Overview

Djibouti is strategically located near some of the world's busiest shipping lanes, controlling access to the Red Sea and Indian Ocean. It serves as a key refueling and transshipment center and is the principal maritime port for imports from and exports to neighboring Ethiopia. With such a significant role in the marine business, the Port of Doraleh and its relevant facilities must be equipped with the best operation system. For the reason, Altai Super WiFi has been recommended, by Altai's regional system integrator E to E FZE, to provide the network coverage that supports the daily operations of the port. E To E FZE is Altai's preferred partner in Eastern Africa region and they have extensive experience with similar previous implementations to help port operators achieve their goals.

After series of rigorous trial, Altai's flagship base station, A8 series have been adopted to deploy at Doraleh Container Terminal (DCT) and provide full coverage needed for its operations. Being the main terminal at the Port of Doraleh and the largest source of revenue for Djibouti, DCT can tolerate no network downtime and the deployed equipment must be of the best quality. Given the stringent requirements and challenging environment of a container port with heavy traffic, Altai does not only fulfill DCT's requirements and even surpass its expectations. With the patented smart antenna technology, Altai's Wi-Fi basestation is able to provide robust wireless coverage for a distance as far as 1.7km (LOS). Equipped with Altai's A8n and A8-Ein, the management and operation efficiency of the terminal are not only secured but also fully enhanced.

Customer Name:
Doraleh Container Terminal (DCT)

Regional System Integrator:
E to E FZE

Deployment Location:
Djibouti

Application:
Wireless network for containers management and operations

Products used:
A8n, A8-Ein, Altai Access Controller

Result:
Equipped with Altai's A8n and A8-Ein, a reliable and robust wireless coverage is 24/7 available for DCT. As a result, the management and operation efficiency of the terminal are not only secured but also fully enhanced.

The Challenge

- Large area outdoor coverage with stacks of metallic containers densely surrounding the environment (metal is obstacle for WiFi signals)
- Limited sites for equipment installation
- 24 x 7 uninterrupted service
- Large number of devices sharing the network

The Solution

Given the challenging environment of container ports, e.g. surrounded by stacks of containers and stringent requirements on signal strength, stability etc., standard access point might not be able to satisfy these needs. However, with the unique smart antenna technology, Altai's products can still perform best in harsh environments. In the project, Altai's A8n and A8-Ein have been deployed to provide the network coverage for the terminal and related office areas, with Altai's access controller as the network management system.

The Result

Altai Super WiFi has realized real-time and remote central management for the heavy-traffic terminal. With Altai's solution, DCT staff in the control room can remotely locate and manage data of any container at the terminal; which has greatly fostered daily operations and brought significant improvement in terms of operation efficiency. Currently, DCT's management team is in discussion with Altai to expand the wireless network to their office in order to further facilitate the running of business.

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 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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