AylaIQ for Foodservice: Diagnostic Plug-in Solution for the IoT

Easily IoT-enable Your Deployed Devices & Equipment

IoT isn’t just for new generation products coming hot off the manufacturing line and into the hands of your customers. Internet connectivity and the entire promise of IoT, from mobile control to data analytics, are also available for devices already active and installed in the field. These deployed, or brown-field, devices just need a way to connect to the cloud over Wi-Fi or cellular networks creating instant IoT enablement.

Like all things in IoT, the devil is always in the details but in this brownfield use case, Ayla has put together a retrofit solution called AylaIQ that is relatively seamless, easy to implement, and provides a clear path to IoT business value for foodservice enterprises in the shortest time.

The AylaIQ Solution

AylaIQ is a turnkey solution tailored for both product manufacturers and service enterprises to realize rapid time to IoT value from their deployed devices. The solution, which comes in a simple and easy to deploy dongle form integrated with Ayla’s cloud service and dashboard application, is designed for ubiquitous serial/diagnostic port communication standards (RS-232, Modbus) that are common across various types of residential and commercial equipment.

Unlike traditional ‘greenfield’ devices, with AylaIQ there are no long lead times to develop and connect. Additionally, there is no device level engineering effort needed – AylaIQ works out of the box, connects directly into the serial port on the wireless bridge and uses on-board Wi-Fi to stream device data to the cloud for analysis and insights on usage and performance.

Business Benefits of AylaIQ

Adding Internet connectivity to your existing fixed assets across stores including kitchen equipment, HVAC systems, and water & lighting systems opens the door to high-value endless digital transformation opportunities such as higher efficiency, cost savings, and growth. With device data

Overview

• AylaIQ is a turnkey solution tailored for both product manufacturers (such as kitchen OEMs) and service enterprises (quick service restaurants, fast casual restaurants) to realize rapid time to IoT value from their deployed devices.

• The solution provides device hardware, a cloud platform, a mobile platform, & a diagnostic application

Primary Use Cases

• Rapid recipe innovation & new offer testing through OTA updates

• Reduce equipment repair & maintenance expenses through device data analysis & failure detection

• Ensure high standard of food safety & quality controls

• Optimize energy consumption & costs across the store premises for a greener footprint

Benefits

• Improve topline growth & customer satisfaction

• Reduce costs related to energy consumption, repair & maintenance, and food waste

• Better adherence to food safety standards & reduced risk of fines & penalties
collected and stored in the cloud you can leverage a variety of advanced analytics tools and start to derive new descriptive or predictive business insights

AylaIQ Components

The AylaIQ solution is comprised of 3 interconnected components: Wireless Bridge Device, IoT Command Center, and Application Foundry.

Wireless Bridge Device

The Wireless Bridge Device is a micro-gateway running Ayla’s Device Agent and provides out of box Wi-Fi to RS-232/RS-485 MODBUS serial ports.

### DEVICE HARDWARE

- Serial (RS-485, RS-232) or USB support
- Wi-Fi (2.4ghz), NB-IoT, LTE-M
- 12 - 24v DC power supply
- Status LEDs

### DEVICE SOFTWARE

- Pre-integrated Ayla Secure Agent
- RS-485/RS-232 Modbus, custom protocol support
- Local schedules & data optimization rules
- Cloud configurable for any device type

How it Works

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About Us

Ayla Networks, a leading provider of edge connectivity, device management and application enablement for the Internet of Things (IoT), enables the world’s consumer device and commercial equipment companies to launch connected products across any sensor, device, and cloud. By leveraging the Ayla IoT™ platform, customers are able to quickly productize future-proofed, connected products, while making device data usable for ongoing analytic insights and delivering better business outcomes.

For more information, contact Ayla Networks at www.aylanetworks.com.