

Wavecom - Soluções Rádio, S.A.
Cacia Park
Rua do Progresso, Lote 15
3800-639 AVEIRO
Portugal
T. +351 234 919 196
F. +351 234 919 191
wavecom@wavecom.pt
www.wavecom.pt



Case Study



CHON

Centro Hospitalar do Oeste Norte

“With our solution, we interconnect 3 hospitals at 180Mbps, with radio redundancy included at 90Mbps, with links supported in licensed band by ANACOM.”



wavecom

communications engineering

2000 | 2010 **10** years



Case Study

CHON
Centro Hospitalar do Oeste Norte

Centro Hospitalar do Oeste Norte

Centro Hospitalar do Oeste Norte (CHON) was created by virtue of Order no.83/2009, of 22 January, and comprises Alcobaça Hospital Bernardino Lopes de Oliveira (1890), Caldas da Rainha District Hospital (1967), Rainha D. Leonor Thermal Hospital, established in 1485 and S. Pedro Gonçalves Telmo Hospital in Peniche (1987).

Framework

As a result of the new reality and at the initiative of the IT and Communication Systems Department, it was necessary to provide CHON with a communication solution among its units that could meet their specific needs.

Identified needs

- Existence of an efficient data, image and voice transmission channel;
- Technology streamlining;
- Means streamlining, human resources and subsequent cost reduction;
- Service centralisation;
- Dynamics of health care provision.

Objective

Enable any user, regardless of his/her location within the CHON domain, to access the apps that are available in the Data Centre of Caldas da Rainha.

Solution

The need to save resources at the different levels lead to the connection of several hospitals throughout the country, many of them founded in Centros Hospitalares (Hospital Centres). The interconnection of the individual units is, nowadays, crucial for the functioning of several hospital services in a perspective of cost reduction due to the centralisation of units and to the information sharing among these.

“Both hospitals, Alcobaca and Peniche, at a distance of more than 20km in a straight line from the hospital of Caldas da Rainha, are interconnected at 180MBPS at a very competitive price.”

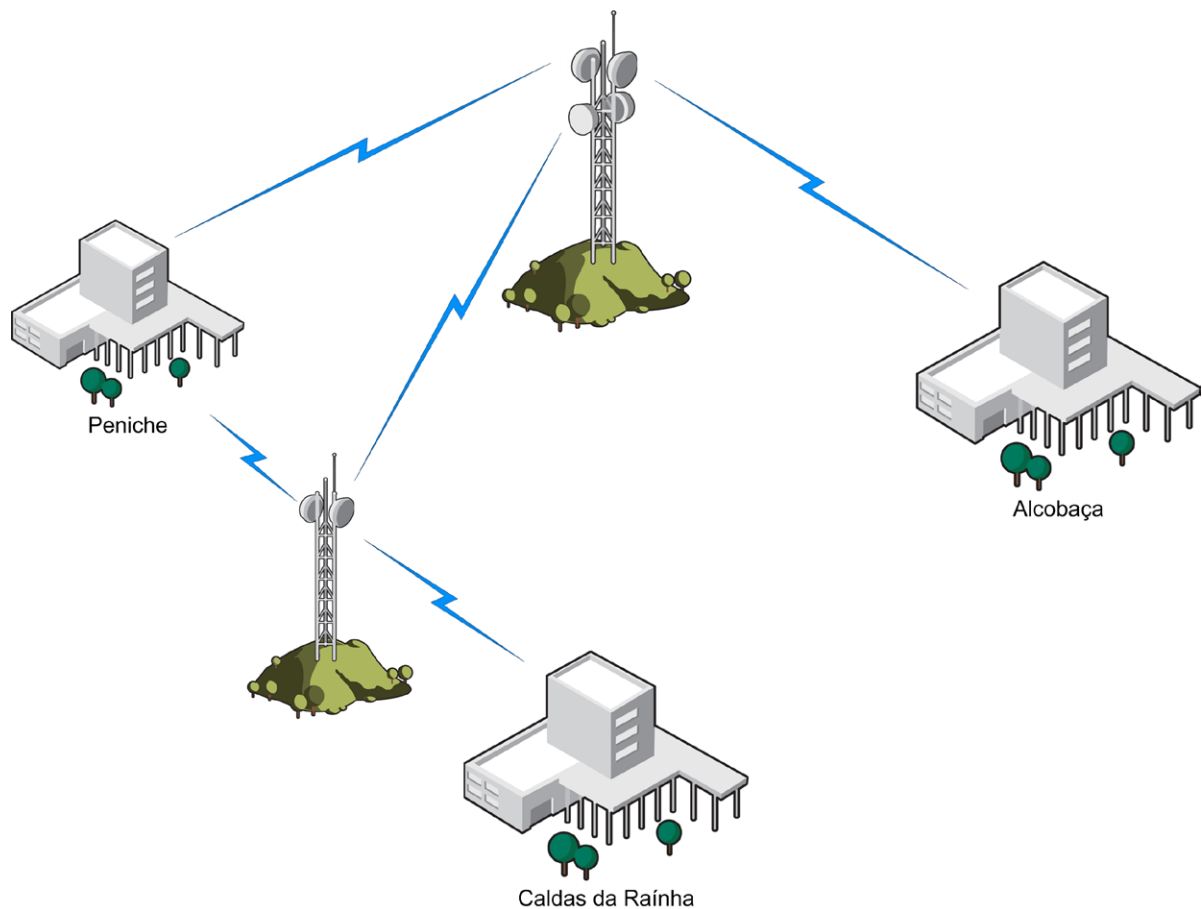
In this sense, the needs of Centro Hospitalar do Oeste Norte meet the solutions offered by GoWireless to the market. Specifically, we designed a solution for the full data sharing between Caldas da Rainha Hospital and Alcobaca and Peniche Hospitals.

The view line, a basic feature for the implementation of GoWireless solutions, does not exist between Caldas, Alcobaca and Peniche. Our technical staff went to these locations to perform the necessary tests and we able to conclude that, with two repeaters, we could satisfy our basic requirement.

We were told that the future needs of CHON would be around 100Mbps. So, we looked for manufacturers that could meet the requirements for the implementation: Debit, reliability and safety.

With our solution, we interconnect the 3 hospitals at 180Mbps, with a radio redundancy at 90 Mbps, with links supported in licensed band by ANACOM.

Both hospitals, Alcobaca and Peniche, at a distance of more than 20km in a straight line from the hospital of Caldas da Rainha, are interconnected at 180MBPS at a very competitive price compared to other technologies, without losing its basic features: reliability and safety.



Internal challenge | Operational

The presented and installed project has wireless connections in licensed band with a band width of 90Mbps plus 90Mbps which allow the customer to ensure public services quality, continuity and efficiency.

The challenge faced by the teams is related to the Repeaters operation, given their characteristics:

- Towers installed in areas with difficult access;
- Abandoned areas which are liable to be vandalised and to have power blackouts;
- In addition to the above, this system needs to be functional within 4 weeks.

Internal challenge | Commercial

Wireless technologies are, generally, seen with mistrust by the decision makers. We are systematically confronted with the difficult task of instilling confidence in our solutions. After using, in practice, our solutions that initial fear usually disappears.

Project's evaluation

The project included:

- Installation of facilities in 3 Hospitals and 2 Repeaters;
- 4 calendar weeks of work;



Wavecom - Soluções Rádio, S.A.
Cacia Park
Rua do Progresso, Lote 15
3800-639 AVEIRO
Portugal
T. +351 234 919 196
F. +351 234 919 191
wavecom@wavecom.pt
www.wavecom.pt

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.

Copyright © 2011 Wavecom, S.A. All rights reserved | www.wavecom.pt

