



Leading Utility Solutions Provider Selects QAT Global for Data Warehouse Solution Modernizing with US and Brazil Cross Sourcing

At a Glance

Customer Snapshot

- Utility Solutions Provider
- International Locations

Solution Snapshot

- Batch processing
- High availability
- Cost effective
- High System Criticality
- Smooth transition from existing system
- Improved usability and functionality

Key Differentiators

- Brazilian Offshore capability
- Multi-location team
- Scrum Methodology and Project Management
- Established Java Coding Standards, Tools, Architecture, Training, Best Practices and Processes

Skills Used

- Ajax
- CSS3
- Eclipse
- Google Earth
- HTML4
- HTML5
- IBM Cognos
- IIS
- IVY
- Java
- JavaScript
- JQuery
- MyBatis
- Oracle Database
- Spring
- Spring MVC
- Spring Security
- Spring WS
- SqlServer Database
- SVN
- Tomcat

The Client and the Challenge

The client's company helps utilities and consumers make the most of finite water and energy resources. They deliver advanced measurement, data collection, analysis and control products and solutions that help their customers improve operational efficiency while reducing their environmental impact.

They needed a Data Warehouse solution to replace their outdated application, written in C++. To develop the solution, the company looked to trusted partner QAT Global for Data Warehouse modernization.

QAT Global's Approach

One of the key challenges facing the development team was that the old application had no documentation, thus all business rules had to be derived from source code. In addition, multiple databases had to be supported (Oracle, SqlServer).

The final solution QAT Global developed was a Web application mixing a Java back-end and IBM Cognos. The solution fully replaced the functionality previously available in the old application. As part of this effort, a new data warehouse star model and associated load routines were developed. The solution provided uses the QAT Global jDaptive and WebDaptive frameworks to provide a robust enterprise solution including a web-based interface front-end and enterprise scale back-end. In addition, there were several batch components used to process data and analytics.

QAT Global was responsible for developing the Web front-end, the Java back-end, and all Cognos modules, along with integration of the new system with existing portal. The QAT Global team worked with the client's internal team to develop the new database structures, load routines, and do all the testing.

The end result was a solution which:

- Allowed the client to retire its old system, which also removed the prerequisite of having a separate Windows box to host it
- Resolved previous processing bottlenecks, thus allowing bigger amounts of data to be processed
- Was deployed to all of the client's customers that were using the old application in less than a year

To date, QAT Global has worked on over 8 projects for this client spanning a multi-year relationship.

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