



Success Story

Zyxel Wireless Solution Supports German Healthcare Subsidiary's Philanthropic Future



Healthcare



Malteser International



Germany



Zyxel Wireless Solution

Overview

Challenges

- Upgrade insufficient wiring and hardware
- Provide total indoor, outdoor, in-vehicle coverage
- Ensure volunteers also have network access

Results

- Centralized, cloud-based management
- Savings from energy-efficient devices and scheduled shutdowns
- Separate networks for full-time and volunteer staff

Solution

- Zyxel Wireless Solution

"The new network makes our existing work processes easier, faster, and—therefore—more efficient."

Rainer Faust, Manager
Malteser Obertshausen Subsidiary

Background

Malteser International, formerly Malteser Germany, has been providing aid and services to the sick and disadvantaged since its inception in 1953. Working under the auspices of the Order of Malta, the historic international group that's been around for nearly a millennium, Malteser's mission is comprehensive: deliver first-aid training, comprehensive medical support,

emergency preparedness and civic protection, and a host of other important services. The group relies heavily upon donors and its extensive volunteer base to achieve its philanthropic goals.

Challenges

The Malteser team in the city of Obertshausen had wanted to upgrade its office network, but financial and logistic hurdles kept getting in the way. Specifically, their existing wiring and hardware had lacked the flexibility necessary to handle the desired changes. As their office searched for external IT vendors that would be up for the task, they had a few requirements in mind. First, the network solution had to be able to deliver coverage to the entire medical facility, including its exteriors. Second, they needed a way to provide easily manageable wireless connectivity to volunteer staff. Third, the upgrade would have to offer a certain amount of longevity and scalability—invaluable in an ever-changing tech market—while taking into account the office's budget limitations.



Solutions and Benefits

The Malteser office was recently given a complete network overhaul, thanks to a generous joint donation from Zyxel and locally-based Bien Network. The entire project—planning, deployment, and even future management—was provided free of charge. “The structure of the old network was thoroughly analyzed, and we used this analysis to plan and implement the new one,” said Fanny Weisflug-Bien, managing director of Bien Network.

The Zyxel Wireless Solution begins with the **NSG50 Nebula Cloud Managed Security Gateway**. The small but powerful device takes full advantage of the Zyxel Nebula platform to deliver total network control via the cloud. Connectivity extends from the gateway to the **GS1920-24/24HP 24-Port Gigabit Smart Managed PoE Switch**, which comes with user-friendly GUI management and a robust feature set. Since the switch is also PoE-capable, it can power up Malteser's two APs: the **NWA1123-AC HD 802.11ac Wave2 Dual-Radio PoE Access**

Point and NWA1123-ACv2 802.11ac Dual-Radio Ceiling Mount PoE Access Point.

After testing the upgraded wireless connectivity from every corner of the facility—even within their emergency vehicles—the Malteser team confirmed that the deployment was a complete success. As per the medical group's initial request, the network has been separated in a way that allows for easy management of full-time and volunteer access. The solution also gives the office the ability to schedule hardware shutdowns to reduce energy costs. With their centrally managed, mobile-friendly Zyxel network up and running, and plans to integrate VoIP in the near future, Malteser's Obertshausen office has all the high-tech tools needed to achieve its philanthropic mission.

Products Used

NSG50 • Nebula Cloud Managed Security Gateway



- Complete network, security, and application control from anywhere via the cloud
- Zero-touch, site-to-site VPN
- Secure networks with IDP and Application Patrol, Content Filtering, and Anti-Virus
- Built-in DHCP, NAT, QoS, and VLAN management
- Static route and dynamic DNS support
- Identity-based security policies and application management
- Cloud management and cloud statistics

GS1920-24/24HP • 24-Port Gigabit Smart Managed PoE Switch



- Easy-to-manage, rich L2 features with user-friendly, browser-based management GUI
- Supports PoE+ standard to offer 30 W per port and a high PoE power budget of 375 W
- Smart fan design ensures silent operation in both desktop and rack-mounted environments
- Supports ZON Utility and Smart Connect to simplify network management and maintenance

NWA1123-AC HD • 802.11ac Wave2 Dual-Radio PoE Access Point



- NebulaFlex™ gives you the flexibility to switch between standalone and license-free Nebula cloud management
- Nebula cloud management allows easy deployment, real-time configurations, and access to all your APs at any time
- Achieve reliable connectivity, support for more connected clients, and better wireless coverage with the latest Wave 2 WiFi standard
- Up to 300% more performance from MU-MIMO technology
- Robust build quality, including solid-state capacitors and advanced heat dissipation design, to ensure long life and operational reliability
- Protect against 3G/4G cellular network interference with Zyxel advanced cellular mitigation design

NWA1123-ACv2 • 802.11ac Dual-Radio Ceiling Mount PoE Access Point



- NebulaFlex™ gives you the flexibility to switch between standalone and license-free Nebula cloud management
- Nebula cloud management allows easy deployment, real-time configurations, and access to all your APs at any time
- 802.11ac 2x2 support for combined data rates of up to 1.2 Gbps
- Compact ceiling-mount design with optimized RF performance
- Robust build quality, including solid-state capacitors, to ensure long life and operational reliability

About ZyXel

Focused on innovation and customer-centricity, ZyXel 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.

Copyright © 2019 ZyXel and/or its subsidiaries All rights reserved. ZyXel, the ZyXel logo are registered trademarks of ZyXel and/or its subsidiaries. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.