



Ultra fast internet with 300 Mbps speeds to serve rural and mountainous areas

EOLO implements the largest ultra-broadband wireless residential network across Italy using Intracom Telecom's WiBAS G5™.

The Customer

EOLO SpA was founded in 1999 in Italy. Today, it is a telecommunication operator and a market leader in internet connectivity services, VoIP telephony and added value services. EOLO is leading the wireless broadband business, thanks to the wholly owned EOLO network. EOLO is the high-speed independent wireless network that delivers internet access not only in towns and villages but also in rural areas where the Digital Divide exists.

EOLO's infrastructure, which is totally independent from other Italian telco companies, uses wireless radio repeaters that transmit the signal throughout the national territory of Italy. Their services address both domestic and business markets. Business sector broadband speeds reach up to 1 Gbit/s. EOLO's headquarters is located in Busto Arsizio, North Italy, housed in a 20,000 sq.m. campus with over 600 employees.

The Challenge

EOLO's mission is to offer ultra-broadband speeds on a fixed wireless network even in the most remote areas and support sustainable and inclusive development in Italy. For this reason, the company acquired, on a national scale, the usage right for 224 MHz at the 28 GHz spectrum band, which is ideal due to transmission and capacity characteristics. EOLO expands its geographical coverage and subscriber base in suburban and rural areas, impacted by the digital divide. These areas are the most challenging because of lack of infrastructure that can support high capacity, services.

EOLO is the first operator worldwide to use the 28 GHz frequency on such a massive scale to connect homes and SME at 5G speeds across Italy. From a social point of view EOLO is dedicated towards making Italy more competitive in Europe and improving its current ranking related to economic and digital development, by providing a cutting-edge infrastructure and expertise.

Case Summary

Customer

- EOLO SpA

Industry

- Telecommunications

Region

- Italy

Challenge

- To offer gigabit services through software upgrades and achieve download speeds equivalent to 5G
- To expand its geographical coverage and subscriber base
- To assist Italy becoming more competitive in Europe.

Solution

- WiBAS™ G5 (28 GHz Multipoint system)

“Building a reliable and future-proof network requires determination and a careful planning that EOLO and Intracom Telecom have carried-out together over the past 6 years of collaboration. With its mmWave FWA network, EOLO serves residential, businesses and wholesale customers. EOLO’s mission has always been to guarantee access to an ultra-fast, high-performance and resilient network to all Italian families and businesses, reaching the most remote areas of the country, creating value for the territory in which it operates. Intracom Telecom showed flexibility and commitment in supporting us in our journey. Thanks to its technological expertise, Intracom Telecom engineers have enhanced their product with new features allowing for a continuous improvement of our offers.”

Guido Garrone
CEO, EOLO

“We are proud to be trusted once again by EOLO and support them in becoming the top fixed access provider in Italy as well as a global reference for their connectivity offers to residential and business customers. We look forward to implement this new expansion and connect our brand name, as the key technology partner, with EOLO’s success.”

Kartlos Edilashvili
Acting CEO, Intracom Telecom

The Solution

EOLO has been using the WiBAS™ platform since 2017 fueling its success in providing its subscribers with high quality ultrabroadband Internet connection. This first PtMP deployment enabled EOLO to offer internet speeds of 100 Mbps to its subscribers whereas competitors could only achieve 30 Mbps with their FWA network. Throughout the years the FWA network has been enhanced, and Internet speeds increased gradually to 200 Mbps and 300 Mbps.

Today the 5th Generation WiBAS™ G5 dual-BS base station is used at 28 GHz as part of a multimillion expansion investment program. WiBAS™ G5 dual-BS base station has been selected following a lengthy testing at the laboratory and the field satisfying a long list of technical criteria. With the advanced features of WiBAS™ G5 dual-BS base, EOLO aims at staying at the top of Italian FWA service providers offering a portfolio of high-quality, ultra-broadband services to residential and SME subscribers. The WiBAS™ G5 dual-BS interoperate with Intracom Telecom’s Connect and Connect+ terminal stations already installed and operated by EOLO. Thanks to novel technologies, such as MU-MIMO, it offers total aggregate capacity of more than 2.6 Gbps.

Intracom Telecom’s WiBAS™ G5 platform can be leveraged by operators to build gigabit services through software upgrades and achieve download speeds equivalent to 5G. The provisioning process of the device is performed via uniMS™ SON Gateway, a software platform accelerating the service activation by automatically discovering terminals and instantly provisioning the subscription profile.

About Intracom Telecom

Intracom Telecom is a global telecommunication systems and solutions vendor operating for over 40 years in the market. The company has become the benchmark in fixed wireless access and it successfully innovates in the 5G/4G wireless RAN transport and small-cell SON backhaul international arena. Intracom Telecom offers a comprehensive revenue-generating software solutions portfolio and a complete range of ICT services, focusing on IoT, SDN/NFV, Big Data analytics & data-driven intelligence, and Smart City solutions. Moreover, it addresses the Energy & Utilities industry, emphasizing on smart metering and end-to-end IT solutions. Intracom Telecom is also active in the defense systems sector providing security integrated systems for critical infrastructure protection and border surveillance. The company has extensive know-how and a proven track record in the market, serving fixed and mobile telecom operators, public authorities and large public and private enterprises. Intracom Telecom maintains its own R&D and production facilities, and operates subsidiaries worldwide.

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