

Water Plant Increases Data Update Rates by 10x with ZumLink™ IQ & Ignition Edge

A large water / wastewater facility was seeking to boost operational efficiency and lower costs by modernizing its existing SCADA system. The plant engaged an integrator that chose Inductive Automation's Ignition Edge MQTT software as the solution to rapidly upgrade the facility's poll-response architecture to one capable of exception reporting using a modern, bandwidth-efficient publish/subscribe architecture. With robust software selected, the plant needed a way to deploy Ignition Edge MQTT at the network edge, connected to a network for reliable data transmission. FreeWave's edge intelligent ZumLink™ IQ industrial radio was the obvious choice.

The Solution

Ignition Edge MQTT was deployed as the data polling architecture and placed on the ZumLink IQ radios. ZumLink IQ is a 900 MHz radio for wireless communication links that is also infused with FreeWave's IQ Application Environment. As a Linux-based operating system, IQ allowed the Ignition Edge software to be easily placed onto the ZumLink IQ radios, which resulted in:

- Exception reporting for **10-fold increase** in data update rates
- **Elimination** of polling servers
- **Elimination** of additional hardware (i.e., gateways)

The ROI

Using FreeWave and Inductive Automation's combined solution—the Ignition Edge MQTT Edition of ZumLink IQ—the water / wastewater facility was able to:

- **Save \$12,000** in gateway costs for the projects
- **Save \$7,200** annually by eliminating monthly fees for cellular service
- **Increase data visibility** without adding additional costly polling engines



Future-Proof. Industrial-Grade.

To learn more about how FreeWave provides a ruggedized edge computing platform to reliably deploy Inductive Automation's Ignition Edge MQTT—which instantly turns any field device into an IIoT-compatible asset—visit www.freewave.com/ignition-edge-edition.