

LoRa Beacon

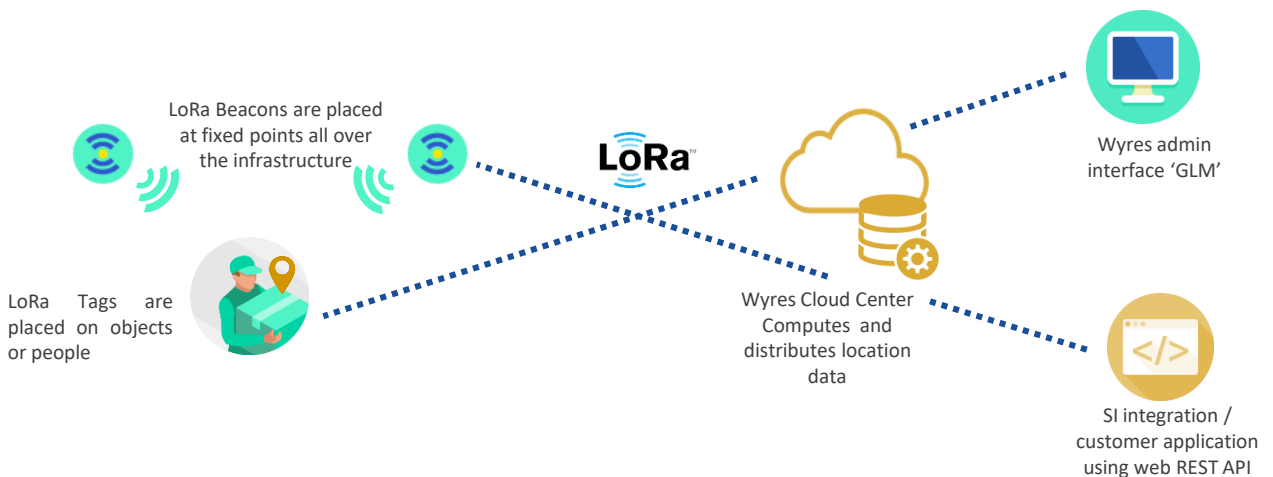
Datasheet



Wyres provides an indoor geolocation solution based on cloud fusion of multiple technologies: LoRaWAN, LoRa Beacons and BLE Beacons. These technologies can be deployed as required throughout a site. For example, an overview of LoRa Beacons is shown below.

Overview of Wyres geolocation system

LoRa Beacons provide fixed points of reference for the system, installed on walls or pillars of buildings. They enable the positioning of the mobile LoRa Tags. LoRa Beacons broadcast their ids by radio, and the LoRa Tags send this information to the Wyres Cloud Computing center via a LoRaWAN Network. Location and environmental data is then available through Wyres admin interface or through a set of REST APIs.



Description

LoRa Beacons are connected devices enabling the LoRa Tag geolocation thanks to backend processing of the RSSI radio signal.

They are deployed on the site in a grid with 20 – 40 meter spacing which gives a geolocation accuracy of 5 to 10 meters.

More than a simple reference, Wyres Beacons are also smart connected devices, with basic environmental monitoring built-in and modularity to add sensors.

Benefits

- Easy deployment and settings
- Designed for large industrial sites thanks to the communication range allowed by LoRa radio
- LoRa technology means no interference with Wifi and other RF systems already present.

Key Features

- Fully wireless and battery powered LoRa beacon with 5 years autonomy
- LoRaWAN 1.0/1.1 compliant
- LoRa Tag geolocation with 5 to 10 meters accuracy
- Equipped with sensors to monitor environmental data (temperature, light, pressure)
- Extensible with additional sensors
- Firmware update Over The Air (FOTA)
- Monitoring of battery level