



wavecom

communications engineering



Case Study



AdRA - Águas da Região de Aveiro

100 Mbps Radio network connection

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AdRA – Águas da Região de Aveiro



With this project, AdRA intended to integrate the local municipal systems, in order to maximize the economies of scale, as well as to integrate the public systems for water supply and sewage to maximize the structure. For this purpose, Wavecom recommended a 100Mbps radio interconnection, to meet the following requirements:

- Competitive investment costs;
- Low operational costs;
- Large bandwidth;
- Inter-municipal coverage;
- Maintenance included.

Background

“The operational centres must have access to all information, in real time, in order to be able to take immediate action, and that is only possible with a proper communications network.”

AdRA – Águas da Região de Aveiro is the result of a partnership between the Government and the Municipalities to make a profitable use and manage the municipal systems for water supply, sewage and urban solid waste. This synergy includes the following Municipalities: Águeda, Albergaria-a-Velha, Aveiro, Estarreja, Ílhavo, Murtoza, Oliveira do Bairro, Sever do Vouga and Vagos.

In this scenario, the needs of AdRA include the interconnection of their sites, namely shops, water reservoirs and operational centres. Considering that the billing activity is centralized in the headquarters, it becomes a vital factor of efficiency and productivity the existence of a permanent on-line connection to communicate with the shops.

Regarding the reservoirs, the automation and the centralized control of all functional operational data are additional factors for efficiency and cost reduction, regarding, in particular, the team travelling, which will not be needed anymore.

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The solution

“The presented and implemented project includes Wireless connections, in unlicensed band, with a bandwidth over 100Mbps.”

In order to ensure the communication between the different units, Wavecom presented a solution based on a private network, implemented with a microwave transmission system, with broadband, that includes all the AdRA buildings, with the guarantee of total systems compatibility and, thus, bringing numerous technological, operational and financial benefits.

The presented and implemented project includes Wireless connections, in unlicensed band, with a bandwidth over 100Mbps.

The project in numbers

This project included:

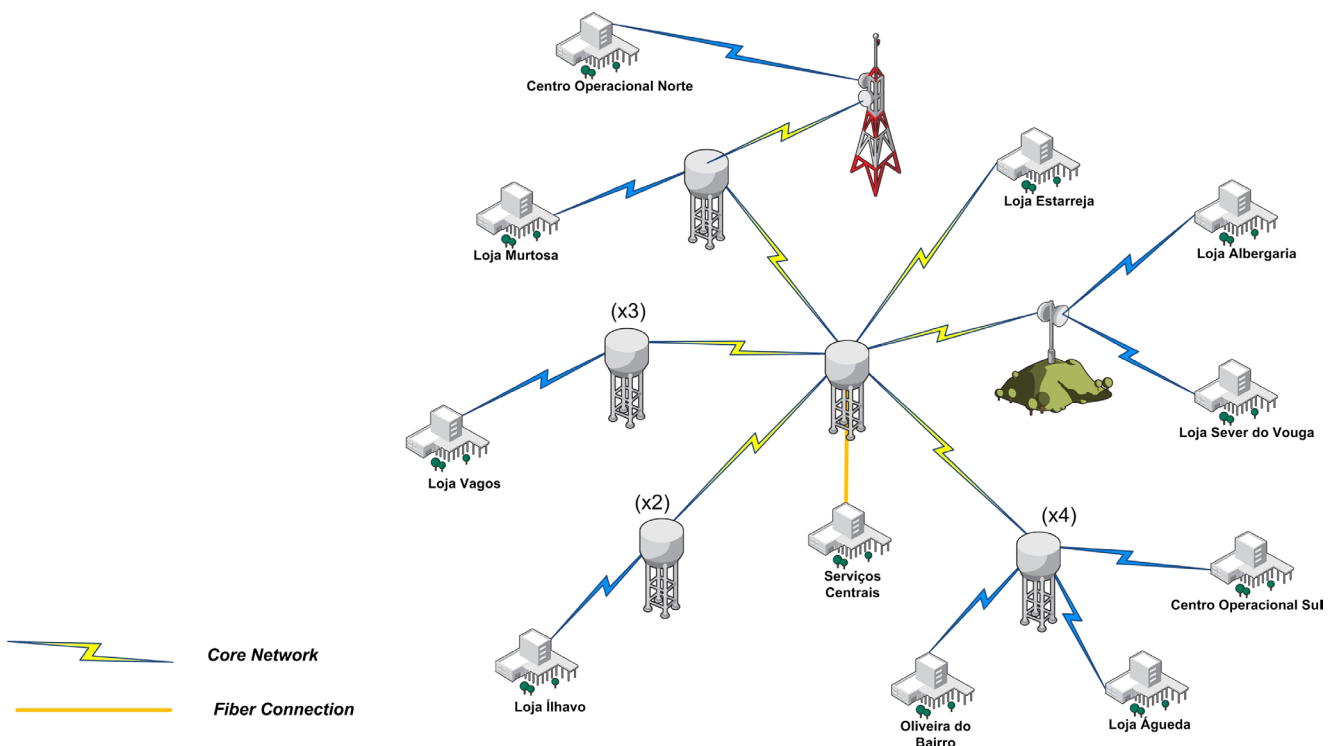
- 24 100Mbps Wireless links (48 Radios), in total;
- Implementation in 15 working days;
- 134km of Interconnection.

Associated services

It allows the Client to ensure the quality, continuity and efficiency of public services of water supply and sewage, in order to protect public health, the welfare of population, environment and the economic and financial sustainability.

Project evaluation

According to Eng. Brás Duarte, project sponsor at AdRA, “this is an investment that will provide not only an increase in functionalities, but also indirect gains, in addition to the fact that the amortization of this investment should occur in less than 4 years.”





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About Wavecom:

Wavecom was established in 2000 and has three core fields of activity: Wireless Networks and Networking, Unified Communications and R&D. Our core business consists of the development and integration of telecommunications solutions, specialized in Radio and Unified Communications technologies. The company started its activity as a telecommunications integrator specialized in Wireless, expanding then its activity to the Unified Communications field. In Portugal, the company has 29 employees. It is also present in Cape Verde and Brazil. Wavecom is the market leader for wireless connections in unlicensed band and has developed the major VoIP project (Open Source) in Europe.

