**OMNI**

**Infant Protection system**

**OMNI** is a smart solution to stop Infant abduction from Hospitals, it also stops infant swapping.

Infant abduction/ infant swapping, fear is a major mental pressure for the to-be mothers especially when hospitalized in Government Hospitals in India. Around 6.7 lakh babies are born in Govt. Hospitals in India every year. We intend to provide safety for the babies and peace of mind to the parents.

OMNI uses Mediatek Linkit One + Grove sensors, to create a Bluetooth BLE based solution.

There are two tags in this solution

1. Mother Bracelet

2. Infant Bracelet

The solution built for the hackathon (In50hrs-IOT Chennai, Mar 2016) has the logic for Bluetooth pairing and RSSI based separation detector. The solution creates alerts in the form of LED glow when the infant is taken away from the mother.

The modules in this repository can be used to be part of the bracelets for other use cases.

* Separation based alert using BLE RSSI
* Identify the baby by touching the mother’s tag to initiate an alert in the baby tag.
* To monitor the state of the baby and to activate/ deactivate the tags via MCS etc.
* Other modules are yet to be added and integrated