



Creating a Secure, Flexible Connected Workplace for Italian Engineering Firm

Overview

For its move to a new headquarters in Milan's Navigli district, engineering firm B.Cube set out to build a network that could keep pace with its day-to-day design work, from running CAD software to staying connected to cloud services, while leaving room for future growth. To get there, B.Cube built a WiFi 7 network infrastructure, secured by an advanced firewall and centrally managed through the Nebula cloud networking solution. As the company settled into its new office, it had to ensure operational continuity, high network performance, and maximum flexibility. With Zyxel Networks' solutions, B.Cube gained the speed, reliability, and security of a fully connected work environment, built together with Zyxel partner Eleva. The new infrastructure allows the workspace to be reorganized without invasive intervention, providing a scalable foundation that can adapt as the company grows.

Challenges

B.Cube needed a stable, high-performance wireless solution to provide reliable connectivity across its new office. The relocation integrated four separate building units that lacked electrical and network connections, while the existing infrastructure lacked full network coverage.

B.Cube wanted to avoid invasive structural work and extensive cabling. The move also had to proceed without disrupting daily operations. Additionally, the new network needed to be flexible to adapt to future space reorganizations as the company continues to grow.

Solutions

To minimize disruption from major cabling work across four newly connected units, B.Cube built its new office around a WiFi 7 network designed to deliver speed and stability even under heavy traffic.

Customer

B.Cube

Industry

Engineering & Construction

Location

Milan, Italy

Organization size

1,000 sqm

100 staff and collaborators

Partner

Eleva

Customer Background

B.Cube is a Milan-based engineering firm specializing in integrated services, including execution and construction design, project management, and control. Since 2007, the company has worked with institutional investors, construction companies, and public entities, using innovative technology to streamline project timelines and reduce costs.



We turned our office move into an opportunity for innovation. Thanks to Zyxel Networks' solutions, we now have a secure, fast, and flexible network that aligns with our project design needs perfectly."

Raffaele Quaranta, Co-Owner
B.Cube

Twenty-six WBE660S WiFi 7 access points were installed throughout the space, supporting speeds of up to 10 Gbps and maintaining reliable performance during demanding cloud-based workloads.

To ensure consistent wired connectivity across the building's two floors, the network uses five rack cabinets connected by 10 Gbps fiber-optic backbones. XS1930 and XGS1930 Series multi-gigabit switches complete the architecture, efficiently distributing available bandwidth to connected devices.

For cybersecurity protection, a USG FLEX 500H firewall was integrated at the network core, inspecting traffic at up to 2.5 Gbps without slowing day-to-day operations. This keeps the office protected against external threats while allowing CAD software, cloud platforms, and everyday browsing to run smoothly.

The entire system, including the firewall, access points, and switches, is managed through the Nebula cloud networking solution, centralizing and simplifying B.Cube's network management. Remote management through Nebula also significantly reduces response times to network issues, improves service continuity, and simplifies maintenance.

Results

The new network has significantly improved the performance and flexibility of B.Cube's office. The WiFi network eliminated the latency issues that used to slow down CAD software and cloud-based services. The integration of multi-gigabit switches ensures efficient bandwidth distribution even in the most remote areas, maintaining stable internal communication across departments. The USG FLEX 500H firewall enhances the company's network security without compromising browsing performance.

- Average data speed increase of 20%, with peaks up to five times faster than the previous network
- Latency-free CAD and cloud performance for uninterrupted daily design work
- Consistent and stable internal communication between different departments through multi-gigabit connectivity
- Unified, interconnected office layout, achieved without invasive construction and ready to scale
- Strengthened network security without slowing browsing or cloud access
- Simplified remote management and reduced response time through the Nebula secure cloud networking solution

Product List



- WBE660S WiFi 7 Access Point



- XS1930-12F/HP Lite-L3 Smart Managed Switch
- XGS1930-28 Lite-L3 Smart Managed Switch



- USG FLEX 500H Firewall

