Volvo Logistics Selects QAT Global for Custom Software Development Project
Forward-looking Real-time Tool Developed Increasing Operational Efficiency and Maximizing Resources

VOLVO

Customer Snapshot
- Present in 190 markets with production in 19 countries
- 110,000 employees
- $32.7 Billion USD Global Group Sales (2014)
- Specializing in Industrial Engines and Machinery
- Gothenburg, Sweden
- volvogroup.com

Solution Snapshot
- Visual User Interface
- Radio messaging
- Modern UI
- High availability
- Cost-effective
- Real time application
- Revolutionized usability & functionality

Key Differentiators
- Multinational, Multi-location Team
- Agile Methodology
- Repeatable Process
- Overcame Significant Inherent Legacy

Skills Used
- CA Gen
- IBM Websphere
- Java
- Meta Graphic Library
- Oracle Database
- User Interface
- Visual Studio

The Client and the Challenge

Volvo Group is a global brand that offers a broad range of equipment from construction, public transportation, marine, trucking, and industrial engines. Volvo Logistics is part of Volvo Group and provides logistics services across the entire supply chain.

As a part of operations, Volvo Logistics operates multiple cargo terminals where auto and truck parts and components arrive via shipping containers. Those containers must be quickly disbursed to a multitude of end destinations. These terminals house many drop areas, each having specific layouts with defined locations and timing sequences for delivery vehicles and forklift operations to disperse goods to their assigned destinations.

QAT Global's Approach

In assessing the operational needs of the client, QAT Global determined that Volvo needed a real time tool that could give the planner an overall vision of the terminal area, with information about each location, availability and status of the load/unload process, thus making coordination of the operation more efficient and maximizing resources. It also became clear that they also need to be able to communicate individualized in-cab instructions for forklift operators and be able to track that those instructions were being followed.

QAT Global designed an application to give the user a natural vision of the business by offering a tool that could show an aerial view of the terminal, showing the layout of the different locations, and functionality that could be

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About QAT Global

QAT Global is a global information technology (IT) services company providing Agile-based software development, IT consulting, technology and distributed development services. We pride ourselves in being a leader in the delivery of enterprise business solutions through the innovative use of technologies such as Enterprise Java and .NET as well as Open Source components.

QAT Global focuses on delivering business results by helping clients find ways to capitalize on change, leverage emerging technologies effectively, and out-innovate competitors through collaborative engagements. The company leverages an enhanced global delivery model, innovative enterprise development framework for distributed environments, repeatable process methodology based in Agile and Scrum, multimedia communication tools, and deep industry expertise to provide high-value IT services. This approach enables its clients to improve their end user's experience, expand market reach, improve time to market, and reduce operating costs and risks.

QAT Global serves government agencies, companies ranging from early stage startups to Global 2000 companies, and leading software vendors.

Founded in 1995, and headquartered in Omaha, Nebraska, QAT Global has operations in the United States and Brazil.

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easily used to assign resources on the spot where the actions should take place.

- The solution allowed Volvo Logistics to improve the terminal operation by offering an easy tool to plan and follow the load/unload process, with efficient communication between all the actors involved, quick identification of delays and issues on the process.
- The average time of the process to assign resources and setup the unload process was reduced.
- The allocation of Fork Lift Trucks, important actors on process, was changed to a FIFO approach, automatically assigned by the application based on history and availability, helping on the optimal distribution of work, and leveling resources conveniently.
- With an automatic message being sent via radio to an on board computer at the Fork Lift Truck, the voice communication commands were reduced, as well as stress and misunderstandings.
- Automatic updates about the progress on the visual interface gave the planner a clear vision of occupation and current stage of the work on each and every location.
- Because QAT Global was able to provide the right skills and expertise for the job, there was a minimum amount of learning curve involved, and results were being produced almost immediately.

The product was delivered on time, with high stability, and has been used for almost 10 years with low maintenance effort, due to the smart and flexible way the solution was designed, allowing the user to define custom layouts for terminal areas, and life cycle for the unload process.

Need more information ?
Please visit our web site www.qat.com, or contact sales@qat.com