

ISOSPOT: Wi-Fi HOTSPOT

Bridging the digital divide in an challenging environment

In greater Cotonou, ISOCEL will manage at least a thousand hotspots allowing residents and tourists to enjoy high-speed Internet connection at a very affordable price.

Today, there is not a hotspot network available in Benin. However, the number of Internet users is increasing. Most of them cannot afford to pay an Internet package that uses 3G/4G/LTE technology, because it is expensive and volume based.



Building a Wi-Fi hotspot network in Benin is very challenging especially because the power infrastructure is not very stable. Nonetheless, during the launching of the pilot project ISOSPOT, ISOCEL could feel the great potential of having a Wi-Fi network. Thousands of spectators with Wi-Fi enabled devices (tablets, smartphones, and laptops) were very enthusiastic to discover Internet packages at a very affordable price and unlimited.

I have used ISOSPOT. It is a very interesting offer. What I really like about the service is the fact that you can start surfing the Internet for an hour with only 100 FCFA. It is very inexpensive and the access is unlimited.

Briand Idossou

As a journalist, it is just extraordinary to have access to Internet at a very affordable price. I can now easily do some research for my topics thanks to the unlimited offer of ISOSPOT

Olivier de Souza

How do you build such infrastructure taking in account the complexity of the areas including the power issues? These are the challenges that we are facing.

Connecting the unconnected at anytime and anywhere

In order to cope with the growing number of users, we have designed a network that is capable of delivering Internet access to any form of Wi-Fi enabled devices (smartphone, tablet or laptop).



We have created a public local access network to cover an area of a several square kilometers. In the district of Fidjrossè, hundred micro-stations or hotspots were installed in electric poles at about every 100 meters. This gave us the ability to provide Internet access to every Beninese who has a Wi-Fi enabled device.

While we are not able to fully cover Cotonou, we will subsequently deploy in other areas of the economic center of Benin. Our main target will be venues, restaurants, hotels, hospitals and other recreational areas where people are used to gather for any events.

Providing excellent quality of service

To assure top efficiency and quality of service and experience, we have a dedicated team in charge of planning, designing, developing and implementing the Wi-Fi core network that is able to deliver true broadband service.

The public Wi-Fi hotspot service featured a fiber-to-the-pole backhaul circuit and some dual-band wireless access points, supporting speeds of up to 300Mbps. To cope with the potential number of users, high-density access points with special antennae came into play. This made it possible to minimize any interference between the access points.

In order to manage this infrastructure, ISOCEL has adopted a wireless access point management system. This management system provides network-wide visibility that allows us to optimize the Wi-Fi hotspot infrastructure and to deal with potential problems before they become service issues.

This project is the first phase of an extensive investment with as aim to build new access networks and to deliver broadband Internet to residential clients and businesses.

Broadband Internet through a Wi-Fi network

ISOCEL wants to bring fast, easy and secured Internet connection to every user. We highly value the performance of our Wi-Fi hotspot network as far as QoS and QoE is concern therefore a dedicated team of radio frequency engineering experts and a Network Operations Center work closely together to monitor the Wi-Fi network's performance.

Furthermore, we have dedicated teams that are gathering information and feedbacks from our end-users. We also have developed an online survey that allows us to view real-time feedbacks from our customers. The analysis of the feedback are immediately conducted and shared among concerned departments.

With greater scalability, enhanced capabilities, supporting new management information and greater levels of operational control, ISOCEL delivers the first HOTSPOT solution in Benin with broadband speed on an unlimited package at a cheaper price.

Internet for all

ISOCEL strongly believe that by providing citizens with Wi-Fi technology, it will help boost the economic activity and education system in Benin. According to a McKinsey & Company report, if the Internet achieves the same kind of scale and impact as the spread of mobile phones in Africa, GDP could account for as much as 10 percent, or \$300 billion, of total GDP while producing a leap forward in economic and social development.

Investing in infrastructure and providing the Beninese population access to high speed Internet at a lower cost is a factor of development. ISOCEL indirectly participates in the creation of an ecosystem that will enable the emergence of start-ups, corporations, entrepreneurs etc... Furthermore, other industries will also benefit from this revolutionary service.



Our mission is to provide excellent Internet access through a Wi-Fi hotspot network, anywhere, anytime and most important, at fraction of the cost.