



Overview

The need for high speed internet for regional agricultural based business is critical, not only for the running of the property but also for use of residents, family and staff, from social to educational purposes. Just some of the vast range of digital technologies already in use within Australia including online education, tracking devices, remote management, monitoring of machinery/livestock, security cameras, management of websites etc.

This Homestead is well known to those in the industry as a top flight breeder of Bulls specializing in artificial breeding.

Previously the only internet available on the property apart from patchy mobile coverage, was via a cellular router connected back to the main homestead via a low end point to point bridge. This solution was both expensive and unreliable. A dwelling on the property was deemed suitable for the National Broadband Network ("NBN") fixed wireless service. The bull breeder invited AETV Systems, a leading system integrator in the region to further extend the NBN signal to the farm.

After the site survey, the solution required a combination of fixed wireless, wireless bridges, solar powered poles and long range Wi-Fi access points. Utilizing the patented Altai Super WiFi Solution, all buildings on the property are now linked via a high speed, low latency Wi-Fi network and enjoy the benefits of the NBN fixed wireless service.

Customer Name:

A famous bull breeding farm in Australia
AETV Systems (system Integrator)
Powertec Telecommunications
(distributor)

Deployment Location:

80 km southwest of Brisbane, Beaudesert region, Australia

Application:

Cost-effective Wi-Fi services for the farm's management, staff and guests

Products used:

Altai C1xan, C1an and C1n

Result:

The Wi-Fi network provides ground coverage in and around the homestead, office, labs and sale yards. This cost-effective Wi-Fi solution has significantly reduced the monthly cellular data charge and enabled smart farm applications such as tracking devices, remote management, monitoring of machinery/livestock, security cameras etc to be utilized.

The Challenge

- The NBN access is 4 km away from where the internet is required
- Lack of electricity supply to the NBN access position
- Large area coverage including both indoor and outdoor areas



The Solution

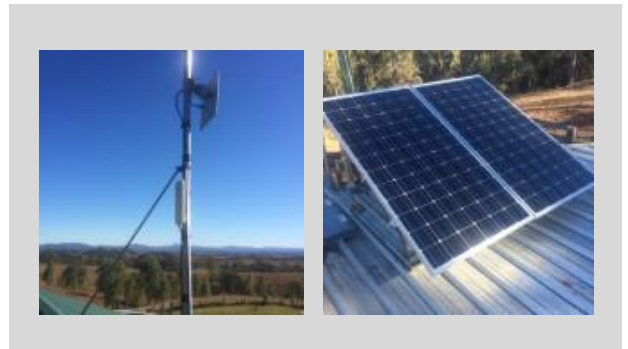
The solution is a combination of fixed wireless, wireless bridges, solar powered poles and long range Wi-Fi access points. The installation was designed and coordinated by AETV Systems in conjunction with Powertec engineers.

Special allowances were made for 2 x solar 10 m powered poles with sufficient battery backup to operate for a number of days without sunshine. The incumbent cellular router is on standby in the event of an outage with the NBN or any of the relay points relying on solar/battery.

C1xan's are used for long distance bridges while C1n's are used for short distance bridges. Besides, C1n's are deployed for long range Wi-Fi access. The installation was completed in 3 days.

The Result

The Wi-Fi network provides ground coverage in and around the homestead, office, labs and sale yards. All buildings on the property are now linked via a high speed, low latency wireless network and enjoy the benefits of the NBN fixed wireless service. The farm owner is no longer receiving huge monthly cellular data charges for unreliable internet access. Further locations and access can be added at any time.



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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