



wavecom

communications engineering



# Case Study



## Wi-Fi indoor solution for Banif

Banif implements a Wi-Fi indoor solution for the Bank's main buildings, distributed in several geographic areas.

**BANIF**  
A força de acreditar



*"Banif is a Portuguese bank leader in the Autonomous Regions of Madeira and Azores, present in 16 countries and 4 continents."*



# Case Study

Banif

## Objective

Implementation of a Wi-Fi wireless solution to allow for mobility, quality, scalability and safety in information access.

## The challenge

The solution to be implemented would need a good control of radio resources and to ensure an access quality regardless of the place on which the customer is or the type of equipment that are used.

The solution control should be centralised and agnostic regarding the traffic type to be implemented, allowing for a facilitated growth without resizing the entire network.

The latency timing variation shall be reduced to its minimum in order to support voice or video traffic.

## The Solution

*“The implementation of the entire network was made from the start, within a period of 2 days, including cable routing, access point and controller connection.”*

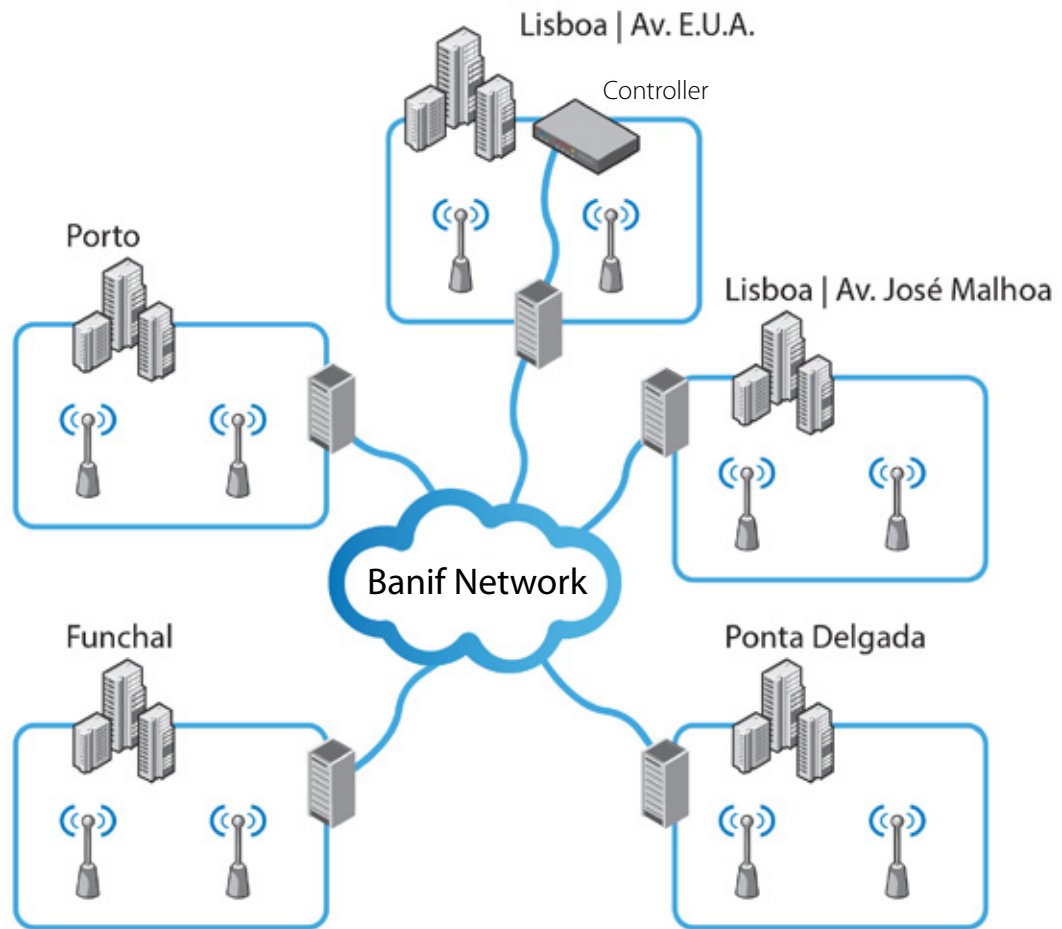
A solution that supports the Single Cell and Virtual Cell technologies was implemented, allowing thus a better control of the Wi-Fi solution radio resources.

Given that all the network operates in the same radio channel, it is possible add new services by using other radio channels, doubling or tripling the capacity. On the other hand, the increase of the network covered area becomes simple with the addition of more APs, without the need to radio resize as with other technologies.

Because of its Single Cell technology, Handoffs are eliminated, which becomes interesting whenever the traffic is very sensitive to latency timing variation, such as voice or video traffic.

The Solution consists of implementing a main controller in Lisbon and APs distributed by the Lisbon, Porto, Funchal and Ponta Delgada subsidiaries.

The implementation of the entire network was made from the start, within a period of 2 days, including cable routing, access point and controller connection.



## Final Comments



Banif is a Portuguese bank leader in the Autonomous Regions of Madeira and Azores, present in 16 countries and 4 continents.

With the Wi-Fi network allows an employee can now access the internal network, regardless of the place on which he/she is, and provided that he/she has the credentials and Wi-Fi coverage, thus increasing efficiency and profitability.

Safety is also ensured due to the advanced security standards and techniques that are currently in force.

The solution is run centrally, which allows the network manager to identify usage and equipment statistics.

Wavecom S.A. is an Engineering and Communication company, founded in 2000, highly specialised in wireless communication and unified communication solutions.



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#### About Wavecom:

Wavecom was constituted in 2000 and operates in three major areas: Wireless networks and Networking, Unified Communications and R&D.

Our core business consists of developing and integrating telecommunication solutions with a specialisation in radio technology and unified communication technology. Wavecom initiated its business as a specialised telecommunications integrator of Wireless solutions, extending its activity to the Unified Communications field.

Currently, Wavecom has 25 employees in Portugal and is also present in Cape Verde and Brazil. It is market leader in wireless connections in non-licensed band and created the biggest VoIP (open source) project in Europe.

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