A Fast & Stable Network for the E-Learning

PRISM Wi-Fi Solution-Any-Time, Anywhere, Any Device Connectivity

BACKGROUND STORY

Object: Taoyuan Municipal Yang Ming Senior High School

Location: Taoyuan City, Taiwan

Taoyuan Municipal Yang Ming Senior High School was founded in 1992. The 5-hectare campus has over 2,400 students and 132 teachers.

To achieve the digital education, the Ministry of Education promoted the policy for first stage of “Internet access in every class, and tablets for students.” from 2022.

As the E-learning application is growing rapidly, the demand for network services and devices with Wi-Fi function have increased over years.

To modernize the education, the Yang Ming Senior High School provides Wi-Fi service to utilize and build up the Internet of Things (IoT) learning environment for teachers and students.

The most important factor of a campus Wi-Fi is to allow students immediate access to data and information that will support their education, in the meantime enabling collaboration and interactive learning.

REQUIREMENTS

The Yang Ming Senior High School plans to deploy new Wi-Fi equipment to improve better user experience, enhance security, increase managed functions and reduce costs. The features include:

- Reliable Wi-Fi service in the campus.
- Connected with central controller (redundancy required) for management.
- Secure access for staff with GOOGLE authentication and for student with whitelist/blacklist.
- High speed and better user experience.
- Classroom on-line collaboration.

CHALLENGES

To facilitate teaching efficiency and effectiveness, the Yang Ming Senior High School provides Chromebooks as an E-learning tool. Thus, a Wi-Fi solution capable of connecting hundreds of end-devices is needed.

The concern of network security on campus is also extremely important. The demands and expectations placed on the wireless connectivity by students, faculty, and guests pose unique challenges that require reliable and secure Wi-Fi solutions.

PRISM SOLUTIONS

- Prism MI10 Wi-Fi 6 AX6600 Tri-Radio Mesh Router for 100 units.
- MX100 PrismX™ Controller BOX for 2 units, one redundant.

In many cases, school is one of the high demanding deployments when it comes to Wi-Fi connectivity. The Yang Ming Senior High School has installed the MI10 Wi-Fi 6 AX6600 Tri-Radio Mesh Router not only to ensure full network coverage in lecture halls, but also extended coverage to area that includes the art gathering building and stadium.

The configurable wireless connectivity AP load balancing feature helps to mitigate the congestion caused by heavy concurrent access in areas such as lecture halls, providing teachers and students with an uninterrupted teaching and learning experience.

Furthermore, the Wi-Fi service must ensure internet security by requiring user authentication, which can be done through Google Authentication, MAC/Chromebook MAC ACL, Rate limit, and Guest Captive Portal.

By using a PrismX™ Controller BOX, administrator can create multiple user rules to manage teacher and student access, as well as define sets of policies and schedules. The administrator can also monitor usage via PrismX™ Controller BOX and manage Chromebooks using MAC ACL.

Prism Wi-Fi solutions improve the coverage in all areas of the campus while reducing operating costs, advancing user experience and enhancing security.

High quality anywhere, anytime access to campus-wide wireless networks with the Prism Wi-Fi Solutions.

For further details and case studies, visit www.prismwifi.com

*Reference: Taoyuan Municipal Yang Ming Senior High School, https://www.pymhs.tyc.edu.tw
**The seller is Brtech. Brtech is PRISM's official distributor in Taiwan.