



Smart Connectivity in Sacred Spaces: Powering Reliable WiFi at Tihany Abbey

Overview

Tihany Abbey, a historic monastic community dating back to 1055, blends centuries-old heritage with modern monastic life. it.hu partnered with Zyxel Networks to overcome connectivity challenges, delivering a high-performance, reliable WiFi solution that supports the abbey's community, guests and daily operations. The network was implemented in a flexible and scalable way, ensuring the abbey's historic integrity remained uncompromised. This deployment supports hospitality, teaching, and monastic activities, enabling a modern digital experience within a centuries-old setting.

Challenges

The abbey's network was slow, unreliable and lacked coverage. Thick historic walls, frequent power outages and restrictions on drilling made network installation difficult, while remote management was essential due to the abbey's location and dispersed buildings.

Solutions

it.hu and Zyxel Networks collaborated to design a complete end-to-end solution to meet the abbey's needs.

The access points, including the NWA1123-AC PRO, WAC6503D-S, WAC500H, and NWA55AXE, provided strong indoor and outdoor coverage across the church, friary, and gardens. The USG FLEX 100H next-generation firewall ensured robust cybersecurity. GS1920 series switches supplied PoE and non-PoE connectivity over both new and existing copper and optical lines.

The Nebula cloud networking management solution enabled full remote monitoring and management of switches, firewalls, access points and clients, allowing rapid response to issues or changes. The solution respected the abbey's historic architecture, avoiding wall drilling and delivered a resilient network with the flexibility for further upgrades, expansion or scaling down.

Customer

Tihany Abbey

Industry

Religious organization

Location

Tihany, Hungary

Organization Size

Below 50 employees

Partner

it.hu

Customer Background

Founded in 1055, Tihany Abbey is a Benedictine monastery set on a seven-hectare estate on the northern shore of Lake Balaton, Hungary. Its baroque church, friary museum and gardens support a vibrant monastic community engaged in prayer, teaching, hospitality and crafts combining centuries-old tradition with modern operational needs.



Thanks to the Zyxel Networks solution, we can use a reliable, high-coverage WiFi network in all public spaces and work areas, 24/7. This ensures that meetings, financial processes and other business applications run smoothly. Since then we have had several change requests, to which IT has been able to respond quickly, as they can see the system operation remotely, so the assistance is efficient and flexible."

Zoltán Dobos, IT Business Manager
Tihany Abbey

Results

The upgraded network architecture equips the abbey with reliable connectivity, supporting both daily routines and long-term digital plans. High-performance WiFi solutions provide strong wireless signals throughout the site, enabling smooth operations and uninterrupted network access. The next-generation USG FLEX 100H firewall delivers comprehensive, AI-powered cloud cybersecurity protection, ensuring peace of mind.

Remote monitoring and management via Nebula allows IT staff from it.hu and the abbey to quickly detect and resolve issues, keeping the network running efficiently for both guests and monks.

- Seamless, high-coverage WiFi across buildings and outdoor areas, resilient to power outages
- Remote management enables rapid issue resolution
- Smooth operation of meetings, financial processes, and daily administrative tasks
- Reliable connectivity for guests and monks, supporting hospitality, teaching and monastic activities
- Robust network security protects against external threats
- Flexible, scalable network implemented without compromising the abbey's historic integrity

Product List



- NWA1123-AC PRO WiFi 5 Access Point
- WAC6503D-S WiFi 5 Access Point
- WAC500H WiFi 5 Access Point
- NWA55AXE WiFi 6 Outdoor Access Point



- GS1920 Series Smart Managed Switch



- USG FLEX 100H Firewall



- Nebula Cloud Networking Solution

