



Software Development on EMC Documentum Platform Overview

01 About Qulix Systems



Qulix Systems, a high level customized software development provider, possesses deep expertise in the development of industrial systems on EMC Documentum platform. For the last five years the specialists of our company have implemented more than 10 large-scale projects for different customers, with different business-goals, using different technologies and platform versions (from 4.3 to 6.5).

02 Technological Expertise

Qulix Systems has gained a huge experience in successful use of EMC Documentum technologies and products. Moreover, our company is known as an expert in the industrial development on J2EE and other associated platforms. All the development processes are carried out in accordance with quality assurance branch standards and with use of modern technologies and tools.

Technologies and products:

- Documentum Content Server, Business Process Manager / Services, Federated Search Services, DFC, BOF, DFS, WDK, DQL, XDQL;
- Apache Tomcat, JBoss Application Platform, Websphere, Weblogic, Oracle Application Server (OC4J), Oracle, MS SQL, PostgreSQL, MySQL, HSQL;
- Java, JavaScript, HTML/DHTML, JSP, Servlets, XML/XSL (XSLT + XSL-FO), Wicket, Tapestry, GWT, Hibernate, Spring, JUnit, HtmlUnit, DBUnit.

Tools and development environment:

- Documentum Developer Studio, Documentum Composer, Documentum Application Builder, Documentum Administrator, Retention Policy Services Administrator, Webtop, Eclipse, IntelliJ IDEA;
- Apache Ant, Maven, Cruise Control, Atlassian Bamboo, CVS, SVN, ClearCase.

Tools and automated functional and load testing facilities:

- Mercury WinRunner, Mercury QuickTestPro, Segue SilkTest, Mercury LoadRunner, Segue SilkPerformer.

03 Our team



At present there are 12 developers who have more than 9-month experience in the software development on Documentum platform, which comes to 9 years of summary expertise. In addition, thanks to the training and knowledge exchange system, established in our company, we can quickly train up to 5 specialists from among skilled Java developers every month. Qulix team consists of best technical universities graduates and international contests awardees. They are all offshore programming professionals in the truest sense of the word.

Staff Training

We are proud of the internal unique technological culture, established in our company, which promotes innovation and free knowledge and experience exchange. Qulix internal specialists training programs are based on official training and certification programs, supplemented with the unique practical experience of our key specialists. A major part of our specialists are Sun Java certified developers.

04 Case Studies

Since 2006 our specialists have participated in 5 projects connected with the development on EMC Documentum platform. The most significant ones are described below.

1. WHDocFlow

Team: 6 developers, 2 testers, business analyst, project manager.

Technologies and products: EMC Documentum 5.3 (Content Server, Index Server, Webtop, Application Builder), BPM, DFC, BOF, DQL, WDK, Java, JSP, Servlet, JDBC, XML, XSLT, SQL, Oracle.

A document management system for a large trading company in the UK. The goal was to centralize and order contract relations with providers in conditions of the complex distributed structure of the company.

It includes contract management, internal document workflow, centralized catalogue with extended description of goods and marketing collaterals. The necessity to closely integrate the developed system with the existing information systems of the customer was a special feature of the project.

The prime contractor of this project, a UK company-integrator, authorized our company to implement all the tasks, connected with design, development and testing of the solution, keeping only management of the project, communication with the client, business analysis and distribution.

Implemented tasks:

- Development of the object model for hierarchy of documents types (over 30);
- Development of the documents life cycle and working processes in accordance with business processes of the company;
- Development of the user interface for all documents types (webtop + AJAX);
- Development of the supplementary controls;
- Development of the functions to create and modify documents;
- Development of the printed document forms;
- Enhancement of the audit and modifications history functionality;
- Development of the information rights management module (support of branch complex structure);
- Integration with the supply management system;
- Integration with the discount management system.

The duration of the project is 11 months, the systems is operating.

2. G-Procure

Team: 6 developers.

Technologies and products: EMC Documentum 6.0 / 6.5, BPM, DFS, DFC, BOF, DQL, WDK, Java, JSP, Servlet, JDBC, XML, XSLT, SQL, Oracle.

A supplier relationship management system for a governmental organization. The goal of the project was to adjust the existing procurement procedure in accordance with EU standards and to provide its high efficiency and transparency. The following functions were implemented within the system: preparation, coordination and publication of tender documentation, communication with the suppliers in the course of tendering process, registration of tender proposals, publication of tender results, management of contracts and other associated documents.

Implemented tasks:

- Contact management module development (automated creation on the basis of a template, coordination, confirmation, follow-up control, closing);
- Development of the tender documentation publishing module;
- Report module development.

The duration of the project is 14 months, the system is in operational testing, the functionality is being extended and user friendliness is being improved.

3. RusHydro

Team: 7 developers.

Technologies and products: EMC Documentum 5.3, Tomcat, Servlets, JSP, XSLT, AJAX, DQL, DFC, WDK, Spring (Web, Security), GWT, SmartGWT, Oracle.

A complex document workflow system for a large power engineering company. The goal of the project was to increase the efficiency of administrative decision-making process and its follow-up control under the conditions of the distributed multidivisional structure of the company.

The executor of the project, a russian company-integrator, involved our specialists into the improvement of the system in the course of distribution and operational testing.

Implemented tasks:

- Adjustment of Documentum platform to the best practices of the development process (automated deployment, continuous integration, automated regression testing);
- Improvement of various functions of the system according to the results of operation testing and their customization. The whole cycle of tasks, from object module and technological processes to interface modifications;
- Complete redesign of the initial presentation level implementation (built on browser-based XSL transformation) with the purpose to increase stability and efficiency. Thanks to XSL transformation transfer on the server and caching involvement we managed to decrease response time of the system in 3-4 times;
- Complete redesign of the system configuration mechanism to support configuration settings inheritance helped to escape many small defects that had been caused by faulty settings;
- Complete architecture redesign of the new system version, including switching to a modern technological stack (Spring, GWT), unification of server processes, switching to service architecture, support of the work with any client type;
- Development of the new system interface on the basis of GWT / SmartGWT / JS technologies let the system become more usable, provided the system with a more attractive design and, therefore, to increase customers loyalty;
- Development of the mechanism to visually administrate access rights to documents attributes let the customer escape manual editing of a great number of configuration files and delegate security and display modes tweaking to the system administrator;
- Development of the extended analytics and reporting module.

The duration of the project is 18 months, the system is operating.

05 Our contacts

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