Success Story

Zyxel's Switching Solution Helps Russian Meat Processing Plant Make CCTV Systems Stable and Efficient

INDUSTRY	CUSTOMER	COUNTRY	SOLUCIÓN
Food	Bobrovsky	Russia	Zyxel Switching Solution

Overview

Challenges

- The new solutionneeded to keep up with the modernized production process
- Needed a stable and reliable network for continuous CCTV operations to monitor the production process
- The devices had to deliver outstanding performance in unique working conditions like low-temperature environment

Solution

- Zyxel Switching Solution

Results

- A robust video surveillance system to monitor personnel performance at the plant
- A future-ready installation that provides room for possible expansion plans of the company
- A stable network that gives peace of mind to the management and systems admins with zero downtimes

"We needed our CCTV system to be as stable as possible. Also, it was required to select equipment with the longest possible warranty period. And of course, we needed a certain functionality that would meet the specific technological conditions of our enterprise: for example, a lower temperature in the shops. Zyxel's equipment was very easy to set up and maintain. It is convenient for employees to maintain the system as a whole. This reduces the burden on the plant's IT department. We are pleased with the Zyxel equipment. In the future, we plan to try Zyxel's WiFi products."

Stanislav Yakovlev,
System Administrator, Bobrovsky Meat Processing Plant

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Background

The Bobrovsky Meat Processing Plant is a critical player in Russia's food production industry with over 60 years of experience, providing meat products, including pork, beef, sausage, and other finished goods. The company has a highly efficient production unit, warehouse, and transport logistics. With regular upgrade and use of modern meat processing technology, Bobrovsky has always remained at

the forefront in its operations. But to raise labor productivity and customer satisfaction even higher, the management decided to create a reliable CCTV system that could regularly monitor employee activities, compliance with technological processes, and compliance with industrial safety regulations. The solution integrator was Delk, a Zyxel partner.

Challenges

By the time the project started, the Bobrovsky Meat Processing Plant had already equipped all its production lines with modern meat processing equipment. The adopted operational technology schemes and processes were supposed to ensure high-quality products. However, there was a need to ensure that the production personnel met the compliant requirements and standards.

The workshops already had a video surveillance system, but it was outdated and did not meet all the needs. Also, the system was continually breaking down and required constant attention from service departments.

The management decided to install an entirely new CCTV system to take care of this problem. This was not just about bringing in modern cameras, but also about upgrading the existing cabling and transmission system with new products.

The new surveillance system had to be robust and stable to help the management monitor the performance of their personnel and make sure that they adhered to the stipulated mandates of the production process. Making things complicated was the fact that the system had to do this in the unique working conditions of a meat processing plant, which included a low-temperature environment.

Solutions and Benefits

The integrator's specialists considered three major device makers, including Zyxel. Several criteria came under scrutiny, including technical specifications, brand reputation, and even market recommendation. "We needed our CCTV system to be as stable as possible. In addition, it was required to select equipment with the longest possible warranty period," said the customer's system administrator, Stanislav Yakovlev. "And of course, we needed a certain functionality that would meet the specific technological conditions of our enterprise: for example, a lower temperature in the shops. In the end, the choice fell on Zyxel. The vendor offered a lifetime warranty, and their equipment was amazingly easy to set up and maintain. Good reviews from our colleagues and excellent recommendations of the integrator were also important factors. "

Zyxel's switches offer a high level of scalability and proven resilience, providing for potential future networking and bandwidth expansion needs and ensuring investment protection. IT management staff can utilize the easy-to-use, browser-based setup wizard and Zyxel ONE Network (ZON) utility tool that makes network management as easy as pie. ZON is an intuitive installation tool that can discover and configure Zyxel switches and WLAN devices, allowing users to manage everything from a single platform easily.

Zyxel's smart managed switches, designed for mission-critical IP surveillance applications, featuring GbE Uplink and internal power supplies, deliver more than enough speed for database access. The switches allow uninterrupted data forwarding if any stack switch fails to ensure resiliency. Being

PoE-capable, Zyxel GS1900-24HP, GS1920-24HPv2, and GS1100-10HP switches can power and connect peripheral devices, including video surveillance equipment, NVRs, and access points. The intelligent PoE design of the switches maximizes the power budget utilization to support more surveillance cameras, enabling stable power supply and data transfer over existing LAN cabling.

After installation, new sections of the network have been successfully integrated into existing sections. All production units were united into a single network. Since the system was launched, not a single untoward incident has occurred, and no system failures have been recorded.

The customer's IT department is considering the possibility of covering its entire property with a wireless network using Zyxel products after the successful implementation. "It is convenient for employees to maintain the system as a whole," Yakovlev explained. "This reduces the burden on the plant's IT department. We are pleased with the results, and consider to use their WiFi system in the future."

Regarding the time taken to complete the project, Yuri Grishin, the project manager of the integrator company, said that the entire work was not completed at a continuous stretch. There were some gaps in between. This made an accurate calculation of the project duration difficult, but on average, it took 1-2 working days to install and configure each section. The switching solution that Zyxel provided has enabled the customer to strengthen its business and have a competitive edge in the market.

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Products Used

GS1900-8/24HP • 8/24-port GbE Smart Managed PoE Switch

- Easy browser-based switch management
- Quick and easy set up wizard
- Green Ethernet IEEE 802.3az support and intelligent Zyxel green features
- High-power PoE support IEEE 802.3at
- Zyxel One Network is supported

GS2210-8/24 • 8/24-port GbE L2 Switch

- L2 multicast, IGMP snooping, MVR and voice VLAN for convergence
- Enhanced network protection with IP source guard, DHCP snooping, ARP inspection, CPU protection
- L2, L3 and L4 filtering, MAC freeze, port isolation, guest VLAN for improved isolation and access control
- Future-proofed with IPv6 support

GS1920-24v2 • 24-Port GbE Smart Managed Switch

- Up and running in minutes — supports NebulaFlex™ Technology to shift between standalone and License Free Nebula cloud flexibly
- Standalone: Easy management and setup with web-based GUI
- Nebula Cloud: Nebula allows simple deployment with agile network management
- Unique port combinations futureproof the network
- Fanless design offers silent operation in your office

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Products Used

GS1920-24HPv2 • 24-port GbE Smart Managed PoE Switch

- Up and running in minutes — supports NebulaFlex™ Technology to shift between standalone and License Free Nebula cloud flexibly
- Standalone: Easy management and setup with web-based GUI
- Nebula Cloud: Nebula allows simple deployment with agile network management
- Unique port combinations futureproof the network
- Smart fan design offers silent operations in your office
- Complies with IEEE 802.3at PoE Plus with a large PoE budget of 375W

GS1100-10HP • 10-Port GbE Unmanaged Switch

- Fanless design for silent operation
- Two SFP ports support for easy long-distance deployments
- IEEE 802.3x Flow control supported
- PoE model complies with IEEE 802.3at PoE Plus

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.