



## Overview

Located on Grand Bahama Island, the Freeport Container Port ("FCP") is ideally located to meet all trade demands to become the transshipment hub of the Americas. The terminal operates a sophisticated computerized 24-hour facility with state-of-the-art security. It offers comprehensive support services and leading edge technology to the world's largest container vessels.

The FCP management team has seen an upsurge in demand for higher bandwidth from different port applications, therefore it took the decision to strengthen its' wireless connectivity using a new and more advanced Wi-Fi solution. The FCP has appointed Rapid Access Solutions to design and build the new wireless network for the terminal port. Rapid Access Solutions selected Altai Super WiFi, and conducted an extensive field trial based on a stringent testing and acceptance plan.

The major limitation that FCP faced for wireless connectivity was high interference and signal blockage. With the Altai Super WiFi Solution, its super interference immunity and smart antenna technologies overcome the signal blocking environments.

**Customer Name:**

Freeport Container Port  
Rapid Access Solutions Inc  
(System integrator)

**Deployment Location:**

Grand Bahama Island, Bahamas

**Application:**

Private Wi-Fi network

**Products used:**

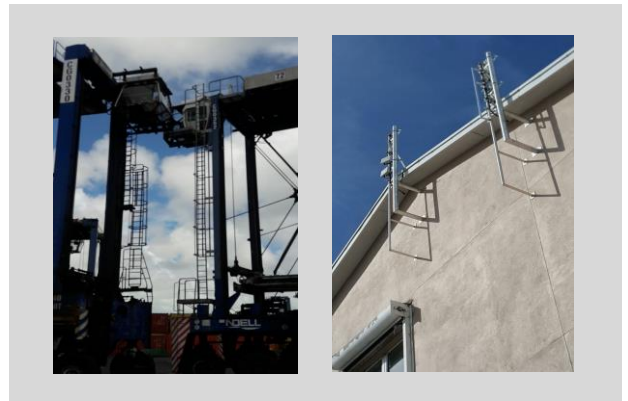
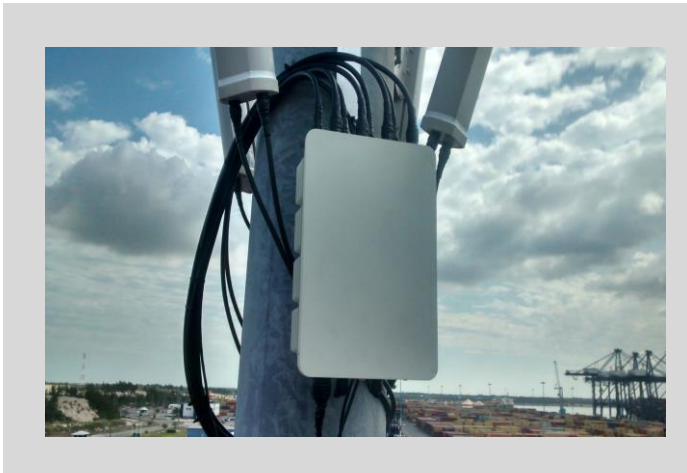
Altai A8n, A2, C1n series and AWMS

**Result:**

The port efficiency has been greatly increased as the FCP on-site workers can now transmit data directly to the Control Room via the wireless network.

## The Challenge

- High interference and signal blocking environments
- Stable and robust network to cover the whole container port
- Zero downtime to ensure round-the-clock operation



## The Solution

Extremely harsh RF environments such as container ports requires smart antenna technologies such as A8n Super WiFi Base Stations. The A8ns' are installed on light poles to provide large area outdoor Wi-Fi coverage while A2s' are used as bridge.

Owing to the coverage size, C1ns' and C1xns' are installed in the cranes and straddle carriers to extend the Wi-Fi signal from A8ns' to these areas.

The Altai Wireless Management System ("AWMS") connects all the access points, it enables the network operator to manage and monitor the network easily.

## The Result

With the Altai Super WiFi network, FCP can easily connect all the on-site applications with the Control Room. The scalable network design allows for additional features to be quickly and easily added in the future.

### 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

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