

SkyNet de Colombia Creates Wi-Fi Zones for Telemedicine Initiatives in Amazonas Region Using Cambium Equipment



“Thanks to Cambium Networks’ e410 and e500 Wi-Fi APs, we were able to quickly and efficiently reach remote areas that previously lacked internet service. With these solutions in place, healthcare professionals can increase the number of patients they see via telemedicine and slow the spread of COVID-19.”

LINA SAAVEDRA,
COMMERCIAL BUSINESS
ADMINISTRATOR,
SKYNET DE COLOMBIA



Overview

THE REGION SURROUNDING LETICIA, the capital of the Amazonas in Colombia, has around 40,000 inhabitants, 80% of whom are indigenous people. The area is known for being environmentally friendly and containing an abundance of flora and fauna. However, like most of the world, Leticia was afflicted with the COVID-19 pandemic. It has been reported that Leticia has the highest infection rate of the virus throughout Colombia. This situation has led to a shortage of hospital services for patients and resources for health professionals. The community in Leticia needed scientific research and medical support from other health institutions surrounding the Amazonas region via Wi-Fi access.

The Challenge

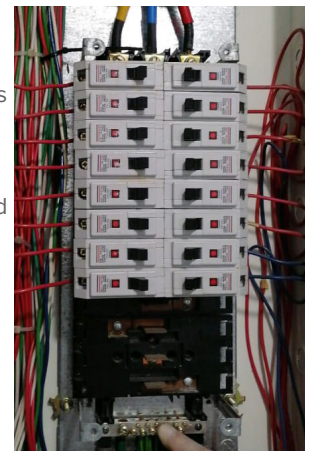
BASED IN BOGOTÁ, COLOMBIA, SkyNet is a telecommunications company providing internet connectivity services via satellite. SkyNet took on the challenge of strengthening the internet access for the San Rafael de Leticia Hospital, the only public hospital in the capital. Due to the geographic location, means of transport are scarce; air transport is the most effective for the region, but it is also the most expensive option. Because of the health crisis, many forms of transport have been suspended.

Technological support, particularly internet access, became more important. The San Rafael de Leticia Hospital needed to expand their services to other methods besides face-to-face interactions. SkyNet set out to install four Wi-Fi zones in the Leticia region and at the San Rafael de Leticia Hospital. The network would allow residents to stay informed about the virus, connect with other regions and have virtual doctors’ appointments. The Wi-Fi network needed to support up to 40 concurrent users, allow for traffic management and cover more than 7,800 square meters for outdoor and indoor operation.

The Solution

SKYNET INSTALLED Cambium Networks’ cnPilot e410 Wi-Fi Access Points (AP) for indoor applications and cnPilot e500 Wi-Fi APs for outdoor applications. A total of 10 Wi-Fi APs has been installed to fully cover the required area: 2 cnPilot e410 Wi-Fi APs were installed outdoors, while 8 cnPilot e500 Wi-Fi APs were installed indoors.

The installation process went smoothly for SkyNet thanks to the user-friendly configuration interface, which lessened the implementation and testing times for the equipment. A captive portal was implemented to manage access to end users and manage traffic.



SUCCESS FACTORS

- With the type of equipment used, SkyNet can offer wireless connectivity for internet solutions or private networks. This includes services with support and management through an administration platform, allowing users to manage the traffic and access control through the captive portal.

The Results

IN LETICIA, an estimated 200 people have connected to Wi-Fi in each Wi-Fi zone. In the Wi-Fi zone covering the San Rafael de Leticia Hospital, approximately 20 administrative and medical staff have reliable Wi-Fi access. Healthcare professionals can attend to more patients in a shorter amount of time thanks to the telemedicine initiative supported by SkyNet and Cambium Networks' equipment. With the support of teleconsultation, distance and impeded access to remote areas will no longer be an issue in assessing patients' health.

Highlights of this project include:



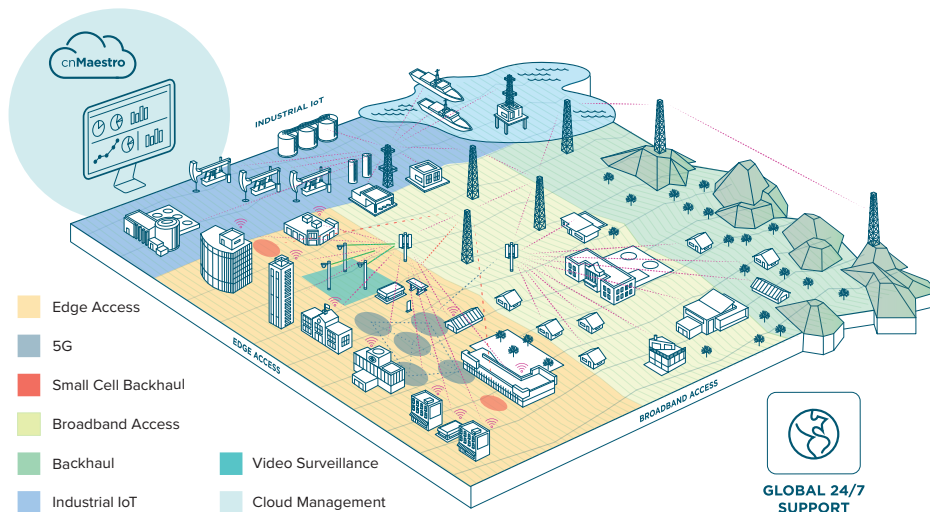
Telemedicine access for patients in remote areas



Less opportunity for COVID-19 to spread in healthcare settings



Shortened wait times for appointments due to telemedicine initiatives



Cambium Networks' gigabit wireless solutions enable municipal, enterprise and service provider operators to tailor connectivity to meet exact requirements and grow as needs evolve.

About SkyNet De Colombia

SKYNET DE COLOMBIA is an integrated telecommunications company with operations in Colombia. Founded in 1999, it has established itself in recent years as one of the fastest growing satellite operators in the country, thanks to its advanced technology and operating efficiency. They provide a wide spectrum of satellite solutions with their own operations and technology as well as through the representation and commercialization of solutions from other leading providers of satellite products and services worldwide.

About Cambium Networks

CAMBIUM NETWORKS empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.