



Success Story

Russian Ice Cream Maker Revives Network Infrastructure with Zyxel Switching Solution



Food
manufacturing



Russkiy
Kholod



Russia



Zyxel
Switching
Solution

Overview

Challenges

- Address unstable, low-speed network connectivity caused by frequent equipment failures
- Unify network connections across different buildings and branches
- Deploy new network that operates at high speeds with larger throughput
- Ensure compatibility with the existing infrastructure by supporting fiber-optic connections and integrating existing IP video surveillance

Results

- Increased LAN performance with high-speed connectivity able to support IP surveillance cameras
- Streamlined and unified network management
- Minimal equipment failures for maximum business continuity
- Outdated network overhauled at an affordable price
- Entire installation completed with ease and in less than a week
- Futureproof infrastructure supports PoE power supply to VoIP devices

Solution

- Zyxel Switching Solution

"As soon as the new network came online, it was fast and it was stable. It has been a great relief for our system administrator, who can finally have some peace of mind. I'd like to thank Zyxel Networks for making this a reality and for its flexible pricing system."

Andrei Yurievich Buzanakov
Head of Automated Control Systems Department
Russkiy Kholod

Background

It's a fact: Russians love their ice cream, even during snowy winter days. In fact, many in the country believe that chowing down on a bowl or cone of the frozen dessert helps your body fight off the cold.

Russkiy Kholod, operating the Pyatigorsk Ice Cream brand, is a market leader. The company has built its brand on the back of high-quality ice cream and natural

ingredients like honey, sea buckthorn, pine nuts, and blueberries, and is now one of the select few Russian ice cream makers whose treats are exported to the EU and U.S. Ready for further international growth, Russkiy Kholod has spent the past several years upgrading its production facilities and capacity as well as setting up new branches to cope with the increasing demand.

Challenges

The company's network infrastructure, which had been haphazardly supplemented as needed over the past dozen years, wasn't going to cut the mustard. The enterprise now consisted of several industrial and office buildings, plus three branch offices in different cities and 15 stores. Meanwhile, its network comprises various kinds of computers and office equipment, all for differing uses and together making the network – and the demands on it – highly diverse.

In addition, the network infrastructure itself simply wasn't robust enough and had started to physically atrophy. The cables were particularly troublesome; they had begun to crack and fray over the years, leading to equipment inoperability and network outages. Network speeds were another hassle, as they would occasionally and unexpectedly drop to a snail's pace. These problems

meant productivity and efficiency were constantly taking a hit, waiting for the long-suffering network administrator to plug outages and get network speed and throughput back up to usable levels.

With the situation as it was, Russkiy Kholod knew it needed not only to replace its aging cables but to modernize its network in general. The new equipment would need to deliver sufficiently high speeds as well as be able to integrate the company's existing IP video surveillance cameras. Since the company's facilities like head office, plants and warehouse are located at a considerable distance, fiber-optic cable connections between buildings were required. And, to support the transition to VoIP, the equipment would need to provide PoE power through each port. Finally, the new network needed to be able to unite all the branch networks.

Solutions and Benefits

Russkiy Kholod turned to Zyxel partner Mikromarket to plan and execute the network modernization.

"The core of the network needed to work at a speed of 10Gbps and be able to connect both copper cables and fiber optics," said Mikromarket project manager Maxim Nesnov, recalling the tender process for the equipment vendor. "And at the same time, the switches had to have at least 48 ports. It was quite an ask."

With their demands set, the enterprises started to screen the six global manufacturers who had submitted bids. Nesnov continues: "Zyxel turned out to be the only company whose equipment met all the requirements – price, availability of 48 port switches with PoE, availability of 24 port SFP+ switches. And its models had SFP+ for communication, which could provide 10Gbps speeds for the core network."

During the installation phase, the company found Zyxel's

switches to be easy to configure and install. In fact, it took only six days to complete the whole process. "Connecting the Zyxel equipment was supremely smooth and went off without a problem," Nesnov said. "I was also very pleased to see that the core of the network was indeed connected at 10Gbps. Using these Zyxel switches, we were able to deliver exactly what the client had been wanting for many years."

In the six months since its launch, the network has worked quietly and stably. This has been a game-changer for Russkiy Kholod, which is now enjoying reliable business continuity without worrying about interruptions or low-quality, low-speed connections.

"There has yet to be a single failure due to an equipment fault –everything works like a Swiss watch and at high speed," Nesnov said, adding that the new Zyxel network infrastructure had also yet to receive any complaint from the customer.

Products Used

XS3800-28 • 28-port 10GbE L2+ Managed Switch



- NebulaFlex Pro allows users to switch between standalone management and intuitive Nebula cloud managed mode with 1-YEAR Pro Pack bundled
- Unique port combination brings maximum flexibility to network diversity
- Supports Multi-Gigabit for 100M/1G/2.5G/5G/10G connections
- Provides high-bandwidth with true physical stacking of up to 4 units
- Designed with "Restore to last custom default" button and redundant power supply to deliver high resiliency and availability

XGS2210-28/52 • 24/48-port GbE L2 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

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.

Copyright © 2020 Zyxel and/or its affiliates. All Rights Reserved. Zyxel, Zyxel logo are registered trademarks of Zyxel Communications Corp. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.