offshore (KPIT) team was responsible for iteration planning & approval, low level design (Rose modeling and code generation - MDA), coding, unit testing, functional testing, code reviews, builds and release notes. Teams were e•changed between the onsite and off-shore on a rotation basis to ensure knowledge transfer. Effective communication was ensured through regular emails, chat and a series of teleconferences

### Value

KPIT Cummins suggested the use of XML as a database instead of the standard Win CE database to enhance the scalability of the application, proposed an XML schema for standardization of XML throughout the project.

**Methodologies**

- Mix of Extreme Programming & Agile Development
- A 15 Days release cycle for project transparency

**Tools & Technology mix**

- Rational Rose, Jbuilder, Jboss, StarTeam,
- Maven, WIKI, Junit, DBUnit, Checkstyle

**Technologies**

Operating System: Windows NT4 and SP6a

Three Tier Architecture

- Front End in - Java / J2EE
- Middleware in - Java / J2EE, TIBCO
- Backend - Oracle 9i

**Engagement Structure**

- Engagement duration: 4 years
- Size of the Project : 300 person years

**System Architecture**

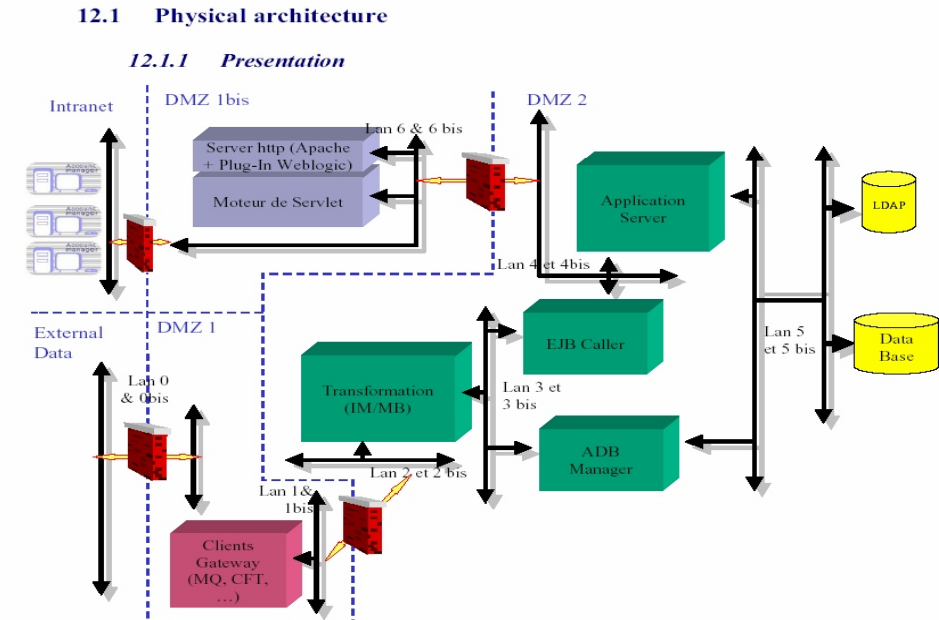


Figure 11: Physical architecture of GRP

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