



OILFIELD CHEMICAL COMPANY



Our customer is a privately-owned Oil and Gas service company. They provide industry-leading chemical solutions for all O&G industry needs. They also offer an extensive product portfolio for drilling, fracking, completion, and production chemical solutions. They operate their mobile trailer units with complete equipment installed on the trailer along with necessary chemical totes. In addition, they have a small data cabin on the trailer unit.

THE CHALLENGE

This service company desired to offer advanced solutions to their customers. They wanted to provide complete visibility into the operational data in real-time to their customers, many of whom are large operators, such as BP petroleum. The real-time access to operations data can enable engineers to remotely monitor the progress, and make any changes in the chemical mix, pressure, and flow rates.

Challenges:

- Customers/Operators need to make decisions when the job is in progress in real-time
- Mobile units in the remote areas do not have a high bandwidth Internet service
- Demonstrate advanced digital connectivity to overcome the competition

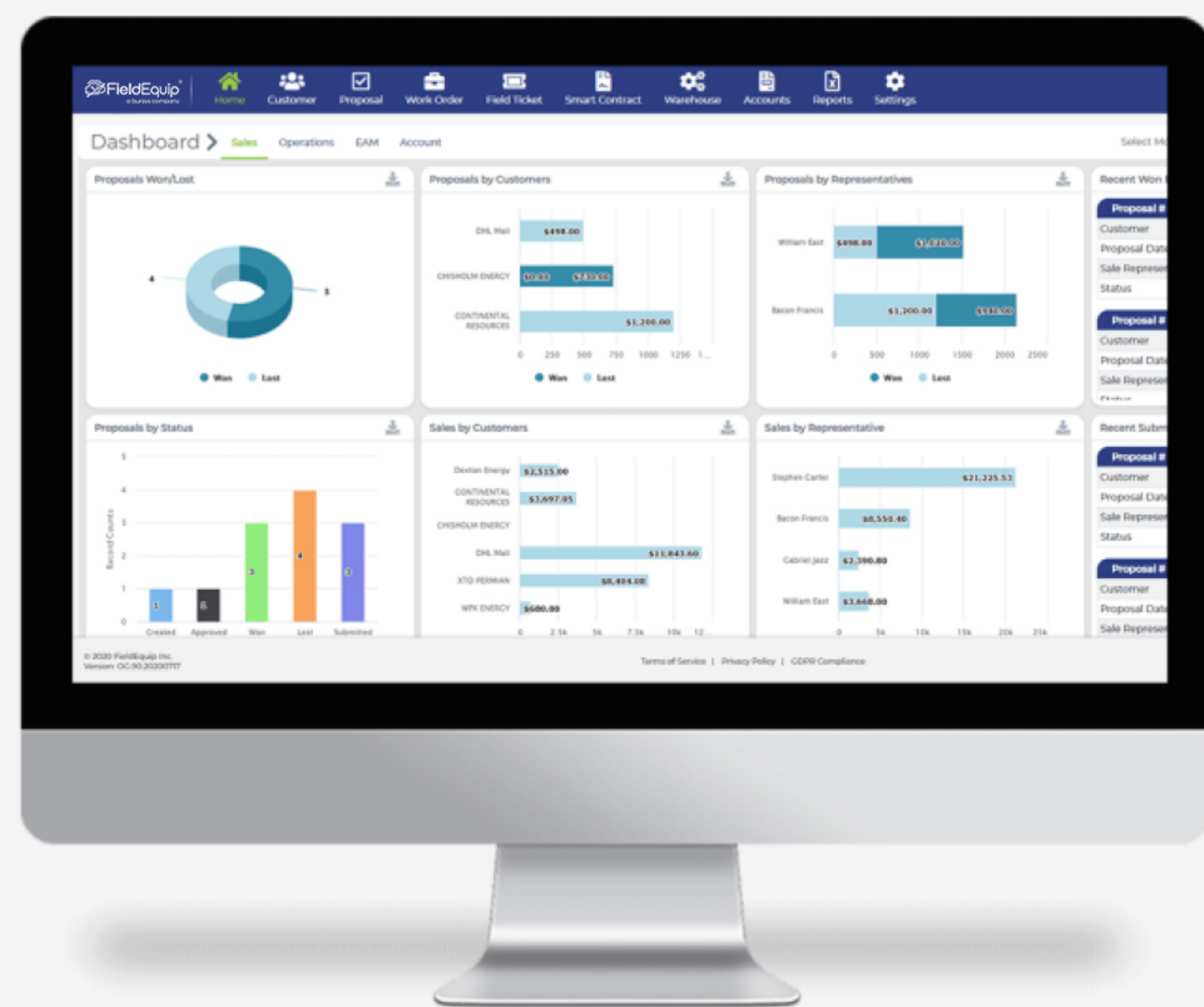
THE SOLUTION

Bursys IoT architects put together a solution, using our FieldEquip IoT Edge gateway, to connect their mobile batch mixing plant with AWS cloud through cellular gateway. Bursys software engineers developed interface to Emerson ROC 800L, Allen Bradley, etc. PLC's in the field. The gateway technology received all the data from the PLC's and converted it into light weight MQTT messages, sending them automatically to AWS IoT core.

FieldEquip Edge Gateway has the built-in technology to cache the data locally in case of connectivity failures and to automatically push the data from cache to AWS IoT core upon restoration of connectivity. The data is then automatically transmitted to FieldEquip intelligent analytics platform for ingestion, data visualization, and analytics. FieldEquip presents the data monitoring dashboards, alerts, and workflow automation through different channels, such as mobile app and portal applications, to the end users.

Delivery of a cutting-edge IoT solution at very little cost

Our solution is very scalable and requires a very simple configuration of FieldEquip Edge Gateway at site, which easily connects the unit with FieldEquip cloud platform. Our customer paid very little upfront cost to setup the FieldEquip platform and then a nominal monthly subscription cost for each unit. We delivered a world-class scalable solution that can handle terabytes of data flowing from the oil field and used this data for visualization, interpretation, and action in real-time.



Client Testimonial

“FieldEquip, a division of Bursys, is an extremely valuable tool and asset that gives both our operations team and our customer data that we can act on in real time. FieldEquip’s support team and management have been very responsive and helpful every step of the way.”

- CIO, Oilfield Chemical Company

THE CHALLENGE:

- Customers/Operators need to make decisions when the job is in progress in real-time
- Mobile units in the remote areas do not have a high bandwidth Internet service
- Demonstrate advanced digital connectivity to overcome the competition

THE SOLUTION:

- FieldEquip Equipment Monitoring Utilization
- IoT Enablement of Emerson, and Allen & Bradley PLCs
- Managed services for AWS cloud
- Near Real-Time Data flow to AWS Cloud

THE OUTCOME:

- Enabled connectivity to mobile chemical injection trailer units
- Real-time access to operational data on Cloud
- Mission critical, 99.9% available solution on AWS
- Low cost of ownership by utilizing FieldEquip edge gateway