Zangiota State Hospital

Zyxel Gets Uzbekistan Covid Hospital's Network Up and Running

Customer at a glance

Customer Name
Zangiota State Hospital

Industry
Healthcare

Country
Uzbekistan

Customer Background

The first wave of the coronavirus pandemic necessitated the rapid commissioning of a medical center capable of receiving thousands of patients. Located in Uzbekistan, this 10,000-bed hospital was ordered to be built by the government in the shortest possible time and to be equipped with the most modern IT infrastructure.

Summary

The hospital not only needed to be completed rapidly but its medical equipment and other IT systems needed to be unified as a single network, which would require integrating the already deployed optical network. Speed was also critical. The new network demands data rates of 1 to 10 Gbps. Three vendors participated in the tender. "The speed of equipment delivery was our top priority," Maxim Andreev, PM at system integrator Light Technology said. "Besides, the system needed to ensure high reliability and the vendor needed to have Russian-language support and a local service center. "Zyxel Networks won the bid because of its strong regional presence, and it walked the walk, with the network ready for the hospital's launch. Its ZyWALL 310 VPN Firewall was deployed to connect the hospital's three buildings and ensure encrypted communications, while Zyxel switches were used to construct the network's hierarchical structure for a secure, high-speed, and resilient network. The switches connect various devices into a single platform, allowing easier device and bandwidth management. The XGS4600-32 L3 Aggregation Switch, which was used as the core switch, comes with Gigabit connectivity and four integrated 10-Gigabit SFP+ slots for optic connectivity. In addition, its dynamic routing simplifies cross-subnet communications for the hospital's complex networks.

Challenges

- Plan and install new infrastructure able to provide high speed and high reliability and that can connect to the existing complex optical network
- Connect all hospital equipment and systems via a single network
- Meet extremely tight delivery and deployment deadlines

Benefits

- All infrastructure unified into a simplified, centralized, easy-to-manage network
- 10G speeds enable fast, low-latency data transmission
- Fast deployment and reliable service allowed hospital developers to meet construction schedule

Solutions

- ZyWALL 310 VPN Firewall
- XGS4600-32 L3 Aggregation Switch
- GS2220-28 L2+ Managed Switch
- GS1920-24HP/48HP Smart Managed PoE Switch