



ON Semiconductor®

Blyott Case Study

RSL10-based Beacon with Indoor Localization Tracks Essential Hospital Equipment

Summary

Application	Location	Contracting Agency/Customer	Deployment	ON Semiconductor Products Used
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Solution

Tatwah, an ON Semiconductor® technology partner, equipped Blyott with an ON Semiconductor Bluetooth Low Energy solution that provides extended battery life – the RSL10 System-in-Package (SiP). Blyott selected Tatwah's RSL10-based beacons due to their small form-factor, ultra-low-power capabilities, and the ability of the IP67 tags to meet the stringent sterilization requirements.

Blyott's solution brings together several technological trends ubiquitous Bluetooth through Wi-Fi access points with built-in Bluetooth LE support, small, inexpensive Bluetooth LE sensors with long battery life, the Internet of Medical Things (IoMT) through wireless (bio) sensors for live monitoring, and scalable cloud computing. The solution consists of four components: Bluetooth sensor, Bluetooth locator, a cloud-based platform, and customer-accessible web and mobile applications with APIs to connect with client-based platforms.

Result

The affordable RSL10 Bluetooth Low Energy-enabled MCU-based tags provided the perfect solution, featuring long battery life in a small form-factor with waterproof IP67 protection that healthcare facilities like AZ Maria Middaleres (AZMM), a 600-bed acute-care hospital in Ghent, Belgium, critically require from an asset management solution. "At Maria Middaleres, but in fact at every hospital, a lot of assets are used. Medical devices, non-medical are used, but sometimes the...staff can't find them, so a lot of time is spent. We were already looking, for a couple of years, for a good solution, a simple solution," confirmed Peter Dierickx, IT & Director of Facilities at AZMM.

The Blyott solution typically results in the prevention of inventory hoarding and theft with a savings of 10-20% of the annual medical assets budget and staff efficiency gains – a nurse can typically spend up to an hour a day searching

