

CASE STUDY

Driving Remote Asset Visibility and Reducing Field Costs with Ignition Edge & MQTT

Client Profile

A prominent oil and gas producer managing operations across remote and often challenging geographies.



Partnering with ITHENA and deploying Ignition Edge with MQTT has been a game-changer for our remote operations. We've drastically reduced our dependency on manual site visits, improved safety, and now have real-time visibility into our field assets like never before. It's helping us operate smarter, faster, and more proactively.

-Director of Field Operations

CHALLENGES

The client struggled with:

- Difficulty in monitoring geographically dispersed assets
- High travel costs and time-consuming manual site inspections
- Delayed response to equipment failures and production anomalies

SOLUTIONS

The client partnered with ITHENA and implemented an IIoT solution using Ignition Edge and MQTT:

1

Edge Data Acquisition

Installed Ignition Edge gateways at remote sites to collect and buffer critical asset data

2

Scalable Communication

Deployed MQTT to securely transmit data in real time from field assets to central control systems

3

Real-Time Alerts & Notifications

Delivered immediate alerts of any failures to field operators and maintenance teams

4

Predictive Maintenance

Enabled real-time monitoring of equipment, including all remote assets, for proactive maintenance



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OPPORTUNITY FOR IMPACT

35%

Reduction in travel costs

26%

Boost in asset uptime

30%

Faster issue resolution