



Overview

Siu Ho Wan Water Treatment Works is a key component of the permanent system to supply water to the Hong Kong International Airport, the residential developments at Tung Chung, Tai Ho etc. As the rapid growth of population, Siu Ho Wan Water Treatment Works will be upgraded in order to enhance its performance.

To further support the government's Smart Site Safety System (4S) initiative, a wide-range Wi-Fi coverage for smartwatches and AI cameras has to be deployed, which enhances site safety performance and aligns with the government's promotion of advanced safety measures.

Business Challenges

- Large outdoor areas with some locations having poor line of sight requires multiple access points to provide full coverage.
- Supporting over 100 wireless clients, including smartwatches and AI CCTVs.
- Lack of existing cabling between buildings in the compound. A cost-effective full-wireless solution is necessary, with wireless backhaul playing a vital role.
- Harsh and ever-changing environmental conditions.

Customer Name:

Water Supplies Department (WSD)

Deployment Location:

Siu Ho Wan Water Treatment Works,
Hong Kong

Application:

Wi-Fi Network for Water Treatment Plant's operations

Products used:

Altai AX600-S, A2, MIS 200P Industrial Switch and AltaiCare

Result:

Altai's Super Wi-Fi Solution provides wide-ranging network coverage for the Water Treatment Plant. Over 100 wireless clients can be supported seamlessly, even in a remote and outdoor location. Smart Site Safety System can also be applied by the contribution of Altai's solution. The solution enables a reliable Wi-Fi network coverage to the management and workers. The operation efficiency and site safety of the Water Treatment Plant has been greatly improved with Altai's Wi-Fi network in place.

Solution

- Strategically placed AX600-S outdoor access points with high-gain directional built-in antennas provide seamless and reliable wireless connectivity for end devices, even in complex site environments.
- A2, equipped with a 5GHz built-in antenna, enables high-bandwidth and robust wireless backhaul between buildings, eliminating the need for costly cabling.
- MIS200P, an industrial PoE switch, delivers layer-2 network access for APs and other network equipment.
- AltaiCare Cloud enables effortless centralized WLAN management.



Benefits

Altai Super WiFi™ solution provides:

- Seamless roaming for mobile applications across the entire outdoor area.
- Robust hardware designed for outdoor use withstood harsh weather conditions.
- Easy deployment of end-to-end wireless network without relying on existing infrastructure.
- Remote management through AltaiCare for simplified operations and maintenance.
- AlwaysConnected, a wireless redundancy solution for backhauls, ensures highly reliable (zero downtime) connectivity between two buildings in the compound for mission-critical applications.



About Altai

Altai Technologies is a global leader in providing industrial-grade Wi-Fi solutions with a strong presence in over 100 countries. With our brand, Altai Super WiFi™, we specialize in designing, developing, and marketing cutting-edge Wi-Fi products and technologies specifically tailored for industrial applications.

Altai Super WiFi™ offers fully seamless, secured, and resilient wireless solutions that empower businesses to enhance productivity and operational efficiency throughout the industrial digitalization and automation journey. For over a decade, we have earned the trust of hundreds of industrial customers worldwide. Our cutting-edge wireless technologies are deployed in container ports, airports, warehouses, smart manufacturing facilities, mining, oil and gas sites, power plants, and more.

Discover the comprehensive range of Altai Super WiFi™ solutions which are meticulously designed to meet the rigorous demands of industries with mission-critical needs, please visit our official website at www.altaittechnologies.com.

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