



Overview

Malaysian Marine and Heavy Engineering Sdn. Bhd. (MMHE), a subsidiary of MISC Berhad, is a leading global provider of engineering solutions for a wide range of offshore & onshore facilities and vessels. The firm maintains an unparalleled reputation for quality and efficiency in large part due to their commitment to leveraging state-of-the-art technology and world-class facilities. And, as MMHE began embracing “Industry 4.0” standards, the management team recognized the critical role a reliable and robust wireless network with exceptional coverage would play in maintaining their industry leader position. After evaluation of several options, the decision was made to install Altai Technologies Super WiFi technology at their most strategic engineering and construction facility.

This particular facility – West Yard of MMHE’s phase 1 – covers 372 acres including 1.8Km of seafront. The area presents tremendous challenges for RF signals with numerous heavy metal structures creating interference and impeding line-of-sight. In addition, space for laying backhaul and power cables was limited – a critical requirement for most Wi-Fi vendors. These obstacles proved to be important factors in MMHE’s decision to choose Altai due to the ability of its advanced interference mitigation and smart antenna technology to overcome these problems. Altai’s local partner Aglotel installed the solution in partnership with Telekom Malaysia resulting in a successful deployment and a satisfied customer.

Customer Name:

Malaysian Marine and Heavy Engineering Sdn. Bhd. (MMHE)
Aglotel (System Integrator)

Deployment Location:

Malaysia

Application:

Wireless network to support engineering and construction yard operation

Products used:

A3-Ei

Result:

The entire West Yard facility is now enjoying strong Wi-Fi coverage delivered by Altai Technologies Super WiFi solution. The customer reports zero downtime, blanket coverage and strong data throughput.

The Challenge

- Large outdoor coverage area
- Limited sites for equipment and backhaul
- A dynamic physical environment affecting Wi-Fi signal coverage stability
- A large number of active clients



The Solution

The project covered a total of 560,000sqm with redundant Wi-Fi coverage between APs and support of seamless roaming. With the Altai Super WiFi Smart Antenna technology, only 4 A3-Ei units were needed to give full Wi-Fi coverage for the entire facility with 100% seamless network roaming to support the required applications.

The Result

The whole West Yard area of MMHE is now covered by 4 units of Altai's A3-Ei. Altai's technology and outstanding performance has ensured a smooth and efficient operation while meeting MMHE's wireless connectivity objectives as part of their migration to "Industry 4.0". MMHE was particularly pleased with the comparatively low number of access points, which resulted in an installation timeline of less than 2 weeks.



A3-Ei

About Altai

Altai Technologies is a leading supplier of carrier-grade Wi-Fi products and technologies with a distribution network reaching 100 countries. Altai's Super WiFi is the leading solution for the heavy industrial vertical with deployments in mining, aviation, manufacturing, warehousing, power generation, oil & gas and over 200 container ports and airports globally.

The Altai Super WiFi Solution includes a complete portfolio of indoor and outdoor products for carriers, WISPs, and enterprises supporting public wireless access, WLAN solutions, backhaul and mobile data off load.

Altai's product line is designed from the ground up to deliver industrial-grade Wi-Fi networks with unparalleled performance. Altai's patented smart antenna technology, interference mitigation and advanced throughput optimization software, along with its cloud-based management platform is what sets it apart with unparalleled range and ability to address the most challenging environments.

Contact Us

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