Umbria International Airport's Wi-Fi Takes off with cnPilot™

"The new, unlimited Wi-Fi service represents another step in the continuous improvement of the services that we provide to the customers of the Umbria Airport to ensure that their travel experiences will always be unique."
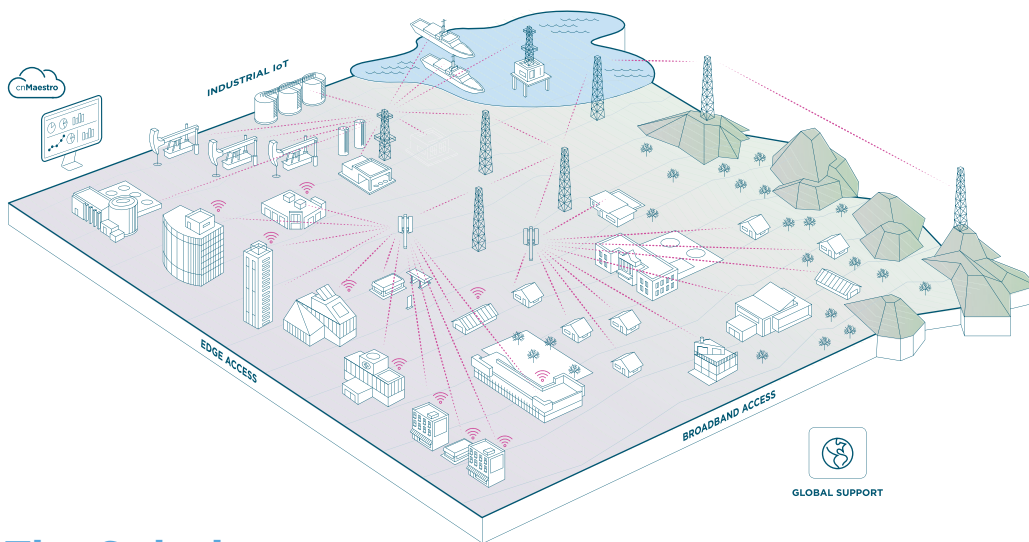
– UMBERTO SOLIMENO, CEO, SASE

Overview

IN ANY TYPE OF SERVICE ESTABLISHMENT, the presence of Wi-Fi connectivity is absolutely essential – from the hospitality sector of hotels and campgrounds to the retail environments of malls. The multi-purpose context of an airport is no exception. Travelers waiting to board or disembarking from their flights expect ubiquitous access to use social media, check e-mail, or stream entertainment.

More than 350,000 travelers pass through Umbria International Airport in Perugia, Italy, every year. Umbria had an ASDL line infrastructure and Wi-Fi connection for both in-house and guest use, but it's limited power and coverage was struggling to satisfy the demand. Additionally, the authentication procedure made access cumbersome.

SASE, the company managing the airport's connectivity infrastructure, realized the necessity to respond properly to the contemporary needs of users and passengers, and contracted Tecnoadsl to design and implement a powerful, reliable, and easy to manage Wi-Fi infrastructure.
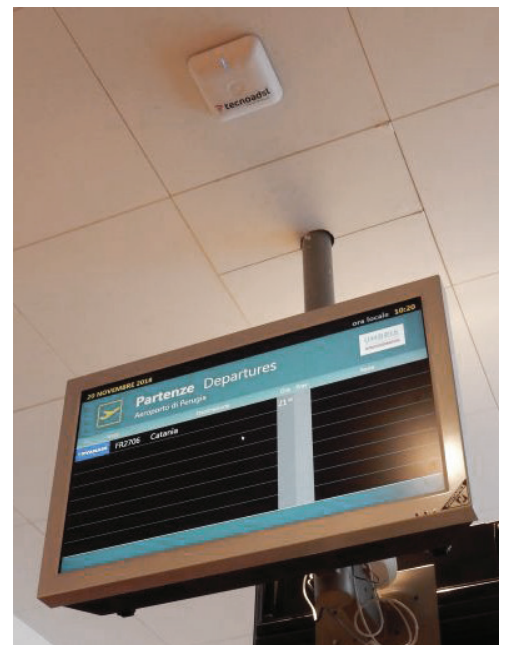

cnPilot e500
• Supports up to 256 clients
• 2.4 & 5 GHz
• Supports 16 SSIDs

- cnPilot™ offers powerful connectivity
  that defies environmental obstacles
  and obstructions

- cnMaestro empowers network
  operators to manage their networks
  with full end-to-end visibility from a
  single pane of glass

The Solution

TECNOADSL ASSESSED THE AIRPORT'S NEEDS and selected Cambium
Networks solutions, high performance connectivity products designed to
provide all the functionalities networks demand today: high density, MIMO
(multiple-input and multiple-output), Multi-User environment, dual bands
(2.4 GHz and 5.0 GHz), roaming, and cloud management.

The initial phase of the project provided seamless coverage of user areas –
arrivals and departures, baggage claim, gates and waiting areas, retail and
dining promenades, and external parking for buses, taxis, and car rentals.
In this first phase, the characteristics of the airport structure allowed
complete Wi-Fi coverage using a small number of access points. cnPilot™
e600 802.11ac wave 2 access points were installed throughout the indoor
coverage area, with the outdoor-specialized cnPilot e500 installed for the
exterior areas.

Results

UMBRIA'S NEW NETWORK IS MANAGED FROM THE CLOUD by Cambium Networks' cnMaestro™ platform, which
enables end-to-end network visibility, zero-touch configuration and onboarding of devices, and rapid pin-point
troubleshooting that streamlines operation and reduces the need for maintenance.

Passengers can now sign in with the simplicity of social login or email authentication, to enjoy 10 Mbps connections that
easily support any application. To continue Umbria's connectivity progress, the next phase of expansion will include a
dedicated implementation for soon-to-be-open airport areas.