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NETWORKS

Success Story

Russia's Leading Bakery Manufacturer Optimizes Network Infrastructure with Zyxel's Future-Ready Solution

Manufacturing
INDUSTRY

Tolyattikhleb
CUSTOMER

Russia
COUNTRY

Zyxel Wireless Solution
SOLUCIÓN

Overview

Challenges

- Replace the company's existing network that was causing frequent system failures and malfunctions
- Achieve smoother, centralized management of the network by using equipment from a single vendor
- Have seamless wireless coverage of the entire manufacturing and operations premises
- Implement a network system that would support the company's business growth plans

Solution

- Zyxel Wireless Solution

Results

- A new cost-efficient network infrastructure that replaced the older problematic system that was in place
- Reliable and high-speed wireless connectivity throughout the enterprise
- A centralized network management system that is simple and easy to manage
- A future-ready solution that could enable the company to focus on its business development.

"We thank SoftEx and the representatives of Zyxel Networks for the competent implementation of the project. The results of our joint work allowed Tolyattikhleb to realize the goals and move steadily towards the designated development concept. We would like to wish you fruitful work, even more successfully completed projects, and not stop at the achieved heights."

Andrei Denisov,
Head of IT Department, Tolyattikhleb JSC

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Background

Togliattihleb, better known in the market under the brand name "Edge Karavay," is one of the leading and dynamically growing manufacturers of bakery products in Russia. Tolyattikhleb JSC is a large automated manufacturing enterprise that employs about 350 people. The company prides itself as an innovator in the field, combining advanced automation technology and expertise to set trends in taste, appearance, and packaging.

The IT network of the Togliattihleb consisted of 250 computers, peripherals, and other equipment with wireless infrastructure. The system included products from various manufacturers. However, the company's continuous business growth put stress on its existing network and necessitated an upgrade.

Challenges

As Togliattihleb increased its production to meet consumer demands, the network performance proved inefficient. There were frequent system failures, and such malfunctions began to hurt operations. The company was also using network equipment from various manufacturers, which further complicated management and optimization. Such a situation makes it difficult for companies to focus on their business operations and expansion plans.

Solutions and Benefits

According to Andrey Denisov, Head of the IT Department of Tolyattikhleb JSC, there were three main objectives to the project. First, to bring the entire network infrastructure to a single standard using equipment from the same manufacturer. Second, achieve full coverage of the enterprise with a WiFi network, and third, deliver convenient system management with an eye to its future scaling.

The main criteria when choosing equipment were: expertise, reliability, and cost-efficiency. Three of the world's largest manufacturers, including Zyxel Networks, had entered the race to bid for the tender. Zyxel Networks won the project and began work through the partner SoftEx.

At the very early stage of project preparation, Zyxel Networks provided SoftEx with a specialist who greatly facilitated the task of calculating the project and choosing the necessary devices. In the words of SoftEx project manager Oleg Ermishin, such attentive support and clear, transparent pricing were some of the most attractive attributes of working with Zyxel Networks.

"The fact that Zyxel Networks had a service center in Tolyatti based in our company served as an additional advantage when choosing a customer," Oleg Ermishin added. The introduction of equipment was carried out in stages by four specialists. The project was completed in four months.

"We practically did not face any difficulties at all in work," Oleg Ermishin continued. "There were several reasons for this. First, high-quality training on our part. Secondly, Zyxel's professional support throughout the implementation of the project, and, finally, a great response from the customer, who made it possible to carry out the tasks with patience despite any inconvenience there may have been."

In this project, the company used **WAC6502D-S 802.11ac Dual Radio Smart Antenna 2x2 Access Points**, and quite a few top-notch switches including **GS2210 series switches**, **XGS2210-28HP 24-port GbE L2 PoE Switch with 10GbE Uplink**, and **XGS3700-48/48HP 48-port GbE L2+ PoE Switch with 10GbE Uplink.** The WAC6502D-S APs have smart antenna technology that selects ideal patterns to enhance connectivity with each client and reduce interference when there are other wireless devices around.

The switches support Zyxel One Network, which is designed to simplify the configuration, management, and troubleshooting. Zyxel One Network Utility (ZON Utility) is an easy-to-use tool that can help achieve high-speed network setup. Zyxel Smart Connect allows Zyxel networking equipment to identify and recognize each other. The user can maintain their network remotely via one-click remote functions such as factory reset or power cycling.

Tolyattikhleb now enjoys stable, uninterrupted WiFi connectivity throughout the entire company. Also, they no longer need to worry about complicated network management and frequent equipment failures.

Commenting on the results of the project, Andrei Denisov said that working with Zyxel Networks and Softex has been extremely beneficial to his company.

"We are delighted with the project and its final outcome that Softex and Zyxel have together delivered to us," Andrei Denisov added. "With the new solutions that we have now in place as the result of this joint work, Tolyattikhleb JSC has been able to meet its goals and steadily progress towards its further development plans. We thank Zyxel Networks and Softex and wish them the very best for future endeavors."

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Products Used

WAC6502D-S • 802.11ac Dual Radio Smart Antenna 2x2 Access Point

- Zyxel smart antenna with more than 700 optimized antenna patterns provides breakthrough performance anywhere
- Ideal for high-density and interference-laden indoor environments
- Advanced IEEE 802.11ac offers combined data rates of up to 1.2 Gbps
- Industry-leading Rx sensitivity as low as -102 dBm
- AP Flex™, DCS, and tool-less bracket design for streamlined deployment

XGS2210-28HP • 24-port GbE L2 PoE Switch with 10GbE Uplink

- Physical stacking up to 2 units and 96 Gigabit ports
- Gigabit connectivity plus four (4) SFP+ ports
- VLAN communication through access switch by static routing feature
- Supports sFlow that analyzes client behavior
- PoE models comply with IEEE 802.3at PoE Plus with high power budget up to 375 W

XGS3700-48/48HP • 48-port GbE L2+ PoE Switch with 10GbE Uplink

- Physical stacking up to 8 units and 384 Gigabit ports
- Four 10GbE SFP+ uplink flexibility
- Internal and hot-swappable power supply design
- PoE model supports IEEE 802.3at with high PoE power budget up to 1000W

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Products Used

GS2210 Series • 24/48-port Gigabit L2 PoE Switch

- High power budget of 375 W
- L2 multicast, IGMP snooping, MVR, and voice VLAN for convergence
- Enhanced network protection with IP source guard, DHCP snooping, ARP inspection, and CPU protection
- L2, L3, and L4 filtering, MAC freeze, port isolation, and guest VLAN for improved isolation and access control

About Zyxel Networks

Focused on innovation and customer-centricity, Zyxel has been connecting people to the Internet for over 30 years. Our ability to adapt and innovate with networking technology places us at the forefront of creating connectivity for business and home users.
We're 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.