



Overview

The Port of Dakar is a deep-water port with heavy traffic at the crossroads of the main sea routes along the West African coast. It has a strategic location at the intersection of the routes linking Europe to South America, and North America to South Africa.

In order to cope with the ever-increasing traffic, the port needs a reliable wireless network which can cover a large area with strong signal strength and zero down time. Given also the complex port environment, there are very limited sites suitable for installation. Based on proven track record with all the leading port operators, the Port of Dakar therefore has selected Altai Super WiFi Solution as the broadband wireless connectivity provider to upgrade their communication system at the port. In the project, Altai has worked with its regional partner, Sonatel, a leading telecom service provider that is mainly owned by Orange S.A. and based in Senegal, to provide full wireless coverage for the Mole 2 terminal of the port, which is a Ro-Ro terminal handling the logistics operations of "Ro-Ro" ships which are primarily used for the transport of vehicles.

With Altai's unique smart antenna technology, Altai's flagship A8n Wi-Fi Base Stations have been installed to provide a full coverage for the terminal. The network provided by Altai is stable, robust and cost effective. With Altai Super WiFi's solution in place, the terminal's operation has never been so smooth and efficient.

Customer Name:

The Port of Dakar
Sonatel Business Solutions (Regional Partner)

Deployment Location:

Dakar, Senegal

Application:

Private broadband wireless connectivity for port operations

Products used:

A8n, AltaiCare

Result:

Only 7 units of A8n are able to provide a full coverage for the Ro-Ro terminal with excellent performance. The solution by Altai Super WiFi has not only overcome the issue of limited sites available for installation but also reduced the total cost of ownership.

The Challenge

- Large area coverage
- Complex environment
- Very limited sites for installation



The Solution

Equipped with Altai's patented smart antenna, a single base station of A8 series can cover a much larger area than any standard Wi-Fi AP. Only seven (7) units of A8n Wi-Fi Base Stations (with AltaiCare for network management) have been installed but the radio performance is excellent at every corner of the terminal without any blind spot. The small number of devices required has overcome the issue of limited sites for installation and also reduced the total cost of ownership.



A8n



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 container ports, manufacturing plants and warehouses 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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