



AXI NV

<http://www.axi.be/>

Industry: Public - Software

Oracle Products & Services:

- Oracle JDeveloper / Oracle ADF 11g Release 1
 - ADF Rich Faces
 - ADF Task Flows
 - ADF Business Components
- Oracle Weblogic Server 11g Release 1
- Oracle RDBMS 11g Release

Related Software

- Microsoft Windows Server 2003 SP2
- Linux
- Subversion
- WebDAV
- Subversion
- JBoss jBPM 4.1
- JACOB - Java COM Bridge
- Java 2D API

Project Scale:

- Project leader
- 2 Business Consultants
- 5 Oracle ADF / Java Developers
- 5 Application modules
- Business Components
 - 87 Entity Objects
 - 162 View Objects
- 156 TaskFlows

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“By choosing the ADF 11g framework and JDeveloper, AXI was able to fully focus on the development of its new case management solution, instead of focusing on the underlying technology.” - Gert Leenders, Product Manager Case Management, AXI

Executive Summary

As a solution and service oriented Oracle partner, AXI opted for a sectoral approach. AXI distinguished themselves in the following areas: public sector, retail, healthcare and service. AXI first focused on the Belgian market; In 1989 AXI entered the Dutch market and now AXI solutions are used in more than 30 countries.

This study discusses how AXI developed a new version of their Case Management Tool using Oracle technologies including Oracle's Application Development Framework. This cutting edge product was developed in 8 months with only 5 developers and 2 business consultants. The details of AXI successes with Oracle ADF and the ultimate solution details are provided within.

The Business Issue

AXI Case Management was developed to meet the demand for a solution whereby the case is central. Market analysis clearly revealed the need for a solution composed of the following three parts:

- Recording data
- Task driven approach with control of the case by means of a workflow (procedure)
- Delivery of the final product (license, judgment, certificate...)

Given that – within a case - the content is central, it had to be possible to seamlessly integrate with existing document management and content management systems. Due to the changing nature of the data and the procedures associated with cases, the solution had to be flexible and the client needs be able to manage it themselves without further intervention from specialists, consultants, third parties or AXI (the supplier).

Key Challenges

- To develop a uniform case management tool for the public sector in eight months with a team of five Oracle's ADF Developers available.
- The solution has to deal with the fact that operational processes are subject to change, and therefore has to offer the users the necessary tools to organize the case processes in a flexible manner.
- To build a product based on user-centered design (UCD) and self service applications.

Solution

The ADF Framework helped to achieve the goal of providing a flexible solution which is able to adapt to the different businesses and cases by the following techniques:

- 234 JSF Page Fragments
- 430 Java Classes

To make the administrative processes more efficient, AXI Case Management has combined the advantages of workflow management and document management into one solution.

The default integration with a document management system is via the use of web services and the Java Content Repository. An optional integration based on WebCenter or WebCenter Services is possible regarding the client's needs and/or their present architecture.

The use of ADF Business components made it possible to deliver a product which is easy to adjust to the customer needs via run-time manipulations; visually this is translated into the solution as flexible tab pages and flexible fields. These flexible elements, which are all ADF Rich Faces Components, can be managed by the customer itself via the provided administration applications.

The available Standards of The ADF Framework made it possible to seamlessly integrate with other open source technologies like jBPM.

Demands such as customization and personalization were achieved based on Oracle Meta Data Services (MDS).

The integration of a BPM solution based on the Plan-Do-Check-Act required the integration of a Dashboard for the necessary feedback on the workflows. The ADF graphs and visualizations components were used to make this possible.

The Oracle Solution: Oracle JDeveloper / Oracle ADF 11g, Oracle WebLogic Server 11g and Oracle RDBMS 11g

In AXI's search for the best solution to the demands of self service applications in a user centric environment, Oracle ADF 11g seemed to be the best fit. Within the ADF technology stack AXI decided to follow the choices Oracle made for the development of their next generation business applications, Fusion.

Business Value

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Oracle Value

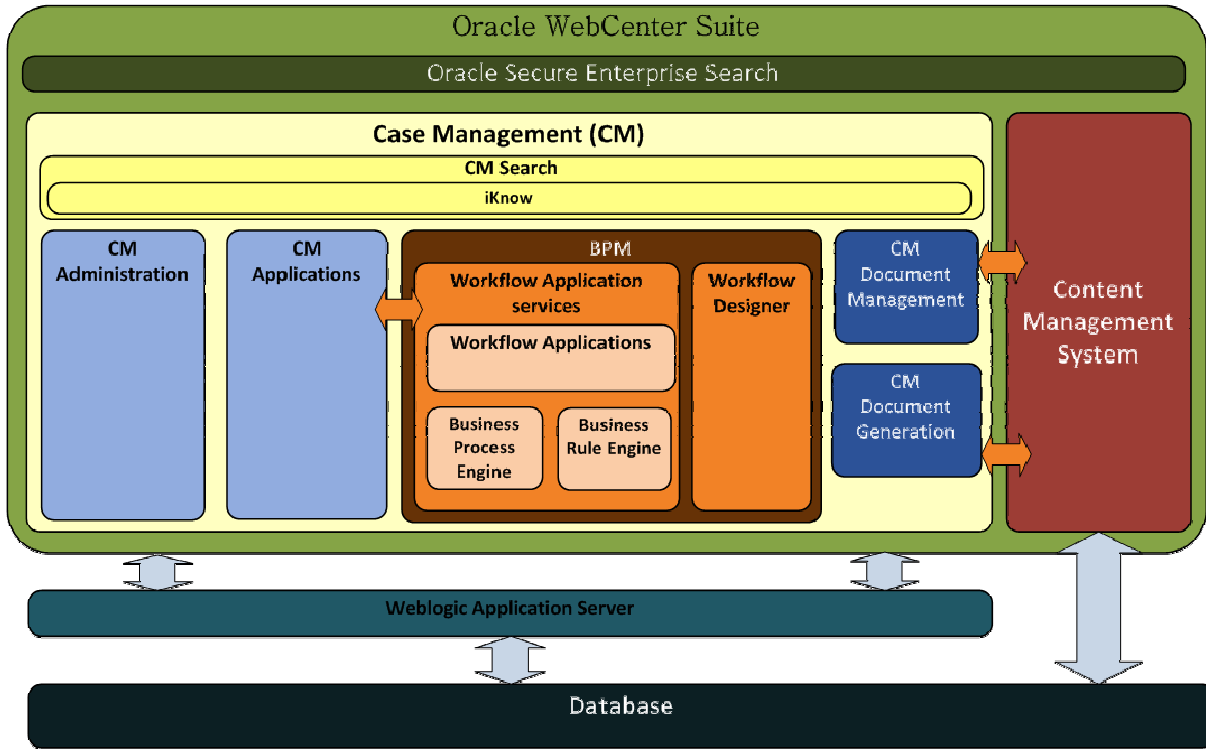
The fact that ADF integrates within Fusion and therefore gives the opportunity to integrate with the complete Oracle Fusion middleware stack was a big plus. Further, great detail was given to reliability and scalability demands and the WebLogic platform fulfilled the requirements. Last but not least AXI needed to integrate with some other Java technologies, so their development platform had to support other JEE techniques and Java standards. Since ADF itself is built on top of widely accepted standards it integrates very well with the aforementioned technologies

Credits:

AXI
Gert Leenders, AXI
Luc Walgraeve, AXI
http://www.axi.be/sites/default/files/AXI_Case_Management_Leaflet_UK.pdf

Dana Singleterry, Oracle Corporation

Architecture



Application View

