Getting Smart Sensors to Market

Case Study

Texol

Taiwan Link Solutions Co - TEXOL (www.twnlsc.com) is a vibration monitoring solution provider focusing on vibration, acoustic sensors , analysis software, engineering integration services and signal analysis services for the full life cycle of machines and their components. Their solutions allow leading companies in consumer electronics, automobile, semiconductor, panel, metal processing and machinery industries to gain insights based on vibration data.

Problem

Texol were faced with the need for different communication requirements and customization of their software to fit different customer use cases. In addition, they realized a need to manage these devices, update firmware, integrate with third-party gateways & customer applications.

Texol was looking for a software vendor that could rapidly accommodate their need for multiple communication capabilities, device management & customized integrations to their customer ecosystems.
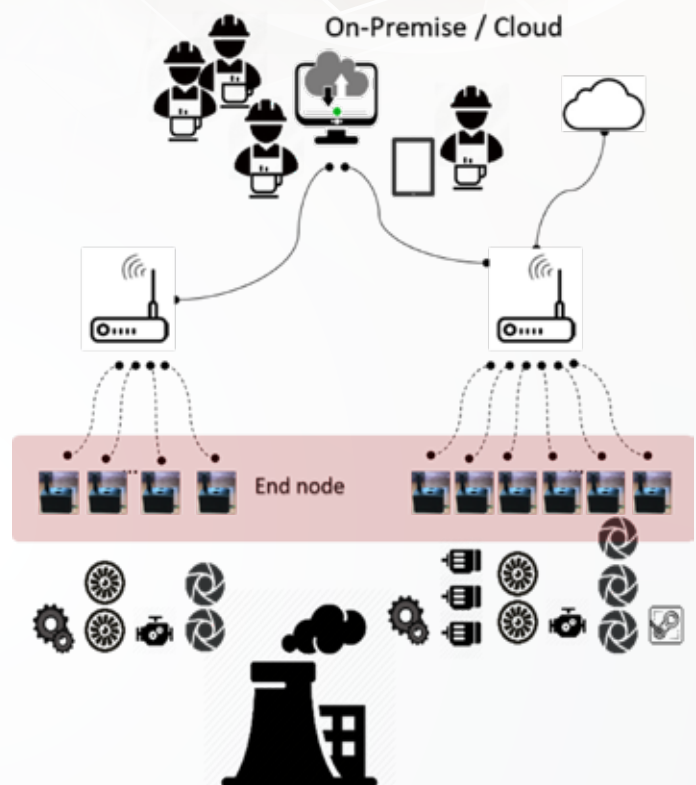

Solution

Altiux confidently resolved Texol's multiple communication & custom integration needs. BoxPwr's radio adaptation layer enables multiple communication protocols with minimal changes. This allowed Texol to future proof their investment and develop across a wide range of hardware platforms and communication protocols.

In addition to the sensor node development, Altiux also helped integrate third-party gateways to complete the communication path from the sensor to the user facing application. Altiux designed and architected the device management application and integrated the application with Texol's sophisticated analysis software.

Conclusion

Altiux's custom engineering services and BoxPwr IoT toolkit helped accelerate Texol's solution to market. IoT is promising but needs careful navigation of technical and business requirements in the context of the overall value generated. It requires an ecosystem of vendors to come together for a complete IoT solution.

Texol & Altiux Architecture – Case Study

BoxPwr™- IoT Toolkit

IoT Endpoints

- Application
- Radio and Device Management
- Security Customization
- Network Stack Integration
- Radio Adaptation Layer
- Core Embedded Framework

IoT Edge - Gateways

- Edge Analytics Frameworks
- Multi-Cloud Connectivity Framework
- Home Work Spaces
- Device Management
- MVIIF
- Security Customization
- Network Stack Integration
- Radio Adaptation Layer

IoT Fog

- Multi-Cloud Connectivity Integration
- Converged Device Management
- Edge Analytics Frameworks

IoT Cloud

- Applications
- Data Analytics

Texol's Vibration Sensors

altiux

Altiux Innovations is a software & product engineering services organization focused on helping you accelerate development of your IoT solutions and products. We provide specialized Engineering services across the entire IoT development cycle from consulting, device engineering, cloud and mobility application development, data analytics, and support & maintenance.

Altiux has developed an IoT Toolkit - BoxPwr™. BoxPwr is a production ready suite of software frameworks for sensor nodes & actuators, communication gateways, Edge computing & Cloud connectivity that helps accelerate IoT product & solution development.

At Altiux, we offer multiple models for commercial engagement that can be tailored to meet your specific needs.

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