IgniteNet
Fire Up Your Network™

CASE STUDY

Minghsin University of Science and Technology
Xinfeng County, Hsinchu

OVERVIEW

Minghsin University of Science and Technology, a 75-acre campus in Xinfeng County, Hsinchu with more than 13,000 students needed a high-speed multi-band networking solution to handle the increasing data and video streaming usage of increasing numbers of tablets, laptops and handheld devices (BYOD) being used across campus. The school IT department sought to upgrade the wireless network performance, seeking full support for existing 802.11 wireless network devices of g/n and 802.11ac networking. At the same time, the school desired low implementation costs, while also minimizing future maintenance costs.

THE PROBLEM

The major challenge to the wireless school network development was to ensure that the expanded 11ac wireless network, with existing RADIUS (Remote Authentication Dial-In User Service) authentication systems were able to co-exist without an increase in costs to purchase expensive networking equipment and to also mitigate high maintenance costs of a central network controller, without compromising campus network login security.

THE SOLUTION

Minghsin University of Science and Technology Department selected a trial building to install 6 IgniteNet 802.11ac SunSpot™ AC1200 AP enterprise base stations. During the trial, IgniteNet SunSpot AC1200 AP 802.11ac enterprise-class cloud base station site installation proved to be hassle-free, providing good coverage, while utilizing the IgniteNet Cloud Controller (cloud management platform), making it easy to understand access point performance, including uplink and downlink information for each client. After the location layout planning and installation functions, the IgniteNet Cloud Controller platform helped IT managers to easily identify the location of the AP, and to troubleshoot and enhance overall performance and efficiency.

SunSpot AC1200 AP 802.11ac

Easy, powerful, & affordable cloud-managed WiFi

With a final increase to a total of 120 IgniteNet AC1200 (SunSpot™) units utilizing the cloud management features, the indoor high-performance enterprise-class 11ac dual-band (2.4GHz / 5GHz) wireless base stations provide campus teachers, students and visitors to secure internet access. Since IgniteNet products provide high efficiency, stable operation, and are easy-to-manage, install and deploy, the university continued the expansion of their wireless network, using the AC1200 Indoor Enterprise 11ac high-performance dual-band (2.4GHz/5GHz) wireless base stations to provide wireless internet access to enhance campus interconnectivity. Through the IgniteNet Cloud Controller platform, that provides scalable and an easy provisioning and management mechanism, the construction of the campus wireless network management was up and running quickly and intelligently.

CONCLUSION

Minghsin University of Science and Technology elected and utilizes wireless cloud management with IgniteNet low-cost AP's and Cloud Controller with justifications briefly summarized as follows:

- easy to install, plug-and-play design
- easy to deploy and manage
- a solid, centralized management system (IgniteNet Cloud Controller), including vital function maintenance
- anywhere cloud management ability, with an effective means to reduce maintenance and operation costs, enhancing wireless network management efficiency
- solid product performance with exceptional value
- seamless integration with current school RADIUS authentication, providing built-in web access
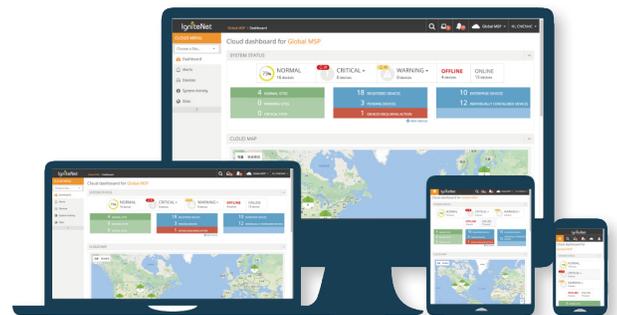
About IgniteNet™

Headquartered in Irvine, CA, IgniteNet is a wholly owned subsidiary of SMC Networks, Inc. IgniteNet has a proven track record of producing powerful, reliable, and easy to deploy, innovative cloud managed wireless solutions and the industry's lowest cost 60 GHz wireless technology through channel partners worldwide focused on Enterprises and service providers.