



Overview

In recent years, Altai's solutions have been recognized by the mining industry, and one of the notable projects is a recent deployment in the Sabinas Mine of Mexico. The deployment was a collaboration with Altai's mining partner in Mexico, LASEC, which is specialized in providing telecommunication solutions for mines.

The Sabinas Mine, located in Central Mexico, is operated by Industrias Peñoles and mainly produces silver, lead and zinc. The major challenges of deployment for the site were the tough environment in the underground mine and the stringent requirement of reliable wireless links, as reliable wireless links are critical for the mine operator to connect with their devices and to track the miners in daily operation.

Given such environment constraints, Industrias Peñoles had spent some time to identify a qualified network provider, until they reached Altai's partner, LASEC. LASEC proposed a solution with Altai Super WiFi, which is remarkable for robust and large area coverage, in addition to simple wiring process since smaller number of devices are needed with Altai even for underground comparing with other competitors. The proposal was finally selected by Industrias Peñoles and the result has satisfied the mining company.

Combining with LASEC's Smartflow and LALoT system, Altai has connected the underground mine to its control room. The change brought by Altai has greatly facilitated their operations and management for digital transformation.

Customer Name:

Industrias Peñoles
LASEC (System Integrator)

Deployment Location:

Sabinas Mine, Mexico

Application:

Private WiFi coverage for mining operations

Products used:

A3-Ei, AltaiCare On-Premise

Result:

Combining with LASEC's LALoT system, the whole area of the underground mine has been linked up and connected to the control room. Altai Super WiFi network has realized real time communication for the underground mine and highly facilitated the overall operations and management for digital transformation.

The Challenge

- Harsh and stringent environment
- Large **underground** area coverage
- No suitable site for mounting and cabling



The Solution

55 A3-Ei units have been deployed in the mine to connect LASEC's LAIoT with its Smartflow platform. The whole system is used to manage the overall underground condition of the mine in order to facilitate the mining operations and detect workers' location. With Altai's WiFi network, the data collected by the sensors could be transmitted to the control room in real time. AltaiCare On-Premises has been installed as the network management system.

The Result

55 units of Altai's A3-Ei and AltaiCare On-Premise have been deployed for Sabinas Mine to connect with LASEC's LAIoT system. The deployment process was completed in a quick but professional manner. Altai's patented technology has linked up the underground mine and made the whole area stayed connected. Altai has realized reliable real time communication for the underground mine and highly facilitated their data management for digital transformation in the mining industry.

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

www.altaittechnologies.com