



3.5GHZ WIRELESS BACKHAUL IN SOUTH BEACH ASIA - PERU

Netkrom solution is to provide wireless backhaul links in the 3.5GHz band to provide wireless internet coverage to Totoritas, Arenas, El Sol, Bonitas, Palabritas, Cocos, Palmas, El Golf, Sol y Mar, and Naplo beaches, that belong to the exclusive resort of Asia. Thanks to the service implemented in each of the Backhaul links, internet access can be guaranteed in these beaches in the South Area. The extension of these developments that make up the beach Spa in Asia covering an area of approximately 8 km long, parallel to the coastline.

TECHNICAL DETAILS

Client: América Móvil del Perú S.A. (Claro).	Location: Asia. Lima South Region	Solution: 3.5GHz Wireless Backhaul in South Beach	WebSite: www.claro.com.pe
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CUSTOMER DESCRIPTION

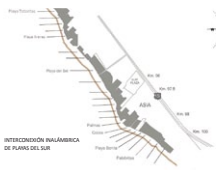
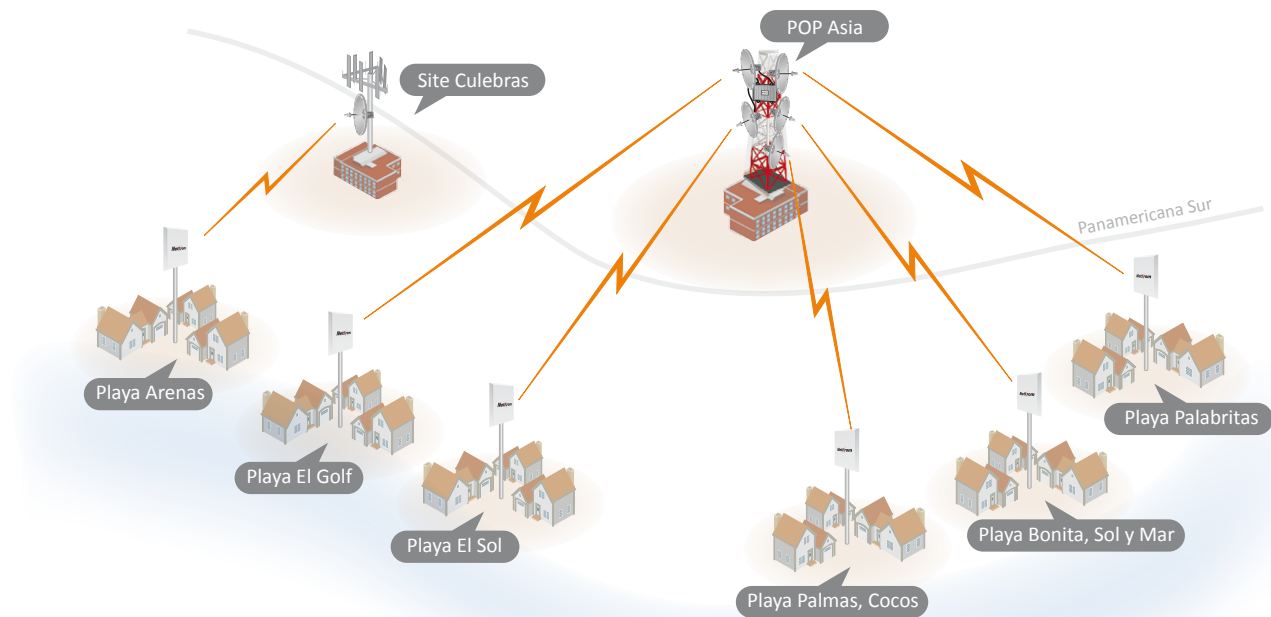
Claro is the brand under which America Movil Peru SAC operates in Peru, an entirely owned subsidiary of Mexico's America Movil, which was formed following the merger of TIM Peru and Sercotel. America Movil Peru S.A.C. is a telecommunications carrier that operates throughout the Peru

territory providing solutions in mobile telephony, fixed telephony, internet, television and other services in the industry, for different segments: individuals, businesses and corporations. It has, therefore, been established as the second largest telecommunications operator in importance in the country.

PROJECT DESCRIPTION

The deployment of this project carried out by Netkrom consisted of the communication of the internet service from the "sites" (mobile base stations) or so-called POP's to each of the 8 seats deployed on the beaches Totoritas, Arenas, El Sol, Bonitas, Palabritas, Cocos, Palmas, El Golf, Sol y Mar, and Naplo. This communication is performed using point to point links in the 3.5GHz band, these links proved their robustness and performance by enabling the bandwidth integrated over a beach, reaching real capacity (throughput) averages of 15 Mbps and 30 Mbps with only 5 or 10 MHz channel width, respectively.

Thus, the wireless platform together provide the optimum allowed Internet service, guaranteeing bandwidth to allow a smooth and fast download of information to users of the 10 beaches in the resorts of Asia.



The Boulevard of Asia is located 100 kilometers south of Lima, where the beaches of the South (Totoritas, Arenas, Sun, and Nice Little Words, Coconuts and Palms) belonging to the Boulevard of Asia.

BENEFITS

- The MIMO technology of the Wireless Backhaul Link enabled to reach real 30Mbps bandwidth average required by the client.
- The 3.5Ghz wireless backhaul is designed based on criteria of flexibility and scalability to meet future expansions for each spa beach.
- The Wireless Backhaul is ready to transport voice and IP connectivity between all nodes implemented.
- Protection of information transmitted was ensured through security and encryption mechanisms in the transport network of the wireless system.