

## Customer Partner Story

**Customer:** Alfoz de Quintanadueñas

**Area:** Spain

**Solution:** BreezeACCESS® VL and BreezeACCESS Wi<sup>2</sup>

**Application:** Internet Access

### Our Partner

NextiraOne is Europe's leading expert in communication services

### The Challenge

To bridge the digital divide and provide Internet access and wireless broadband to the residents of the remote towns of Quintanadueñas, Arroyal and Villarmero

### The Solution

Combined WiMAX™ and WiFi solution with Alvarion's BreezeACCESS VL and BreezeACCESS Wi<sup>2</sup>

### The Result

- Internet access to residents of the district
- Fast and cost-effective connectivity with minimum delay
- The ability to provide additional services such as voice and video on the flexible network



**nextiraOne**  
THE COMMUNICATIONS EXPERTS

**alvarion**  
Your Open WiMAX Choice

## Alfoz de Quintanadueñas, Spain

Alvarion's Wi<sup>2</sup> solution brings Internet access and broadband connectivity to residents in remote Spanish towns

“ *The Municipal Corporation of the Council of Municipalities of Alfoz de Quintanadueñas is aware that the development and growth of rural areas depend to a great extent on access to new technologies such as Alvarion's Wi<sup>2</sup> solution.* ”

Gerardo Bilbao Leon, Mayor-President of the Council of Municipalities of Alfoz de Quintanadueñas

### About Alfoz de Quintanadueñas

Alfoz de Quintanadueñas is a municipality located in the province of Burgos, Castile and León in Spain. It covers an area of 41 square km and the Council of Municipalities is headed by the town of Quintanadueñas which is populated by approximately 1,000 inhabitants. Arroyal and Villarmero, another two small villages in the municipality, have a small population of approximately 100 inhabitants each. Alfoz de Quintanadueñas is considered to be one of the municipalities in Burgos with the highest growth rates and future prospects.

### About Our Partner NextiraOne

Headquartered in Paris, NextiraOne is Europe's leading expert in communication services. The company which was established in 2002, designs, installs, maintains and supports communication needs ranging from voice, data and video to mobility, security and applications. Employing 4,700 people across Europe including more than 2,800 qualified experts, NextiraOne has years of experience in digital communication projects, empowering local public administrations by providing them with better and greater access to information.

### The Challenge

The poor Internet connectivity with limited bandwidth in Quintanadueñas and the lack of infrastructure in the small towns of Arroyal and Villarmero, encouraged the Council of Municipalities of Quintanadueñas, who is the district's Internet service provider, to seek a cost-effective, easy-to-deploy wireless broadband solution to bridge the digital divide and provide Internet access and broadband connectivity to residents of the district.



Wi<sup>2</sup> antenna in Alfoz de Quintanadueñas

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[www.alvarion.com/company/locations](http://www.alvarion.com/company/locations)

“ *The main goal of the project was to provide low-cost Internet access to the inhabitants of the various districts, not only externally but also to the home, without having to deploy cables or routers.* ”  
Juan Maldonado, Marketing Manager, NextiraOne Solutions

## The Solution

After issuing a public tender, the Council of Municipalities of Quintanadueñas chose system integrator NextiraOne to implement a wireless network for the district. NextiraOne selected Alvarion's combined WiMAX and Wi-Fi mesh solution because of the company's experience in wireless outdoor networks and proven success in implementation. After conducting a study on the radioelectric spectrum in the area to determine the most suitable location for each device and select frequencies for providing the best transfer and transmission rates, NextiraOne decided to implement a pre-WiMAX point-to-multipoint solution using the BreezeACCESS VL and BreezeACCESS Wi<sup>2</sup> product lines. In addition to providing full coverage to the three districts, the Alvarion solution also features a broadband management system, a captive portal and all the required network electronics.

## The Result

Alvarion's network provides an ideal answer to the municipality's needs, bridging the digital divide and enabling the residents of these remote towns to benefit from low-cost broadband connectivity and services which were previously unavailable. Furthermore, Alvarion's solution boasts minimum delay time which facilitates the provision of real time solutions such as voice and video in addition to the existing data communications.



*Alvarion's Wi<sup>2</sup> solution*



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## About Alvarion

Alvarion (NASDAQ: ALVR) is the largest WiMAX pure-player with the most extensive WiMAX customer base and over 250 commercial deployments around the globe. Committed to growing the WiMAX market, the company offers solutions for a wide range of frequency bands supporting a variety of business cases. Through its OPEN WiMAX strategy, superior IP and OFDMA know-how, and ability to deploy end-to-end turnkey WiMAX projects, Alvarion is shaping the new wireless broadband experience.