Cambium Networks™

Wi-Fi Connectivity in Student Housing: Enhanced Bandwidth and Simplified Management with Cutting-Edge Solutions

Equitix Studentati Italia Srl, a project company of the British fund Equitix, specializes in the integrated management and maintenance of student residences. Recognizing the importance of high-quality connections in student housing, where residents heavily rely on the internet for both study and social activities, Equitix decided to modernize and enhance the networks of two student residences in Turin: Residenza Borsellino and Residenza Villa Claretta

The design and implementation of the new infrastructure were entrusted to **Soleto SpA,** a system integrator specializing in telecommunications, electrical systems, energy efficiency, and technical support services.

The Challenge

The existing setup was a wired system with a fast Ethernet LAN point in each room and study hall, along with a few access points installed in common areas. The challenge was to provide Wi-Fi connectivity in all student areas, including rooms, common spaces, dining halls, study rooms, gyms, recreational rooms, and outdoor gardens. This project involved replacing all existing LAN switches, upgrading and enhancing the APs in common areas, and implementing new APs in the rooms.

The Solution

Given the needs of the new infrastructure, the choice fell on Cambium Networks solutions. With the need to replace all equipment, a completely new addressing and configuration plan was implemented. From the arrival of the products, the deployment was relatively quick, taking about 45 days in total. New switches were installed in parallel with the existing ones, activating the new switches per area along with the installation of access points for that area. Special attention was required as the same LAN port (the only one available) used by students was utilized to connect the APs in the rooms. By working area by area, the goal was to minimize network downtime. The products used included:

• 45 Cambium EX and TX series switches
• Over 700 access points in total, including e510 for outdoor areas, e425H wall plates for the rooms, and XV2-2 for other indoor areas.

The entire infrastructure is controlled and managed through the cnMaestro cloud platform.

The Results

The new Wi-Fi network is accessible to all student residents. The two residences collectively have over 700 rooms, with approximately 800 students potentially active simultaneously. The new infrastructure ensures a fast internet connection, with data rates measured during testing up to 0.9 Gb, and is consistently available

"The wireless infrastructure installed by Soleto has fully met our needs for continuous improvement of our facilities, offering students connectivity that meets their needs wherever they are within the premises," commented *Giuseppe Scianti, CEO of Equitix.*

About Cambium Networks

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies the management of Cambium Networks' wired and wireless broadband and network edge technologies, allowing customers to focus more resources on managing their business rather than the network. We deliver connectivity that just works.

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