Background

International trade has grown rapidly over recent decades and transport volumes have expanded accordingly. Technological improvements, such as containerization, have profound impact on production and consumption. Apart from air transport, other mode of transport such as road, rail, sea helps to facilitate trade activities and ensure efficient, cost-effective goods delivery.

Challenges

It is important for goods to be delivered on time and in good condition. However, the long distance over land or sea will risk the goods of being damaged or stolen. Deliberate, destructive interventions such as terrorist attacks and threats, or unanticipated events such as traffic accidents, broken of containers, or even natural disasters can also affect goods delivery. Loss may incur if goods are lost or damaged when transported.

Total Solution for Wireless Tracking

Altai's wireless tracking solution enables shippers to monitor their goods' movement and conditions from the source to destination. Shippers can set its own configurable parametric alarms to alert and notify in real-time of important events on a cloud-based platform via any connected devices like laptop, tablet.

Altai offers multiple-mode communications and fail-over to ensure connectivity at all times so that the wireless tag on the cargo or container can send real-time data to cloud-based server.

Land Transport

On land, Altai set up access points along railways and roads to connect the wireless tag on cargo or container to update its status to server.

Sea Transport

On sea, traditional terrestrial backhaul is not available except satellite backhaul. Combining the satellite backhaul with Altai Super WiFi, the containers still can stay connected for remote tracking and monitoring even they are on the sailing vessel.
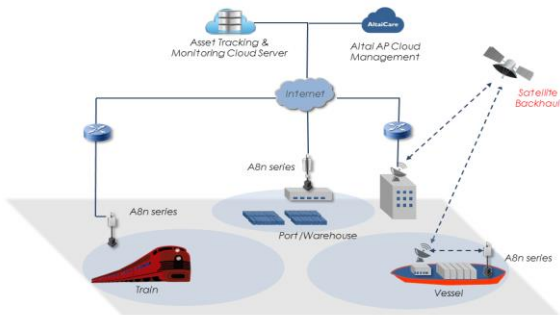
Port

Despite the challenging environments, the Altai Super WiFi solution is able to provide high performance, stable wireless access in port. The superior coverage of Altai Super WiFi base stations allows the wireless tags on the vehicles to get wireless access even when they are miles away from the port. Shippers can be alerted earlier that the goods are arrived.

Zero Configuration Cloud-based Management

Designed for simplicity and ease of use, AltaiCare, a cloud-based network management solution, provides a simple, secure, and cost-effective way to manage their WiFi networks.

Conclusion

The Altai wireless tracking & monitoring solution provides updated and real-time information for round-the-clock operations. This new solution will greatly enhance the efficiencies of the logistics industry and reduce loss and damage during the shipping process. Data collected can also be used for analysis, formulating new strategies.

Altai at a Glance

- Founded in 2006 with headquarters in Hong Kong
- With deployments in 100 countries, 180 terminal ports and airports globally
- Patented smart antenna technology enabling 10X better coverage & capacity than standard AP

- Complete portfolio of indoor & outdoor products as well as cloud-based management system for carriers, WISPs , industries and enterprises
- Main market applications are mobile data offload, wireless broadband, WLAN access in private networks, and wireless backhaul