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Case Study

Positioning System: BLE, GPS and LoRa

Project/Client Details

- Architecting of solution and PoC development
- Middle-East systems company

Design Scope

- Design a system which can be used to detect assets in the outdoor environment.
- The solution needs to be low power and should be able to track over a wide range

Highlights

- Low Power, with an accuracy of 10m
- Beacon updates its GPS coordinates only on power on or when accelerometer detects a change in location.
- Beacons can optionally be programmed with location using an Android app over BLE.
- Asset to be tracked has a Tag that receives location transmitted by the beacons and transmits it over low power long range RF band to a LoRa gateway.
- The LoRa Gateway in turn sends the information over IP network to IoT network servers.

Expertise/Tools

- Expertise in BLE based solutions
- End to End Architecture and realization
- Expertise in NRF based devices





THANK YOU



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