



Overview

The general mindset of IoT solution is mostly built with different LPWAN technologies. However, Altai's patented smart antenna technology has made it possible to use standard Wi-Fi protocol (2.4GHz and 5.8GHz) to enable different IoT and smart applications in large area with much higher throughput.

Recently, the complete IoT solution has been adopted in farming industry for the first time in western Australia with the connectivity solution provided by Altai and its partner in Australia, Powertec. The solution was deployed in a Western Australian agricultural training facility, which planned to renew and upgrade the facilities. Powertec adopted Altai's products with the smart antenna technology because of its absolute advantage of large area coverage. In addition, Altai's APs are compatible for various power supply systems including solar or wind power sources, which makes them having a definite advantage for the scenario as the farm is mainly powered by solar energy. Altai's solution has enabled different IoT applications, surveillance cameras and access coverage for mobile users in the institute.

With Altai Super WiFi, the whole farm including its various facilities and systems are now under a central management system which has largely improved the farm's operation efficiency.

Customer Name:

A agricultural training Institute in western Australia
Powertec (Distributor)

Deployment Location:

Australia

Application:

System Management

Products used:

A8n, C1an and C1xan

Result:

Previously, different areas of a farm had to work with different vendors for each of the job divisions, which made it difficult to have any sort of centralized management. With Altai Super WiFi, the farm can now centralize the management functions of various units into one single platform for more efficient operation.

The Challenge

- Wide area coverage with the facilities scattering around the farm
- High capacity and low latency network
- Scalable and cost-effective solution

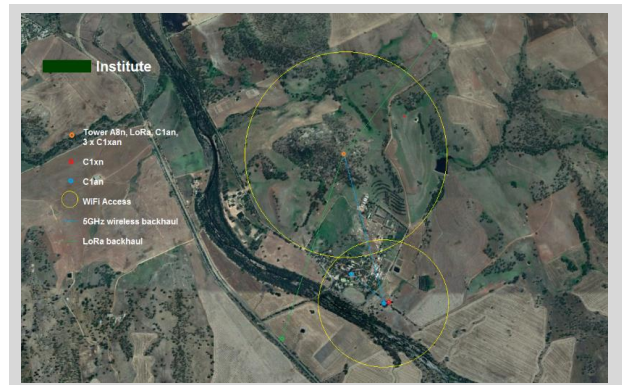


The Solution

A mix of Altai's indoor and outdoor products were adopted in the deployment. A8n was installed on the tower to serve for large area coverage with support of C1an and C1xan in the outer area to form a complete network coverage.

The Result

Previously, different units within a farm setting had to work with different vendors for each of the job divisions such as crop and soil conditioning, water management and security etc., which made it difficult to have any sort of centralized management. With the IoT solution and an uncompromised wireless network in place, the farm can now centralize the management functions of various areas into one single platform for more efficient operation. In addition, the seamless Wi-Fi service is provided at the premises for both students and staff.



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 200 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 WiFi networks that have unprecedented performance, reliability, scalability, and manageability.

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