Uncompromising Connectivity for a Digital Transformation

"We gained more control over the entire company network with monitoring systems that enable full overview of any problems without wasting time looking for the fault."

- ANDREA ANTOLINI, IT MANAGER, SACSM

PTP 450b
- Up to 300 Mbps in a 40 MHz channel
- 4.9-5.925 GHz

cnPilot e410
- 802.11ac Wave 2 2.4 GHz
- 2x2 MIMO

Overview

SACSM IS AN INDUSTRIAL SUPPLIER in San Marino, the small state encircled by Italy's Rimini Province, that deals with the production of steelwork and weighing, bagging, and palletizing systems. As a growing company in the process of updating operations to optimize efficiency, reduce waste, and increase margins, SACSM realized that its communications infrastructure was insufficient to support the applications that would enable its expansion goals – voice, video surveillance, data, inventory control, and more.

SACSM needed to not only connect all of the rooms in its administrative offices, but also defy physical obstacles throughout the warehouse area – shelving, storage areas, and machinery that inhibit the automatic material tracking system's transmissions – to cover the vast interior expanses reliably. Both of SACSM's manufacturing and warehouse facilities, separated by 6.5km, needed to be interconnected to support data and Voice over IP (VoIP) applications.
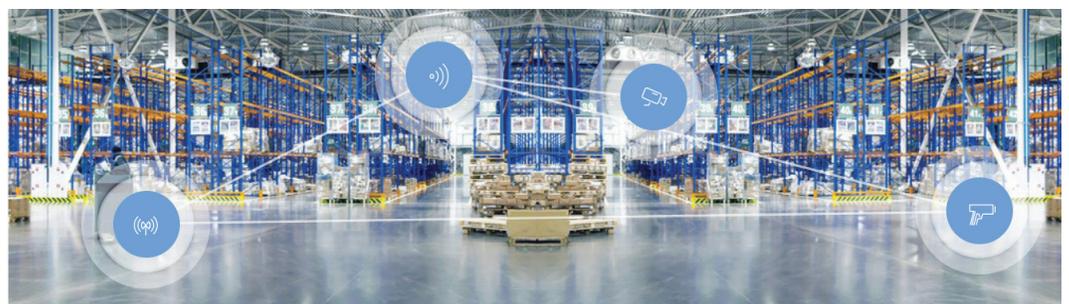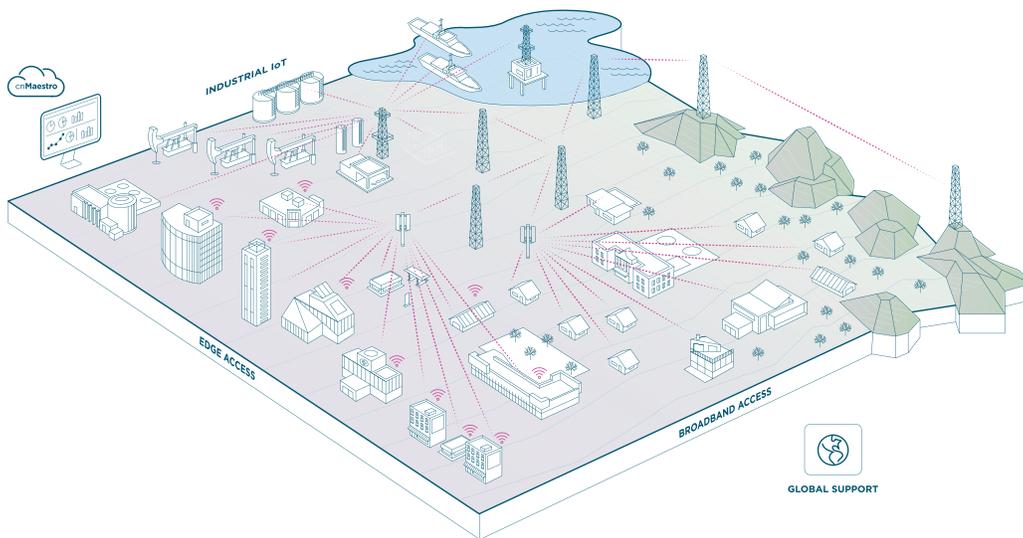
Solution

TO FACILITATE ITS NETWORK UPGRADE, SACSM engaged a local system integrator to analyze the issues and formulate a plan. Eurocom Innovazione, a Riccione based provider of business and residential services, selected Cambium Networks products to develop the wireless network, integrating industry-leading products for SACM's diverse set of requirements.

THE CAMBIUM NETWORKS DIFFERENCE

Before: <20 Mbps

After: Symmetrical 50 Mbps

Cambium Networks technology delivers high capacity with fast and easy installation

Best Practices

A robust wireless network empowers any industrial IoT application, offering enterprises unprecedented operational

After the necessary site visits and tests, Eurocom designed a network based on Cambium Networks infrastructure and management software, laying out a configuration not only capable of meeting the existing needs efficiently, but that can also scale easily in anticipation of further future growth.

Cambium Networks PTP 450 with non-line-of-sight (nLOS) capability was used to connect the separate structures, with cnPilot™ Enterprise Indoor e410 access points delivering seamless coverage within the offices and warehouse.

Results:

SACSM IS GROWING WITH CONFIDENCE in its mission critical network – with IP surveillance, VoIP telephony, machine control, and guest connectivity supporting its digital transformation.

IP based networks, IOT applications, and digital systems are increasingly standard across every enterprise. Cambium Networks wireless fabric provides user-friendly, high capacity, and RF aware Wi-Fi, Point-to-Point, and Point-to-Multipoint solutions that deploy rapidly and offer the highest data rate per Hz (Hertz) in the industry (refers to 450m). To seamlessly integrate all components with a single pane of glass view, cnMaestro™ controller can be used from the Cambium cloud, or installed on-premises for secure, data center-based network management.

Ask us how wireless fabric from Cambium Networks can transform your business too.