



## Success Story

### Zyxel Multy X Conquers Network Nightmare at Polish Manor



Residential  
Estate



Home  
Networking



Poland



Zyxel  
Home WiFi  
Solution

## Overview

### Challenges

- Provide WiFi to a spacious, difficult-to-cover residence
- Extend router signal without wiring through structure's walls
- Ensure network setup and management are fast and intuitive

### Benefits

- Produced a potent, expansive, and secure mesh WiFi network
- Delivered dependable WiFi coverage to the entire residence
- Honored homeowner's request to leave walls unscathed during installation

### Solutions

- Zyxel Home WiFi Solution: Multy X WiFi system

"The customer expected a wireless network with maximum coverage on both floors of the residence, but didn't want to penetrate the walls. So we based the entire network on a single wired device mounted in a garage at the corner of the estate."

Grzegorz Krulikowski  
Owner, Net Systems

## Background

The technical specialists at Net Systems, a Polish IT company and Zyxel partner, had more than a little experience developing WiFi solutions for their clients. However, when the homeowner of a large estate informed them that the structure's walls would be off limits during the installation process, they understood that completing the task would involve a bit of ingenuity.



## Challenges

The 20-year-old manor, which contained two stories and a basement, spanned a massive 750 square meters. As the ISP's network cable was located in a corner garage, the signal needed to be extended across the 30-meter longitudinal construction of the house in order to provide WiFi coverage to its most distant rooms. In such cases, it's common to run cable from the original router to a more

central access point. From there, the WiFi signal is likely to reach the greatest swath of interior space. The homeowner, however, had a stipulation found only in IT nightmares: the network installation couldn't involve penetrating the structure's walls. As a result, Net Systems had only a few remaining options. Its ultimate plan of attack? To deploy Zyxel's powerful Multy X.

## Solutions and Benefits

Net Systems concluded that four Multy X devices would be needed to provide the entire residence with sufficient WiFi coverage. The first Multy X was set up in the manor's garage and connected directly to the ISP's network cable. A second Multy X, sharing the same space as the wired node, served an important role: it needed to produce a signal far enough to reach the remaining nodes within the residence.

"The other two [Multy X nodes] were installed on both floors in the middle of the building's length," stated Grzegorz Krulikowski of Net Systems. "The signal also reaches most of the cellar, even though we have not installed any devices there."

The resulting mesh network enabled wireless devices to connect automatically to the nearest Multy X node without the inconvenience of switching SSIDs. Unlike traditional WiFi extenders, which have to contend with considerable signal degradation the farther the original signal is stretched, a mesh network maintains optimal signal strength within the area being covered.

With the successful installation of the Multy X nodes, the homeowner was now able to manage the network using the simple, time-saving Multy mobile app. The app serves



as a virtual hub for all network processes, providing remote control, guest network management, and easy installation of compatible Multy nodes.

"Multy X is about simplicity and efficiency," states Aleksander Styś, VAR account manager at Zyxel. "The elegant appearance of the devices makes them fit into any interior, but behind this simplicity lies a powerful network solution."

By deploying Zyxel's Multy X, Net Systems was able to provide a large estate with a strong, reliable WiFi signal and complete coverage—all without having to tear the house down.

## Product Used

### Multy X • AC3000 Tri-Band WiFi System



- Tri-Band technology delivers a strong, fast WiFi signal
- Exceptional WiFi coverage throughout entire home or building
- Quick, hassle-free installation via Multy app
- Unified WiFi name & password
- Automatically connects to the fastest path

## About Zyxel Communications

Focused on innovation and customer-centricity, Zyxel Communications has been connecting people to the Internet for nearly 30 years. Our ability to adapt and innovate with networking technology places us at the forefront of creating connectivity for telcos and service providers, business and home users. Zyxel is building the networks of tomorrow, unlocking potential, and meeting the needs of the modern workplace — powering people at work, life, and play. Zyxel, Your Networking Ally.

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