



## CASE STUDY ENTERPRISE

### OVERVIEW

The Federal Court of Malaysia is the highest court in the country. It is located in the Palace of Justice in the federal administrative capital of Putrajaya and was established in 1957, during Malaysia's independence.



### REQUIREMENTS

- Differentiated services and policy enforcement for users based on roles
- Centralized AP management for easily monitoring the status of distributed APs
- Seamless and fast roaming between individual access points to ensure uninterrupted Wi-Fi experience in high-density environment
- Vendor-agnostic equipment to be integrated with existing network infrastructure

### SOLUTION

The following were deployed across the Federal Court of Malaysia properties:

- **WHG405** Wireless LAN Controller
- **EAP110** Wireless Access Point
- **EAP757** Wireless Access Point

### BENEFITS

- Role-based access control and policy enforcement offers effective management of privileges for different user groups
- Service Zone function partitions a physical network into up to 9 virtual networks, each with its own definable access control and group policy profiles
- Diverse user authentication methods, including built-in Local and On-demand account databases

## A SECURE & RELIABLE WIFI EXPERIENCE AT THE FEDERAL COURT OF MALAYSIA

The Federal Court of Malaysia, located in the Palace of Justice in Putrajaya, is the highest court in the country. Established during Malaysia's independence in 1957, it originally served as the Court of Judicature of Prince of Wales' Island and received its present name in 1994. With the recent advances in communication technology and soaring usage of mobile devices, there is now a stronger demand than ever for stable and ubiquitous Wi-Fi access. This phenomenon led the Federal Court to acknowledge that its wireless network infrastructure needed to be expanded and upgraded.

There were several challenges that the Federal Court faced when it came to providing a reliable and secure Wi-Fi. Firstly, given that the Federal Court could have many users online at any moment, each with multiple devices, the WLAN infrastructure needed to be robust and able to operate steadily in a high-density environment. Secondly, the Federal Court wished to provide differentiated access privileges for staffs and visitors to ensure the security of sensitive data. Lastly, since the existing wireless network contained APs from several different vendors, along with the fact that the Federal Court did not wish to overhaul the entire infrastructure, the new Wi-Fi solution needed to be vendor-agnostic.

After thoroughly evaluating several competing solutions, the Federal Court decided that 4ipnet's proposed solution, which consisted of the WHG405 Wireless LAN Controller and EAP110/EAP757 Wireless Access Points, was their best option.

The WHG405 provided centralized management for up to 150 APs, and enabled browser-based user authentication for users to easily login to Wi-Fi. Once users were logged in, administrators were then able to enforce firewall rules and bandwidth limitations through the WHG405's role-based policy feature. Additionally, in the event of illegal Internet activities, detailed usage logs like HTTP Web Log and NAT Conversion Log helped the IT staff quickly trace the source of the activity. These user management and logging features helped create a secure and reliable Wi-Fi environment for every user and device in the Federal Court.

In addition to the controller, the EAP access points also played a significant role in maintaining a high performance wireless network. With the comprehensive performance and security features such as VLAN tagging and Layer 2 Firewall, the Federal Court was able to segregate network traffic and limit broadcast domains, and prevent unnecessary packets from being transmitted onto the wireless medium. The most significant benefit came from integrating the access points with the controller, giving the Federal Court a total solution for AP management, user access control, and network traffic monitoring.

In conclusion, 4ipnet's WLAN solution surpassed the Federal Court's expectations. From network services to user monitoring and AP management, 4ipnet's features helped simplify the workload of network administrators and guarantee a stable and secure wireless network.