



## Overview

Communication system is a critical key in all kinds of mining project. However, the harsh and everchanging environment is one of the largest hiccups for deployment and proper operation of communication systems.

For the reason, one of the largest mining company and the leading coal producer in Indonesia, PT Indo Tambangraya Megah Tbk (ITM), has chosen Altai Super WiFi to build a network for their project in East Kalimantan of Indonesia. ITM is aware of Altai's remarkable Super WiFi technology; a single Altai AP can provide coverage up to 1.5 km with strong and stable signals.

After detailed site survey performed by Altai and its local partner in Indonesia, PT.Wahana Piranti Teknologi, a solution was designed using Altai's flagship A8-Ein, A2e and A2. With Altai's technology, less devices were required comparing to usual mining projects. The deployment process was completed in a highly efficient and professional manner.

Once the WiFi network is available, the whole mining site is under its coverage and the communication systems have been enabled. It has greatly enhanced the operation of the mining site, but also improved the workers' safety at work as the WiFi network ensures a stable communication.

### Customer Name:

PT Indo Tambangraya Megah Tbk (ITM)  
Wahana Piranti Teknologi (Distributor)

### Deployment Location:

Melak, East Kalimantan, Indonesia

### Application:

WiFi network for mobile operational and CCTV link

### Products used:

A8-Ein, A2e, A2

### Result:

The WiFi network has greatly enhanced the operation of the mining site, but also improved the workers' safety at work as it ensures a reliable communication.

ITM was amazed by the fact that **the signal is stable when the mobile device is 1,5km far from the AP.**

## The Challenge

- Large area coverage
- Harsh and everchanging environment



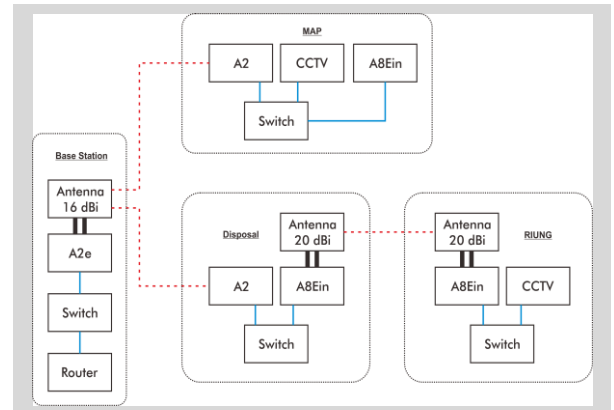
## The Solution

A2e was mounted 80 meters on cellular tower for PTMP solution from Mining Base Station to the Site with a distance ~9 – 10 km. A2 was mounted 6 meters on mobile tower and to support the PTMP connection and CCTV link, while A8-Ein has been used for user access in one Mobile Tower. The solution also includes AltaiCare for access & network management

## The Result

ITM was amazed by the fact that the signal is strong and stable when the mobile device is 1,5 km far from the AP.

The WiFi network has totally fostered the operation and communication among the mining site.



## 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.

## Contact Us

Headquarters  
Unit 209, 2/F, Lakeside 2, 10 Science Park  
West Avenue, HK Science Park, Shatin,  
Hong Kong

Phone: +852 3758 6000  
Fax: +852 2607 4021  
Email: [info@altaitechnologies.com](mailto:info@altaitechnologies.com)

[www.altaittechnologies.com](http://www.altaittechnologies.com)