



# GE Oil and Gas - Field Vantage

## Well Site Asset Performance Management



### About GE Oil & Gas

GE provides industrial software, control systems, and embedded computing platforms that help connect, monitor, analyze, predict and optimize operations. GE's clientele necessitates scale and performance made possible by the elastic capacity of AWS's infrastructure.

#### THE CHALLENGE

Prior to leveraging AWS technologies, data collection and monitoring of oil field operations was rudimentary and difficult to scale.

The solution necessitated: 1) providing customers a collection and reporting platform to integrate completely with the on-site hardware and utilize all their features and functions, 2) speed to market in a competitive and highly adaptive industry and 3) data scalability - grew to over 20 TB within 48 months, monitoring over 1,000 oil-field devices

#### THE SOLUTION

GE partnered with Sequoyah Technologies to create Field Vantage. Field Vantage uses Linux and Windows EC2 instances in combination with MySQL on RDS, Route 53, Load Balancers and S3 storage to create DynaCards, providing periodic, accurate measurements of well equipment. This information is made readily reportable and allows GE's customers to manage and predict performance of the equipment, greatly improving operational effectiveness.

#### THE BENEFITS

##### Elastic Infrastructure

The elasticity of AWS allowed the infrastructure to scale without delays from procuring physical assets.

##### Expedited Decision Making

AWS's variable-expense structure eliminated the need for capital expenditure and lengthy approvals.

##### Solutions That Are Secure

Using AWS allowed for secure development and deployment of the application.

#### ABOUT SEQUOYAH TECHNOLOGIES AND AWS

Sequoyah Technologies is a software development firm that was founded in 1999 in Tulsa, OK. We focus on delivering and integrating applications for the Oil & Gas industry. We have a strong history of working with companies of all sizes, from startups to Fortune 100s.

Amazon Web Services provides a broad platform of secure, cost-effective, high-performance cloud services that help you collect, store, process, and analyze Big Data workloads.

#### NEXT STEPS

To learn more about how Sequoyah Technologies and AWS can help your business, visit [www.seqtek.com](http://www.seqtek.com)