Success Story

Czech Health Care Provider Cures WiFi Ills with Zyxel Nebula Solution

INDUSTRY Health Care	**CUSTOMER** Blood Center	**REGION** Czech Republic	**SOLUTIONS** Zyxel Nebula Solution

Overview

Challenges

- Update outdated wireless network
- Provide reliable Internet connectivity for patients, guests, and staff
- Solution must be centrally managed for easy administration
- Connections must be secure and stable
- Ease of use is a primary concern

Solutions

- Zyxel Nebula Solution - 802.11ac Dual-radio Nebula Cloud Managed Access Point

Benefits

- Easy management of branch networks from central location
- Easy to add devices through scanning QR code
- Troubleshooting can be managed remotely

"For our company, it was important to be able to send the devices to branches without the need for configuration. The configuration took place remotely without on-site IT. The ability to monitor individual devices, including reports, was another obvious advantage. This allowed us to first test the Nebula before implementing it."

Jan Žurek
IT Administrator, Blood Center Ltd.

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Background

Blood Center Ltd. is non-state medical center that conducts blood and plasma collection, a wide range of biological material testing for contracted physicians, transfusion departments, and laboratory examinations for veterinary practitioners. Therapeutic infusions and plasmaphereses are also performed. Other departments include medical clinics, a pharmacy, a distribution warehouse for drugs, and a bistro, not only for employees and donors, but also for the public. The center has four branches, all located in Northern Moravia, Czech Republic.

Challenges

Rising demand for WiFi connectivity among visitors and staff at the center made it necessary to replace the outdated and unsatisfactory networking hardware. The legacy system lacked centralized administration, complicating management of the overall network.

Because the center operates four branches, ease of set up and operation were even more critical for the new network, due to the lack of a dedicated IT staff and resources.

Solutions and Benefits

Blood Center chose the Nebula cloud network management solution from Zyxel for the trouble-free deployment and user-friendly management options it offers. Additional assistance was provided by local Zyxel partner MITS-ICT Ltd. After logging into the Nebula Control Center (NCC) and adding individual WiFi devices, users can configure settings for their preferences. NCC features a user-friendly graphical interface in which the customer has a comprehensive picture of what is happening on the network, including which devices are working, their locations, and their workloads. All this is displayed on one screen. The network can be managed from any location, wherever an Internet connection is available. This eliminates the need for costly on-site IT services. Through NCC, users

can also set time limitations, authentication, load balancing, VLAN, and captive portal settings for different SSIDs.

Installation of the Zyxel NAP102 802.11ac Dual-radio Nebula cloud managed access points was simple — just plug-and-play — devices could auto-connect to the cloud. Because of the easy installation, the deployment took place while the blood center was in full operation. Likewise, configuration was performed using the cloud interface. By simply scanning the QR code on the device, it could be registered to an organization, and the configuration performed automatically. There was no need for an IT expert to be physically present, configured devices were simply sent to the branches.

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Products Used

NAP102 • 802.11ac Dual-radio Nebula Cloud Managed Access Point

- Cloud-managed, dual-radio 2x2 MIMO 802.11ac access point
- Supports combined data rates of up to 1200 Mbps
- Self-configuration and zero touch deployment
- Enterprise-class security and RF optimization
- Dynamic Channel Selection, Load Balancing and Smart Client Steering

Nebula Control Center (NCC)

- Responsive web design & intuitive user interface
- Multi-tenant & multi-site view
- Role-based administration privilege
- Real-time and historical monitoring/reporting
- Site-based auto & smart configuring tools
- Misconfiguration protection against disconnecting NCC
- Rich site-wide management tools (Dashboard, Map & Floor plan, Topology)

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.