



## CASE STUDY

# FIORANOMQ POWERS WIRELESS MATRIX'S FIELD DATA ACQUISITION SOFTWARE

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**Dave Rathnow**  
Senior Development Manager  
Wireless Matrix

## CUSTOMER PROFILE

Wireless Matrix is a leading developer and provider of enterprise-class wireless data services for business-critical operations involving mobile workforces and remote assets. Wireless Matrix mobile and telemetry services are deployed in major corporate industrial markets including oil and gas, utilities, transportation and field service. The Company operates a multi-network wireless gateway service that interfaces to proprietary hosted or third party applications to provide end-to-end wireless information services to key enterprise markets.

## BUSINESS PROBLEM

Wireless Matrix's Field Data Acquisition software collects data from customer assets distributed over a wide geographic area. Some customers and market partners access the data after it is processed and stored at their central facility, while others need to have it delivered directly to their own facility where they perform their own processing. To provide this service, the company needed a technical solution that enabled sequential and parallel data distribution in a reliable and secure manner.

Wireless Matrix always understood that they could offer greater benefits to customers if they could send information more reliably and at a greater speed to the mobile workforce. Also, since Wireless Matrix's Mobile and telemetry services are deployed in major corporate industrial markets including oil and gas, transportation and field service it becomes all the more important to send information both reliably and quickly. "Wireless Matrix needed a solution that would allow us to move data through various paths, some sequential and some parallel in a reliable and secure manner," said Dave Rathnow, Senior Development Manager at Wireless Matrix. Again as Dave explained it is reliability that is the critical success factor for Wireless Matrix. "For example," Dave said, "An asset could be located in a field and might be using RF to send data to a central location or the asset could be located on the other side of the world and might be using a satellite radio to sent data." The business also required a solution that could easily integrate with other messaging middlewares.

## SOLUTION

FioranoMQ provided precisely the kind of messaging solution that Wireless Matrix needed. Fiorano's file-based data store delivers guaranteed messages significantly faster than any other JMS implementation, which was a key component of Wireless Matrix Field Data Acquisition infrastructure. In addition, Fiorano's highly configurable, multi-level security system adds Java REALMS support to improve security management by centralizing and combining user authentication sources. Another key feature was FioranoMQ's interoperability among different message queuing systems. FioranoMQ solves this problem by "bridging" FioranoMQ with IBM MQ Series, MSMQ, TIBCO Rendezvous and all other JMS providers' products by its 'FioranoMQ Bridge' technology. The FioranoMQ Bridge provides a set of standards based configurable services that allow message exchange between the FioranoMQ and other message queuing systems.

## **BENEFITS**

In tests conducted by Wireless Martix, FioranoMQ proved to be the fastest and most scalable JMS server for guaranteed message delivery. Since FioranoMQ also offers guaranteed delivery of data across multiple FioranoMQ servers over a WAN, it is possible to deploy reliable distributed systems that span geographically dispersed locations and can handle intermittent or long term network failures. "The FioranoMQ messaging system has yet to lose a message sent to it. The uptime of the server has been solid." said Dave Rathnow, Senior Development Manager at Wireless Matrix. Only FioranoMQ uses a Scalable Connection Management Module (SCM) to achieve scalability levels unmatched by any other JMS (Java Message Service) vendor. Using the pluggable Scalable Connection Management module, FioranoMQ can support more than 10,000 concurrent clients. FioranoMQ significantly increases development productivity, which enables businesses to market applications faster by isolating developers and applications from low-level network programming details like sockets and network addresses.

Above all, many industry partners and customers have appreciated Fiorano's proven customer support. As pointed out by Dave," Fiorano's technical support has been professional and reliable, which made FioranoMQ the logical choice."

## **ABOUT FIORANO SOFTWARE**

Fiorano Software ([www.fiorano.com](http://www.fiorano.com)) is a leading provider of enterprise class business process integration and messaging infrastructure technology. Fiorano's network-centric solutions set a new paradigm in ROI, performance, interoperability and scalability. Global leaders including Fortune 500 companies such as Boeing, British Telecom, Credit Agricole Titres, Lockheed Martin, NASA, POSCO, Qwest Communications, Schlumberger and Vodafone among others have used Fiorano technology to deploy their enterprise nervous systems.

To find out more about how Fiorano can help you meet your enterprise integration objectives, visit [www.fiorano.com](http://www.fiorano.com) or e-mail [sales@fiorano.com](mailto:sales@fiorano.com)