Water Treatment Use Case

Ayla enables manufacturers of water treatment systems to create cloud-connected versions of their products

The Challenge

Water softeners work by removing impurities—iron, minerals, animal waste, herbicides, pesticides, other chemicals—that water collects as it travels from its pure rain or snow form to where it enters a home. Once in place, the water treatment systems require periodic "recharging" with replacement filtering agents, a process that needs to be performed by authorized dealers.

Other than recharging, however, traditional water softeners have operated in an "out of sight, out of mind" manner. No one involved in water softeners—manufacturers, dealers, end users—have been able to monitor or control much about their operation.

The Ayla Solution

Ayla enables manufacturers of water treatment systems to create cloud-connected versions of their products that are part of the Internet of Things (IoT). The Ayla IoT Platform provides comprehensive device, cloud and mobile app connectivity. It allows water softener manufacturers to bring secure, reliable connected products to market quickly, easily, and cost-effectively.

Connected water softeners generate operational data—specific to each product's performance—that can be analyzed and used to:

- Improve end users' experiences using the products.
- Enable manufacturers to improve future versions of their water treatment products based on real-world knowledge of current products' performance.
- Offer value-added services, ranging from warranty to maintenance.
- Allow dealers and other service personnel to offer better maintenance and support to end users.

Benefits

Water softener manufacturers and dealers can:

- Monitor water softener products and usage at unlimited locations.
- Reprogram control parameters, update firmware, and fix software bugs using OTA updates.
- Set up custom text or email alerts.
- Diagnose issues remotely.
- Offer proactive service and support based on the real-world performance of the water softeners.

The Results

With Ayla, water softener manufacturers can bring products to market quicker by using its IoT platform rather than completing IoT development themselves. The connected water softeners "inherit" all the built-in advantages of the Ayla Platform, such as enterprise-class data privacy and security capabilities, including over-the-air (OTA) software updates.

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Users of the connected water softeners using Ayla IoT technology can use mobile or web-based management applications to:
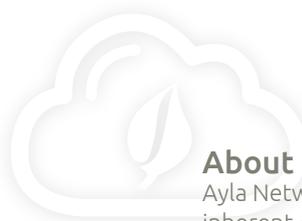
- Monitor daily water usage using an easy-to-read graph.
- See when it's time to recharge the water softening system, and schedule the recharging.
- Control their devices remotely.
- View alerts from the devices, using email and SMS.
- Adjust system setup through a web or mobile application.
- Locate support providers and contact them directly.
- Send messages to dealers or other maintenance personnel to notify them of issues.

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About Us

Ayla Networks empowers leading manufacturers by simplifying the inherent complexity of the Internet of Things (IoT), enabling them to turn their products into smart connected systems and transform their businesses to compete in the game-changing world of connectivity. Delivered as a cloud platform-as-a-service (PaaS), Ayla's IoT platform provides the flexibility and modularity to enable rapid changes to practically any type of device, cloud or app environment.

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