Ayla Networks

Lighting Use Case

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

The Challenge

Lighting is one of the major uses of electrical power on a daily basis around the world. Statistically speaking, between 20 and 50 percent of the total energy consumed in homes and offices is used for lighting. What most people don't realize is that over 90 percent of the lighting energy expense used for most buildings and homes is wasted due to over-illumination.

In addition, in commercial applications such as office buildings, it can often be difficult, without human involvement, to monitor which bulbs may be burned out and need replacement, causing an unbalanced lighting situation.

The Ayla Solution

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

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

- Monitor and adjust load to reduce demand during peak periods.
- Enable manufacturers to improve future versions of their lighting products based on real-world knowledge of current products' performance.
- Offer value-added services, ranging from warranty to maintenance.
- Monitor and alert on outages on lighting systems.

Benefits

Lighting manufacturers can:

- Monitor lighting systems and power usage across locations.
- Reprogram control parameters, update firmware, and fix software bugs using over-the-air updates.
- Set up custom text or email alerts for burned out fixtures.
- Diagnose issues remotely.
- Understand and specify the illumination requirements for a specific area.

The Results

By leveraging the Ayla Platform, lighting manufacturers are able to get their products to market quicker rather than completing IoT development themselves. The connected lighting solutions "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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- Reprogram control parameters, update firmware, and fix software bugs using OTA updates.
- Set up custom text or email alerts for burned out fixtures.
- Diagnose issues remotely.
- Understand and specify the individual illumination requirements for a specific area.

Users of the connected lighting systems using Ayla IoT technology can use mobile or web-based management applications to:

- Monitor lighting system energy usage using an easy-to-read graph.
- See when a fixture or bulb is burned out.
- Control their devices remotely.
- View alerts from the devices, using email and SMS.
- Implement automated time-of-day usage templates as to not expend unnecessary energy.
- Locate support providers and contact them directly.
- Send messages to dealers or other maintenance personnel to notify them of lighting outages.
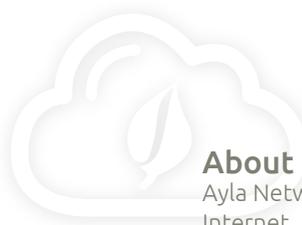
CONNECTED

BUSINESS

Lighting

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About Us

Ayla Networks is a leader in software and solutions that enable the Internet of Everything. Based on the premise that any device should be accessible from any location, the company has developed an end-to-end platform that allows any device to be managed remotely. Headquartered in Sunnyvale, Calif., the company has partnered with major electronics manufacturers, leading venture capital firms and investors who share this vision.

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