



Achieving Immersive Event Experiences Through Stable and Secure Connections

Overview

Zyxel Networks and Extratel collaborated to implement an advanced network infrastructure at This is Wonderland Napoli, a 40,000-square-meter site offering an immersive experience for all ages. Zyxel Networks' products ensured seamless and efficient operations as well as comprehensive wireless network coverage. The setup included WiFi 6 and WiFi 6E access points, surveillance switches, and a USG FLEX 700 firewall for reliable connectivity and robust security. The Nebula cloud networking solution facilitated device deployment, and its Ethernet failover function ensured uninterrupted network services, even in challenging environments.

Challenges

For the interactive art exhibition, This is Wonderland, it was essential to set up a bar and restaurant ordering system that allowed quick and efficient communication between the kitchen and floor staff. The first challenge was ensuring seamless network connectivity within the office to improve internal communication among employees. Another challenge was providing full coverage throughout the event arena to ensure continuous connectivity everywhere. Managing high traffic to support many users simultaneously was also demanding, as was maintaining a stable connection for smooth digital activities, including secure financial transactions at points of sale. Additionally, the event organizer needed to install rodent-resistant cabling and implement centralized management systems for the network and connected devices to ensure effective control and maintenance.

Customer

Lux Eventi, This is Wonderland

Industry

Entertainment

Location

Napoli, Italy

Organization Size

Over 40,000 m²

Partner

Extratel

Customer Background

Lux Eventi is a leading company in the event and show organization industry, renowned for its ability to create immersive and memorable experiences. With locations in Rome, Paris, New York, and Singapore, Lux Eventi curated the project "This is Wonderland," an attraction spanning over 40,000 square meters dedicated to transporting visitors through a captivating and interactive story.



Zyxel Networks' solutions have enabled us to implement a cutting-edge network infrastructure, ensuring stable and secure connections even in challenging environments like outdoor areas exposed to harsh weather and heat."

Dario de Vincentiis
PM & IT Manager, Extratel

Solutions

Eleven WiFi 6 and WiFi 6E access points, connected with rodent-proof Category 6 LAN cables, were installed to provide comprehensive WiFi coverage. Four smart managed switches optimized data flow and supported high traffic volumes. The USG FLEX 700 firewall provided robust cybersecurity protection through intrusion detection and safeguarded the network from cyberthreats.

The infrastructure was wired with 1 km of rodent-resistant 12-fiber optic cable, offering 1Gb network bandwidth and four public IPs. A central rack cabinet served as the main hub, with two peripheral racks installed. Additionally, VLANs were implemented throughout the infrastructure to ensure efficient and secure network traffic management.

Product List



- WAX630S WiFi 6 Access Point
- WAX620D-6E WiFi 6E Access Point



- GS1350-12HP/26HP Surveillance Switch



- USG FLEX 700 Firewall

Results

With Zyxel Networks' products, the event organizer delivered an unparalleled interactive experience, offering extensive wireless coverage, reliable network access, and optimal local network performance for maximum efficiency and security. The Nebula cloud networking solution was crucial to the project's success, streamlining device deployment and enabling continuous network monitoring. Additionally, the Ethernet failover function ensured uninterrupted network connectivity in the event of a failure in the primary Ethernet connection, preventing any disruptions for end users.

- Comprehensive and reliable WiFi coverage throughout the venue
- Efficient network management optimizes data flow and ensures stable connectivity for numerous simultaneous users
- Enhanced cybersecurity measures protect the network and prevent potential threats

