



Overview

With 30 million laying hens and the largest layer hatchery facility in Mexico, the company is one of the biggest egg producers in the world. In order to maintain high efficiency egg production, the plant is fully automated with a modern inline egg grading and packing facility. Owing to the size of the production plant, wireless networking is used to connect the poultry houses, production lines and warehouses.

Large amounts of real-time data are transmitted through the wireless network and many of the systems are managed seamlessly through the network, however, the existing wireless broadband network does not live up to expectations. Poor connections, high latency and limited signal coverage have decreased the overall efficiency.

In order to improve the situation, the company has appointed Alfa2mil9, the leading distributor in Latin America to resolve the issues. Partnering with Pentagrupa (a local system integrator), Alfa2mil9 proposed Altai's Super WiFi Solution to replace the existing Ruckus/ Meraki wireless network.

The Altai Super WiFi Solution was chosen by the company due to its super long range, low latency and superior performance. The new network has provided very stable and high performance wireless connectivity resulting in greatly enhanced production efficiency.

Customer Name:

One of the biggest egg producers in the world
Alfa2mil9 (distributor)
Pentagrupa (system integrator)

Deployment Location:

Close to San Juan de los lagos, Mexico

Application:

Wireless Farm Management System

Products used:

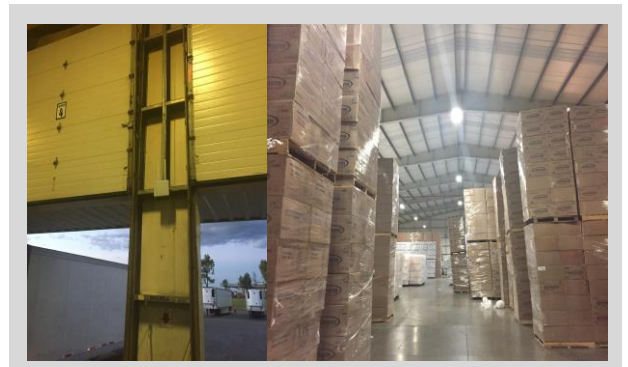
Altai A8n and A2

Result:

The Altai Super WiFi Solution was deployed to replace the existing Ruckus/Meraki network. The new wireless network covers both indoor and outdoor areas including poultry houses, layer hatchery facility, packing station and the open areas. All the facilities are now managed through the new wireless network without any network downtime or interruption.

The Challenge

- Large area coverage including indoor and open areas
- Challenging indoor environments with moving trucks, forklifts and metallic racks which can affect Wi-Fi signals and network coverage
- Reliable and always available connectivity is critical



The Solution

In order to provide full coverage in the open areas, Altai A8n base stations were installed on the rooftops of buildings to provide Wi-Fi coverage over long distances. The multiple antennas of the A8n can be configured to provide coverage that is optimized for a given area in both pattern and elevation. Its multi-beam antennas can provide up to 3 times the range and 10 times the per site coverage as standard access points.

For relatively smaller coverage such as the indoor areas of the poultry houses, warehouses and packing stations, the Altai A2 access point provides a cost-effective solution for creating simple and efficient 1 to 3 master-slave cluster systems.

The Result

The Altai Super WiFi network provides a stable and high performance wireless network for the wireless farm management system. Applications like a wireless sensor network, truck weighing, goods tracking, wireless surveillance system can now be fully operated without worrying about the stability of wireless network.

About Altai

Altai Technologies is a leading supplier of carrier-grade Wi-Fi products and technologies with a distribution network reaching 100 countries. Altai Super WiFi is the leading solution for vertical industrial markets, covering over 180 terminal ports and airports globally.

The Altai Super WiFi Solution includes a complete portfolio of indoor and outdoor products for carriers, WISPs, and enterprises to support a wide range of applications such as mobile data off load, public access, WLAN access, and backhaul.

Utilizing patented smart antenna technology, as well as a cloud-based management system called AltaiCare, the Altai Super WiFi Solution is designed from the ground up to deliver Wi-Fi networks that have unprecedented performance, reliability, scalability, and manageability.

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