ZYXEL NETWORKS

Strengthening Surveillance Infrastructure at a District Court in West Bengal

Overview

Zyxel Networks, in collaboration with its partner Active Networks, undertook a significant project to upgrade the surveillance infrastructure at a district court in West Bengal. The goal was to implement a comprehensive CCTV system across multiple buildings, ensuring robust network connectivity and reliable data transmission for enhanced security monitoring. Zyxel Networks' advanced switch solutions, supported by the local expertise of Active Networks, provided the court with a scalable and efficient surveillance system. This deployment not only met the immediate security needs but also established a future-ready infrastructure capable of expanding as needed.

Challenges

This project had its fair share of challenges, but the biggest one was the lack of a scalable network infrastructure for surveillance coverage. The court needed assurance that the implementation would be smooth as butter and a perfect match for the PoE power system for the cameras, without any hiccups. Active Networks played a crucial role in earning the court's trust by assuring them that Zyxel Networks' products meet the highest security and operational standards.

Solutions

With the help of Zyxel Networks and Active Networks, the court installed a powerful XGS4600-32F L3 Aggregation Switch with 4 SFP+ uplinks in the server room, forming a solid core network backbone. This switch delivers high-performance data handling, advanced Layer 3 features, and stacking capabilities for centralized management of surveillance data. The XGS4600-32F is built to handle large-scale networks, offering high throughput and low latency to ensure real-time data processing and rock-solid reliability.

Customer
District Court

Industry
Government

Location
West Bengal, India

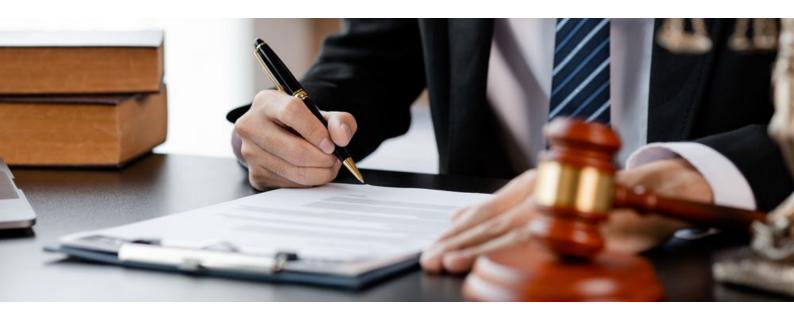**Partner**
Active Networks

Customer Background
A historic judicial institution, located in the heart of West Bengal, recently undertook a project to enhance its security infrastructure. The court, known for its significant legal proceedings and substantial daily foot traffic, recognized the need to upgrade its surveillance capabilities to ensure the safety and security of its premises.

In the court premises, including the courtyard, Zyxel Networks deployed the XGS2220-30HP and GS2210-8HP switches across seven buildings. The XGS2220-30HP is a robust L3 Access PoE+ Switch with 24 Gigabit PoE ports and 4 10GbE SFP+ uplink ports. It powers connected devices like CCTV cameras through PoE, making installation a breeze without the need for separate power supplies. Furthermore, it's built tough to handle heavy network loads.

They also installed the GS2210-8HP, an 8-port Gigabit PoE switch, to support camera connectivity in specific areas. This compact yet mighty switch delivers a high-power budget of up to 180W, providing more than enough PoE power for multiple high-definition cameras. Its Layer 2 capabilities include L2 multicast, IGMP snooping, MVR, voice VLAN and security features that are essential for maintaining the integrity and efficiency of the surveillance network.

Active Networks played a crucial role in deploying Zyxel Networks' products throughout the court, leveraging their expertise and local presence to ensure everything was installed and integrated smoothly.

Product List

- XGS4600-32F L3 Aggregation Fiber Switch with 10GbE Uplinks
- XGS2220-30HP L3 Access PoE Switch with 10GbE Uplinks
- GS2210-8HP L2+ Managed PoE Switch

Results

Thanks to Zyxel Networks' advanced networking solution, security monitoring at the district court has taken a massive leap forward. Now they've got comprehensive surveillance coverage and a network that performs like a dream. Plus, the scalable architecture means they can easily expand in the future with more cameras or new technology.

- Efficient power delivery and flexible uplink options for streamlined network management and scalability
- High-speed data transfer and bandwidth aggregation
- Robust network performance with multi-gigabit ports