



Success Story

When Connecting One Office Means Connecting Two Countries



Government



CUSTOMER

Cameroon
Consulate



COUNTRY

Turkey



SOLUTIONS

Zykel
Wireless
Solution

Overview

Challenges

- Overcome location's complex, signal barrier-filled layout to deliver a hybrid wired-wireless connection

Benefits

- Products' market-leading designs make for rapid installation
- Uninterrupted high-speed internet access
- Rigorous network security
- Centralized management of network
- Multiple authentication methods supported

Solutions

Zykel Wireless Solution

"Zykel's end-to-end networking solutions offer great advantages for the institutions we serve. In the case of the Cameroon Consulate, the communication infrastructure we provided gives them the ability to immediately intervene to head off any potential problem – 24 hours a day, seven days a week. We guarantee their new network will work stably. "

Ömer Faruk Erünsal
Zykel channel sales manager for Turkey

Background

Want to see all of Africa but only visit one country? Head to Cameroon. The diverse Central African country offers a snapshot of the entire continent's beautiful cultures and landscapes – to the point that it's been dubbed "Africa in miniature." Its economy, the 16th largest in Africa, is largely agricultural. It exports cocoa, coffee, bananas, and rubber to every corner of the globe, including Turkey, where the country is represented by a hard-working, constantly growing consulate.



Challenges

Happily, travel and business exchanges between Cameroon and Turkey flourished in recent years, with more Turks visiting the consulate every day with trade inquiries and visa applications. The increased burden was welcomed by the consular staff – but not by their network. The existing infrastructure, which was overly reliant on a haphazard assortment of wired connections, struggled to handle the increasing traffic.

Seeing this, the consulate called in local Zyxel business

partner Biltaş and ordered a complete refurbishment of its communication infrastructure. Cameroon officials had in mind a hybrid wired-wireless network but were concerned about the difficulty of achieving it, especially considering the consulate's numerous rooms, corridors, and employees as well as the high density of various devices that needed to be connected. And the potential complications didn't end there: the office also has relatively thick walls and columns – the worst enemies of WiFi signals.

Solutions and Benefits

Providing the strong wireless LAN service required by a mid-sized workplace like the Cameroon Consulate is an increasingly demanding task. First, there are simply more and more wireless devices to handle, particularly as a growing number of workers bring in their own laptops and tablets as part of the BYOD trend. Second, the bandwidth demands of these devices are swelling due to data-heavy activities like media streaming and video conferencing.

It was for precisely these challenges that Zyxel developed the **NXC2500 all-in-one intelligent WLAN controller**, and it was precisely this hardware that Biltaş turned to. The Zyxel partner combined the controller with 40 Zyxel

access points, placed at optimal locations that ensured coverage in every room, around every corner, and down every corridor. The NXC2500 wireless LAN controller and access point setup also allows the entire network to be centrally controlled.

It was a satisfying outcome for Recep Murat Taşkıran, Biltaş's general manager. "We've been one of Zyxel's ZyPpartners for many years and have worked on many successful projects in that time," he said. "We were very proud to support the consulate of Cameroon in this special project, and we're looking forward to working with Zyxel on many more cases in the future."

Solutions

NXC2500 • Wireless LAN Controller



- Auto provisioning and centralized management of up to 64* APs
- ZyXel Wireless Optimizer for easily planning, deployment, and maintenance
- Advanced ZyMesh technology for simplified AP deployment and WLAN extension
- Enhanced RF management with auto healing
- Flexible traffic forwarding with tunnel and distributed modes
- Comprehensive guest network management and granular access control

*Management of 64 APs is supported with firmware version V4.10 and above

WAC6103D-I • 802.11ac Dual-Radio Dual-Optimized Antenna 3x3 Access Point



- Dual-optimized antenna allows pattern optimization adapting to wall- or ceiling-mounted installation
- 3x3 802.11ac supports combined data rates of up to 1.75 Gbps
- Load balancing on both standalone and managed modes
- Dual image support for reliable WiFi connectivity
- ZyXel One Network for standalone AP management

About ZyXel Communications

Focused on innovation and customer-centricity, ZyXel Communications 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.

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