



Overview

Located on the North Sea, just one and a half hours' sailing time from the world's busiest seaway (600 ships every day), the Port of Dunkirk, or officially known as Terminal des Flandres, offers excellent accessibility to shipping and large land reserves.

To keep up with the digitalization trend and port automation, the Port of Dunkirk has selected Altai as the wireless infrastructure vendor to provide a wireless network to facilitate the Port's operation. Based on the impressive track record of Altai's smart antenna technology being able to provide outstanding long-range coverage in the challenging environment of container ports, the port management team was confident that Altai Super WiFi Solution was what they need to support the ongoing development of Dunkirk Port.

In the solution provided to the Port, Altai's flagship A8n Wi-Fi base station and A2 WiFi AP have been deployed on the light towers. Thanks to the smart antenna technology, Altai's solution requires much smaller number of AP than any of its competitors and the resulting Wi-Fi network has greatly improved the management and operation efficiency of the port.

Customer Name:

Port of Dunkirk
Axians (System Integrator)

Deployment Location:

Dunkirk, France

Application:

Private broadband wireless connectivity for port operations

Products used:

A8n, A2, AltaiGate 200

Result:

Though number of devices needed in Altai's solution is much less than any of its competitor, the connectivity provided by Altai Super WiFi is robust and reliable even for the heavy traffic of the Port of Dunkirk. The management and operation efficiency of the port have now been greatly improved with Altai's Wi-Fi network in place.

The Challenge

- Large coverage area required
- Complicated environment surrounded by stacks of containers
- Network shared by large number of data demanding clients
- Lack of installation sites



The Solution

The solution has adopted Altai's flagship A8n base station, which is able to cover as far as 1km LOS with only one single unit, for access coverage needed in the yard area, and A2 with sectorial antenna for vessels' coverage. While Altai's unique technology has reduced the number of APs needed comparing with other WiFi solutions, it has also resolved the issue of limited installation sites. As a result, all Altai's APs have been installed on light towers.

For network management, AltaiGate 200 has been used to support the network.



A8n



A2



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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