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BUSINESS

Access Controls

Security and Access Controls Use Case

Ayla enables manufacturers of security and access control systems to create cloud-connected versions of their products

The Challenge

While smart door locks are not an entirely new industry, the ubiquity of smartphones and low power communications protocols are creating a new opportunity to present a new user experience that is preferable to most when compared to the traditional lock and key approach that has been used for over 100 years. Smart security and access control can allow repairmen, houseguests, and friends to easily access one's property without needing a set of traditional keys.

However, power, continual access to the internet, and the overall security of connected devices can provide some consumers with concerns around connected door locks and access control devices.

The Ayla Solution

Ayla enables the manufacturers of connected door locks to create cloud-connected versions of their security and access control systems that are part of the Internet of Things (IoT). The Ayla IoT Platform provides comprehensive device, cloud and mobile app connectivity. It allows connected door lock manufacturers to bring secure, reliable connected products to market quickly and easily, in a cost effective manner, and supports multiple communication protocols allowing door lock manufacturers to choose the protocol which works best for their product.

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

- Monitor the frequency of usage for the device.
- Enable manufacturers to improve future versions of their security products based on real-world knowledge of current products' performance.
- Improve the end user's experience using the products.
- Monitor device energy usage and remaining power levels.

Benefits

Security and access controls manufacturers can:

- Monitor control systems and usage across locations.
- Reprogram control parameters, update firmware, and fix software using OTA updates.
- Set up custom alerts to notify users when connected locks are accessed.
- Diagnose issues remotely and integrate with other connected devices for a comprehensive connected experience.

The Results

By leveraging the Ayla Platform, security and access control manufacturers are able to get their products to market quicker rather than completing IoT development themselves. The connected security 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.

Connected door lock manufacturers can:

- Monitor control systems and usage across locations.
- Reprogram control parameters, update firmware, and fix software bugs using OTA updates.
- Set up custom text or email alerts to notify users when connected locks are accessed.
- Diagnose issues remotely. Integrate with other connected devices such as lighting and HVAC for a comprehensive connected experience.

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

- Grant temporary access to a property with a single use access code.
- See when the door lock was accessed.
- Monitor battery level within the device and receive alerts when batteries must be changed.
- View alerts from the devices, using email and SMS.
- Locate support providers and contact them directly.
- Send messages to dealers or other maintenance personnel to notify them of outages.

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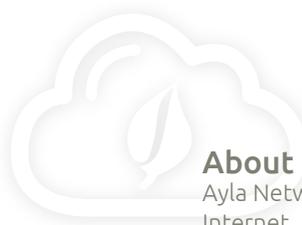
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About Us

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.