Case Study EIS: TP-Link & Qinfotech

Modernising Legacy Network Infrastructure

At a glance

This case study highlights how a business modernized its outdated network infrastructure using TP-Link solutions implemented by Qinfotech, resolving issues like frequent downtime and security vulnerabilities. The upgrade, featuring managed PoE switches, access points, and VLAN segmentation, significantly improved network reliability, security, and overall performance, particularly in the critical Point of Sale department.

BENEFITS

1. Significant improvement in network reliability and performance.

2. Elimination of network downtime incidents caused by unmanaged switches.

3. Enhanced network security and traffic optimization through VLAN segmentation.

4. Segregation of CCTV equipment from IT network.

5. Seamless and efficient management via the Omada Cloud Controller.

6. Improved business continuity, particularly in the Point-of-Sale department.

CHALLENGES

The business faced significant challenges due to a 35-year-old, poorly planned network relying on unmanaged switches. This resulted in frequent departmental outages, network loops, IP conflicts with CCTV equipment, and constant errors affecting their on-premises ERP and POS systems, particularly disrupting Point of Sale operations. The outdated infrastructure had become a liability, hindering business continuity and overall productivity.

To modernize their network, the business implemented a TP-Link solution through Qinfotech, featuring managed PoE switches, ceiling access points, and new CAT6 cabling. This upgrade enabled VLAN segmentation, isolating critical systems like ERP, CCTV, and POS, enhancing security and optimizing network traffic. The implementation eliminated downtime, improved network reliability, provided centralized management via the Omada Cloud Controller, and improved business continuity, especially in the Point of Sale department.

SOLUTIONS

After evaluating several vendor solutions, EIS selected TP-Link's solution, implemented by Qinfotech. The solution consisted of:

Professional Service

Information Technology

Accounting Management

This setup provided a new backbone for the network and enabled detailed network management through the implementation of VLANs to segment departments and device functions, such as printers. This overhaul cleaned up and optimized network traffic, allowing for optimum performance of the ERP and seamless communication with the on-premises server.

CCTV equipment was isolated from the main network with its own VLAN, and loopback protection features were applied to prevent bad equipment or user-created loops from bringing down the network. Management via the Omada Cloud Controller now makes support a breeze. The network can be remotely monitored, and any traffic routing and optimizations can be proactively addressed.

Wi-Fi requirements are easily managed within the Omada controller to provide coverage for Admin and Sales area's.

tp-link

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