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Success Story

Argentinian Mall Keeps Shops and Shoppers Connected with Zyxel GPON and Nebula Solution

INDUSTRY — Shopping Mall

CUSTOMER — Palmares Open Mall

COUNTRY — Argentina

SOLUTIONS — Zyxel GPON & Nebula Solution

Overview

Challenges

- Provide high-speed connectivity and VoIP service to all stores
- Deliver robust WiFi coverage to public areas and food court
- Establish separate network for mall's administrative staff
- Integrate with existing security and fire prevention systems

Solutions

- Zyxel GPON and Nebula Solution

Results

- Improved wired, wireless service for guests and workers
- More control with easy-to-use management tools
- Cost-effective deployment for quick return on investment
- Versatility of the cloud makes further upgrading easy

"Zyxel's long history in Argentina was the main reason we chose their products. The positive reviews from other customers and good price-quality ratio were also important factors. So far we are very satisfied with our choice and how the devices have performed."

Alfredo Sozzi
CEO, Koalix

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Background

Palmares Open Mall is one of Grupo Presidente's largest projects in Argentina. The shopping center, known for its unique design and architecture, is located in Godoy Cruz, 10 minutes from Mendoza City. With more than 140 first-class shops and 22 popular restaurants across 92,000 square meters, the mall offers countless commercial and entertainment services.

The addition of state-of-the-art network technology has been fundamental to the mall's ongoing development. It has transformed Palmares into the primary commercial center to the south of Mendoza.

Challenges

Palmares needed to build a state-of-the-art wired and wireless network for its shops and restaurants, administrative offices, alarm and fire equipment, and security infrastructure.

Since the mall is one of the largest open-area projects in Mendoza Province, and the distances between the points to be covered were more than 100 meters, traditional copper cabling was unable to provide optimal service. In addition to addressing this problem, the network

solution would have to deliver robust, cost-effective WiFi to the gaming, dining, and movie theater areas.

The management team at Palmares asked Koalix, a local integrator specializing in shopping and retail projects, for help planning the upgrade. Tapping into its more than 10 years of experience, Koalix decided to deploy a **Zyxel GPON and Nebula Solution**.

Solutions and Benefits

A GPON (gigabit passive optical network) has many advantages when compared with more traditional networks. Since it uses an unpowered splitter to divide a single fiber-optic signal, one wire from Zyxel's **OLT1408A 1U Pizza Box 8-port GPON OLT** can provide connectivity to many of the mall's shops. The simplicity of the end-to-end solution also saves money. Fewer devices to power and manage means reduced energy and maintenance costs. And since all the provisioning for the **ONT (Optical Network Terminal)** products can be done from the OLT's central management, there's no need for any local configuration.

To meet the need for reliable, high-speed wireless coverage, Koalix installed Zyxel's **NWA1123-ACv2 access points.** Because the APs are managed via the cloud-based **Nebula Control Center**, Palmares didn't need to invest in costly

wireless controllers. High throughput, optimized RF performance, and robust design make these APs perfect for conquering the mall's complex layout.

Every store is now linked via fiber-optic cabling. Not only do shops have fast and stable wired and wireless connectivity for management and payment platforms, they also have the ability to take advantage of the latest VoIP technology. Additionally, the mall's fire and security components have been integrated into the upgraded infrastructure, making it easy to oversee the functioning of these critical apps.

The **Zyxel GPON and Nebula Solution** has given Palmares Open Mall the quickness of fiber and convenience of the cloud, ensuring that shops and shoppers will have the best wired and wireless capabilities for years to come.

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Products Used

OLT1408A • 1U Pizza Box 8-port GPON OLT

- Cost-effective solution with compact design
- Temperature-hardened
- Comprehensive QoS to enhance users' triple-play experience
- Field-proven IGMP snooping and proxy for IPTV deployments
- Full Management via Zyxel EMS NetAtlas

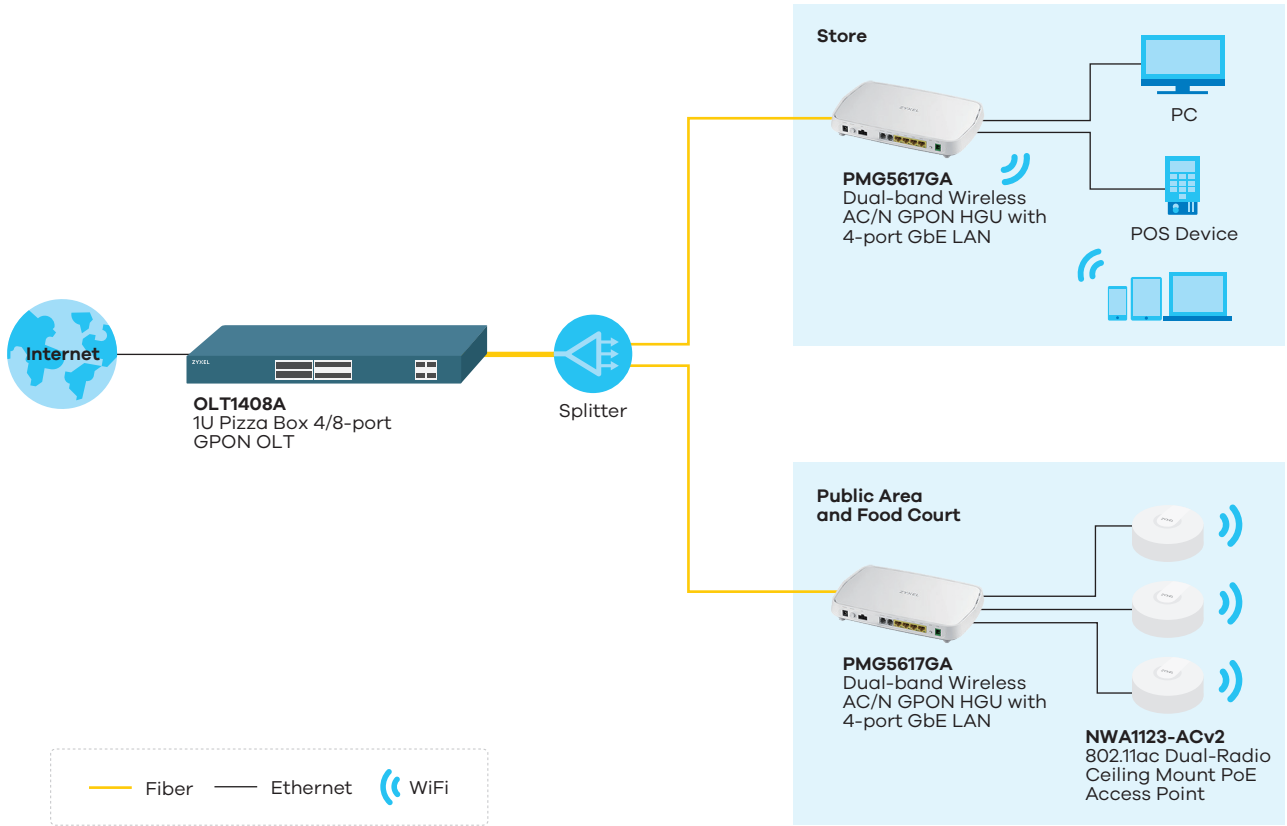### PMG5617GA • Dual-Band Wireless AC/N GPON HGU with 4-port GbE LAN

- Unlimited possibilities with GPON fiber
- Lower OPEX with Zyxel OMCI & APS
- Superior coverage with concurrent dual-band unique wireless circuit design
- Zyxel OPAL firmware offers better flexibility and faster time to market

NWA1123-ACv2 • 802.11ac Dual-Radio Ceiling Mount PoE Access Point

- NebulaFlex™ gives you the flexibility to switch between standalone mode and license-free Nebula cloud management
- Nebula cloud management enables easy deployment, real-time configurations, and round-the-clock access to all your APs
- 802.11ac 2x2 support for combined data rates of up to 1.2 Gbps
- Compact ceiling-mount design with optimized RF performance
- Robust build quality and solid-state capacitors to ensure longevity and operational reliability

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Diagram

Store

PMG5617GA
Dual-band Wireless
AC/N GPON HGU with
4-port GbE LAN

PC

POS Device

Internet

OLT1408A
1U Pizza Box 4/8-port
GPON OLT

Splitter

**Public Area
and Food Court**

PMG5617GA
Dual-band Wireless
AC/N GPON HGU with
4-port GbE LAN

NWA1123-ACv2
802.11ac Dual-Radio
Ceiling Mount PoE
Access Point

Fiber — Ethernet — WiFi

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.