Case Study HIGHBURY
TP-Link & Qinfotech

Empowering Learning: A Comprehensive Network Upgrade at Highbury Preparatory School

At a glance

Highbury Preparatory School, a leading boys' Christian preparatory school in KwaZulu-Natal, faced significant challenges with network stability and security. Intermittent Wi-Fi disruptions and occasional outages hindered the effective use of educational technology, impacting both teachers and students. To address these issues, the school collaborated with Qinotech to upgrade its network infrastructure and enhance security measures.

Key metrics

Highbury is commited to providing a well-rounded education with a focus on technology integration, small class sizes, and extensive extracurricular opportunities.

600
Students

11 HEC
Estate with 5 sports fields

CHALLENGES ⌄

- Network Instability: Frequent Wi-Fi disruptions and outages affected the smooth operation of educational tools like EduBoards and iPads.
- Security Concerns: The need for reliable surveillance and monitoring systems to ensure student safety and manage access control.

SOLUTIONS ⌄

Network Upgrade

- Hardware Installation: Qinotech installed TP-Link Omada series switches (e.g., SG2428P v5.30, SG2210MP) and modern Wi-Fi equipment (e.g., EAP215-Bridge).
- VLAN Segmentation: Implemented to improve network organization and security.
- Cabling and Cabinet Reorganization: Enhanced physical infrastructure for better performance.

Security Enhancement

- CCTV Installation: TP-Link VIGI CCTV cameras (models C485-2.8MM, C385-2.8MM) were installed for high-quality surveillance.
- Video Management System: A cloud-based system with mobile app access allowed for remote monitoring and customized alerts.
- Advanced Features: Human detection and vehicle tracking were configured for specific areas like the swimming pool and school gates.

BENEFITS ⌄

1. Time-Savings: Teachers can focus on teaching rather than troubleshooting connectivity issues, saving valuable instructional time.

2. Protection of Data: Upgraded networks provide enhanced security features, safeguarding sensitive student and staff data.

3. Reliable Surveillance: The integration of advanced CCTV systems ensures a safer campus environment through effective monitoring and alert systems.

4. Advanced Surveillance Features: Customized alerts and monitoring capabilities, such as human detection in sensitive areas, contribute to a safer school environment.

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