



Zyxel empowers IP Technologies with GPON solutions to narrow the internet gap in Colombia

IP Technologies SAS is a Colombian IT services provider offering a complete portfolio and tailored solutions to support its nationwide operations.

IP Technologies recently responded to the Colombian government's plan to emphasize digitalization, joining forces with the Colombian Ministry of Information Technologies to expand internet coverage throughout the country. Through its partnership with Zyxel Communications, IP Technologies was able to meet project objectives, delivering free, high-quality internet to 13 municipalities in the south of Colombia.

In our modern world, stable, quality internet access is a necessity for anyone conducting a wide range of activities. The pandemic has underscored that internet access is not a luxury but a necessity.

With the support of the Colombian government, the number of people accessing the internet in the country continues to rise. However, internet access is still significantly limited or has very low penetration in some areas. In response to this situation, the government initiated numerous development projects to accelerate the closing of the internet gap. The intent was to not only provide equalize internet access but achieve overall socioeconomic improvement for citizens.



IP Technologies SAS started as an IT infrastructure equipment provider, eventually expanding to provide nationwide telecommunication network provisioning services.

"Thanks to this partnership, IP Technologies was able to achieve a state-of-the-art GPON solution, which we use to facilitate deployments in new territory with reduced OPEX."

Claudio Muñoz
Product Manager, IP Technologies

IP Technologies supported the government's initiatives through internationally certified strategies designed around Zyxel's flexible, comprehensive GPON End-to-End Solutions.

Incorporating the OLT1408A 1U Pizza Box 8-port GPON OLT, the PMG5617GA Dual-Band Wireless AC GPON HGU, and the NetAtlas, a centralized network management platform, Zyxel helped IP Technologies develop a cost-effective, easy-to-manage, and scalable GPON network. Zyxel's strong technical expertise and local technical support enabled IP Technologies to execute the project and meet every milestone in record time, even when facing formidable hurdles like the COVID-19 pandemic.

"We chose Zyxel for its global presence and extensive experience developing broadband access solutions. Thanks to this partnership, IP Technologies created a state-of-the-art GPON solution, which we use to facilitate deployments in new territory with reduced OPEX," said Claudio Muñoz, IP Technologies Product Manager. "In addition, with the latest future-proof technical equipment, we were able to deliver ISO 20000-1 compliant services, such as data transport services, internet, cloud services, and managed security services."

Featured products

OLT1408A

1U Pizza Box 8-port GPON OLT

- 8 ITU-T G.984-compliant GPON ports; each port supports up to 128 ONTs
- Four 10G, eight 2.5G and eight 1G uplink ports
- Comprehensive QoS for enhanced triple-play experience
- Field-proven IGMP snooping and proxy for IPTV deployments
- Sophisticated OAM&P features
- Compact size and front access design for easy installation and deployment
- Zero-Touch Provisioning for fast ONT commissioning
- Layer 3 routing support and ACL for improved network traffic control



PMG5617GA

Dual-Band Wireless AC GPON HGU with 4-port GbE LAN

- Concurrent dual-band wireless circuit design
- Remote management via OMCI and APS
- Zyxel-developed OPAL for superior flexibility and faster time to market



NetAtlas

NetAtlas Element Management System

- Intuitive Graphical User Interface (GUI)
- Fast system recovering
- Up to 300 concurrent remote login clients
- Periodical configuration file backup
- Batch firmware upgrade and service provisioning
- XML/SOAP northbound interface supported



Main challenges

Low penetration of internet coverage negatively impacts the quality of life for many Colombians. IP Technologies was searching for flexible and quality fiber access solutions to support government initiatives to close the internet gap in the Colombia.

Zyxel solutions

- Zyxel OLT1408A Pizza Box 8-port OLT provides up to 500/1K FTTH connectivity with split ratios of up to 1:128.
- Zyxel PMG5617GA Dual-Band Wireless AC GPON HGU with 4-port GbE LAN provides high-speed GPON internet access.
- Zyxel NetAtlas EMS offers a robust management, deployment, and provisioning solution.

Core benefits

- Provides Colombians with equal access to high-speed fiber broadband.
- Delivers cost-competitive but high-performance solutions that meet project milestones.
- Executes project smoothly with strong local support and delivers the expected results on time despite the COVID-19 pandemic.
- Improves operating efficiency and service quality with a centralized network management system.

For more product information, visit us on the web at <https://service-provider.zyxel.com>

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Customer story [IP Technologies](#)

