Success Story

Zyxel Wireless Solution Works Its Network Magic for Russian Resort

INDUSTRY	CUSTOMER	COUNTRY	SOLUTION
Hospitality	LES Art Resort	Russia	Zyxel Wireless Solution

Overview

Challenges

• Resolve wireless speed, stability issues
• Provide coverage for large outdoor area
• Unify network components for seamless connectivity

Solution

• Zyxel Wireless Solution

Results

• High-speed, high-quality WiFi for 1,000 guests
• Interiors and exteriors have seamless coverage
• Durable design means longevity no matter the climate

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Background

Upon catching sight of the sleek, life-size topiary animals, guests of the LES Art Resort will know they're in for a magical getaway. The new, sprawling compound is situated in Dorokhovo, a peaceful city on the outskirts of the Moscow oblast. With several spa complexes, interior and exterior pools, a range of high-quality dining options, and a host of enjoyable amenities for adults and children,

the resort can easily cater to hundreds of guests on a daily basis. They also have fully equipped conference rooms to meet the needs of those who enjoy mixing business and pleasure. For travelers looking to enjoy the pastoral scenery and rejuvenating countryside air, LES Art Resort is definitely the place to be.

Challenges

It's hard enough for hotels and resorts to deliver infrastructure robust enough to handle hundreds upon hundreds of bandwidth craving guests. However, LES Art Resort needed to do so across a massive area of 200,000 square meters, more than two-thirds the size of the Kremlin in Moscow, with multiple building structures and extensive outdoor spaces. The resort had originally used small groups of access points to provide internet connectivity to each interior, but overwhelming demand led to network instability and sluggish speed. To make a bad situation worse, there was virtually zero outdoor wireless access for guests. Upon receiving a number of complaints and poor reviews, LES Art Resort decided to make a change.

Solutions and Benefits

LES Art Resort brought in network experts from LWCOM, a respected local integrator, to develop the project. The solution had to do more than just resolve the existing signal and speed issues; it needed to deliver reliable coverage to all of the outdoor areas. The integrator ultimately chose to work with Zyxel over two other equipment manufacturers.

"Zyxel was primarily chosen for its diversity of product offerings," explained Igor Lapshin, project manager at LWCOM. "The hotel buildings have different configurations and user densities, so product versatility was an important factor. Access points for the outdoor areas would need to be durable. And we required moisture-resistant devices for the spa and pool spaces. Only Zyxel was able to provide this kind of range, in addition to their quality service, appealing prices, and Russian-language support."

The equipment was supplied in September of 2018, and LWCOM was able to complete the project before the year's end. Two different Zyxel devices were chosen for the interiors: the **NWA5123-AC 802.11ac Dual-Radio Unified Access Point** and the **WAC6503D-S 802.11ac Dual-Radio Smart Antenna 3x3 Access Point**. Both APs deliver

enterprise-level speed and performance, regardless of user density or interference, so LES Art Resort can always feel confident that its guests are getting the best possible connectivity. For the exterior spaces, LWCOM deployed the **WAC6553D-E 802.11ac Dual-Radio External Antenna 3x3 Outdoor Access Point**. Thanks to IP66-rated weather protection, the rugged AP is able to maintain its powerful signal strength in harsh conditions. The entire network is easily managed with the **NXC5500 Wireless LAN Controller**, which has a comprehensive feature set to ensure the nearly 200 APs are performing optimally.

Today, LES Art Resort has a wireless network that's as awe-inspiring as its picturesque landscape. Not only does it cover the entire spacious property, its seamless roaming technology allows guests to remain connected while moving between specific locations. The resort has even discovered they could handle the tremendous network stress of major business events involving a thousand visitors. It goes to show that a Zyxel solution isn't just a simple network fix—it's a way to make an impossible network possible.

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Products Used

NWA5123-AC • 802.11ac Dual-Radio Unified Access Point

- Ceiling-and wall-mountable design with optimized RF performance
- 2-in-1 standalone/managed AP design
- CAPWAP management supported
- Enterprise-class 2x2 802.11ac AP supports combined data rates of up to 1,200 Mbps
- Simple, speedy deployment with APFlex™ and Zyxel One Network utilities

WAC6503D-S • 802.11ac Dual-Radio Smart Antenna 3x3 Access Point

- Zyxel smart antenna with over 700 optimized antenna patterns for breakthrough performance anywhere
- Ideal for high-density and interference-laden indoor environments
- Advanced IEEE 802.11ac offers combined data rates of up to 1.75 Gbps
- Industry-leading Rx sensitivity as low as -102 dBm
- AP Flex™, DCS, and tool-less bracket design for streamlined deployment

WAC6553D-E • 802.11ac Dual-Radio External Antenna 3x3 Outdoor Access Point

- Dual-band 2.4-GHz and 5-GHz 802.11ac Wireless Access Point
- Designed with IP66-rated weather protection which is ideal for harsh outdoor environments
- Advanced IEEE 802.11ac delivers up to 1.75 Gbps combined data rates
- Industry-leading receive sensitivity as low as -102 dBm
- APFlex™ and DCS for streamlined deployment

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NXC5500 • Wireless LAN Controller

- Centralized WLAN management and auto provisioning
- Manages up to 1,024 APs with granular access control
- ZyMesh simplifies complex, inconvenient cable-heavy WiFi deployments
- Comprehensive features for WLAN performance optimization and always-on WiFi connectivity
- Wireless LAN performance optimization via dynamic channel selection and load balancing
- QR code-based guest authentication
- Zyxel One Network supported

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.