



EDGE ORCHESTRATION FOR SMART WORKPLACES

About CTHINGS.CO

CTHINGS.CO®

At CTHINGS.CO, we are pioneers in Edge Orchestration and IoT technology. Our innovative Orchestra Platform paired with Edge IoT Gateways and Connectivity Cards enable real-time data processing, reliable connectivity, seamless integration, and powerful insights to drive efficiency and sustainability across various sectors. From smart cities to Industry 4.0, we empower organizations to embrace the future of technology with scalable, adaptable, and data-driven solutions.

About BlueUp



BlueUp is an innovative SME founded in 2014, is today Italy's leading reference for Bluetooth Low Energy (BLE) technologies applied to the Internet of Things (IoT). Through continuous research and development, the company has successfully established itself both nationally and internationally. BlueUp develops and produces certified tags and beacons supporting the main market standards, and develops and provides advanced RTLS (Real-Time Locating Systems) solutions for identification, localization, tracking, and distributed monitoring applications.

The Challenge



The organization needed a clearer way to understand how office spaces were actually being used - who was present, how people moved between areas, and where they spent time. But the available **information was fragmented across manual checks, disconnected systems, and assumptions, making it hard to build an objective, real-time view of space utilization and movement flows.** Without structured, reliable data, optimizing resources, reducing wasted space, and making measurable operational improvements was difficult.

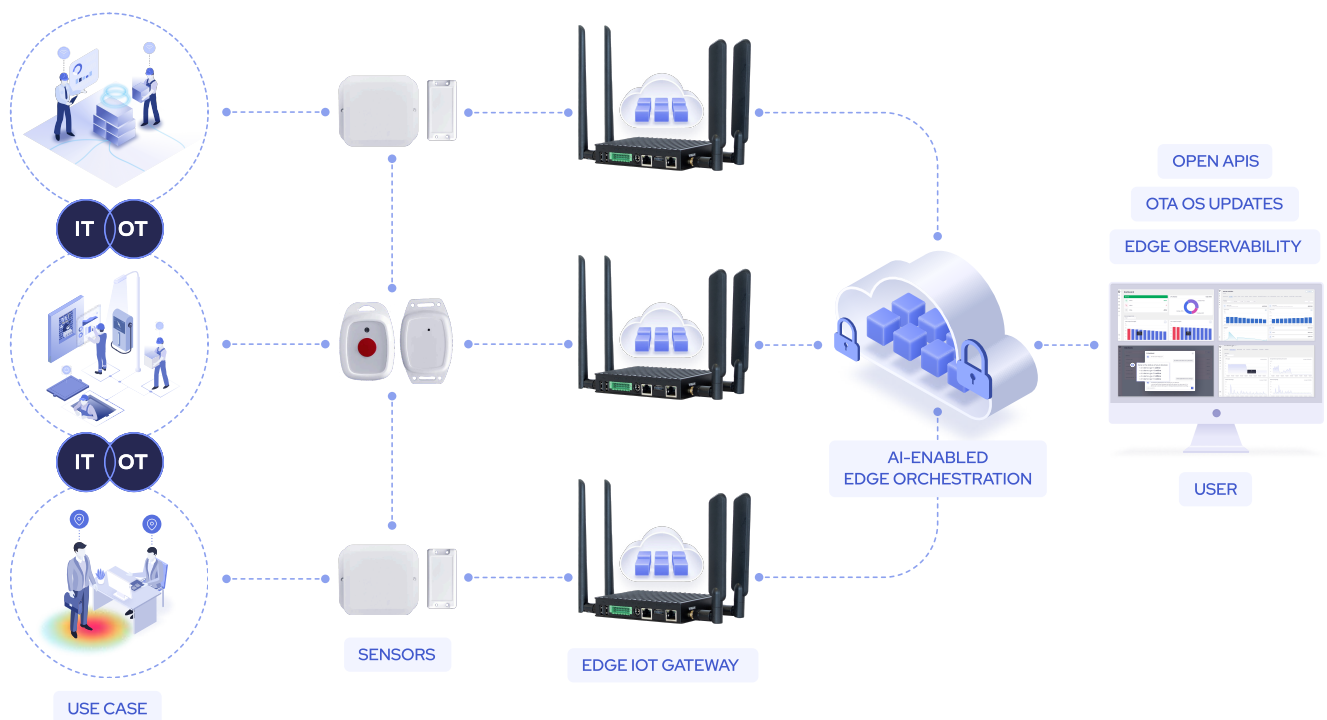
The Solution



BlueUp deployed certified **BLE tags, beacons, and Wirepas-mesh sensors** across the office, associating devices with people to capture presence, movement, and environmental signals in a non-intrusive way.






CTHINGS.CO's **Orchestra** secures and orchestrates these data streams end to end, combining embedded zero-trust controls with AI-powered operational intelligence and managed edge processing through **Edge IoT Gateways.**

The solution provides **real-time visibility into presence, movement flows, and dwell times,** while also capturing **environmental conditions** (temperature, humidity, pressure). It also **scales easily** from a single site to multiple offices by **simplifying onboarding, fleet management, and updates,** so improvements can be deployed consistently across distributed locations.



The Result



-  **20–25% increase in office space utilization** through data-driven reallocation
-  **Up to 30% reduction in idle or low-use areas**, enabling more efficient layout planning
-  **Around 15% improvement in overall operational efficiency** by identifying bottlenecks and congestion
-  **Significantly faster decision-making** with real-time and historical insights replacing manual surveys
-  **Unified, secure edge orchestration with Orchestra**, making workplace optimization scalable and repeatable across locations.

By integrating BlueUp IoT devices – including environmental sensors and smart tracking solutions – with advanced AI-enabled Orchestra Platform, we are able to deliver even more robust, interoperable and scalable connectivity solutions to customers. This collaboration strengthens our shared vision of end-to-end IoT, where reliable sensors, intelligent connectivity, and real-time data analytics come together to enable advanced use cases across different sectors.



ALESSIO CUCINI

BlueUp | Founder & CEO



By utilizing BlueUp's advanced RTLS sensing with secure edge orchestration and AI-driven intelligence, we're enabling businesses to move from fragmented data to real-time, decision-ready visibility into how spaces are used.



ŁUKASZ BALAS

CTHINGS.CO | Chief Commercial Officer



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