

CDT Medicus

Zyxel Fills Prescription for Polish Medical Center with Bigger Bandwidth, Stronger Security

Customer at a glance



Customer Name

CDT Medicus



Industry

Healthcare



Country

Poland



Customer Background

MEDICUS Diagnostic and Therapeutic Center in the west Poland city of Lubin is a private health care facility established in 1992. Now with clinics throughout four provinces, providing professional care for some 400,000 patients. To enhance the services at its headquarter, it sought to deploy a new wireless network for medical professionals and patients.

“The solutions offered by Zyxel made it not just possible but easy for us to implement a secure, fast, and reliable wireless network. This is extremely important for a medical service provider like ourselves. Basing the entire network on Zyxel devices allowed for its full integration and facilitated the management of the entire infrastructure, which has also made identifying possible irregularities far more straightforward and efficient.”

Kamil Stefański
IT Manager
MEDICUS Diagnostic and Therapeutic Center

Summary

With every data point of a patient’s medical history now accessible with the tap of a key, a reliable internet connection is essential for a successful medical practice. For MEDICUS, this meant providing a high-capacity wireless network across three floors. But that was easier said than done. First, the network needed to support 230 computers while ensuring maximum security for patient data. Then there was the reinforced concrete structure of the building and the numerous medical devices, like MRI machines, whose operation severely hampers the operation of wireless access points. “The health care industry has among the toughest standards for network equipment,” Zyxel VAR Account Manager Aleksander Styś explains. “Their speed and reliability as well as their ability to protect patients’ privacy are absolutely critical.” In the MEDICUS case, overcoming the aforementioned challenges in order to meet such standards required increasing the WiFi network’s throughput and stability. The main server was equipped with a 10-Gbit card, which upped the overall efficiency of the network and daily tasks by increasing bandwidth tenfold. Next, Zyxel XGS2210 series switches were used for wireless distribution, as their 10-gigabit SFP+ uplink ports ensure high-speed connections between devices and NWA5123-AC HD APs, enabling data transfer speeds of up to 1300 Mbps.

Challenges

- Build a high-capacity wireless network on three floors of the medical center, supporting over 200 computers while ensuring maximum security for patients’ data
- Ensure that the reinforced concrete structure of the building and its large number of medical devices, such as MRI machines, don’t affect the operation of wireless APs

Benefits

- Unified network structure provides simpler and more efficient management of infrastructure
- Increased throughput and stability of the WiFi network delivers superior operating efficiency

Solutions

- XGS2210-52/52HP L3 Access Switch
- NWA5123-AC HD 802.11ac Access Point