BlueNRG-1 BLE SOC

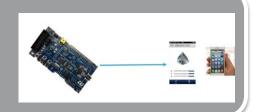
BlueNRG-1 and associated development (& promotion) package presentation



BLE concept demystification



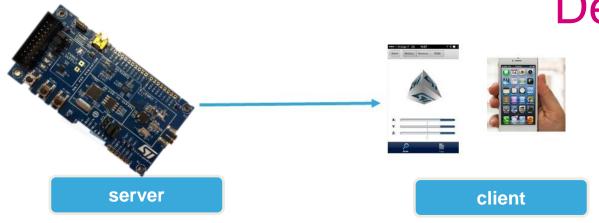
Enable BLE link over BlueNRG-1







BLE Concepts Definitions



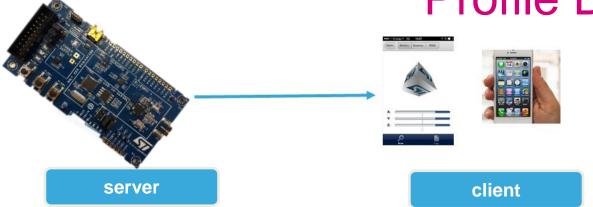
- 2 entities in a BLE communication
 - 1. The server : exposing data (temperature, position, raw data, what you want !)
 - 2. The client: connecting to server and looking for data
- A BLE application is based on an application profile
 - standard: glucose meter, Heart Rate Monitor, Find me
 - Proprietary: sensor profile, chat profile, my custom profile!
- A profile is a basic collection of data exposed by the device
 - service : a basic UUID (0x1808 = Glucose meter Service)
 - characteristic : <u>basic UUID</u> and associated data exposed (MEMS,ect...)



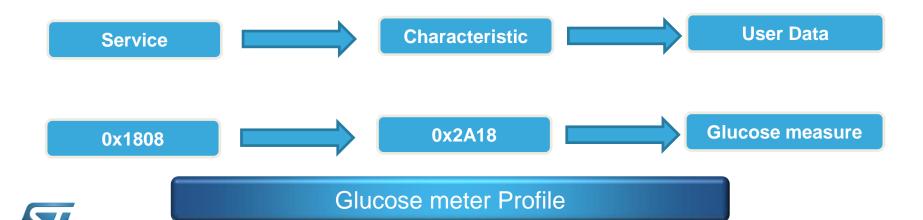


BLE Concepts

Profile Definition



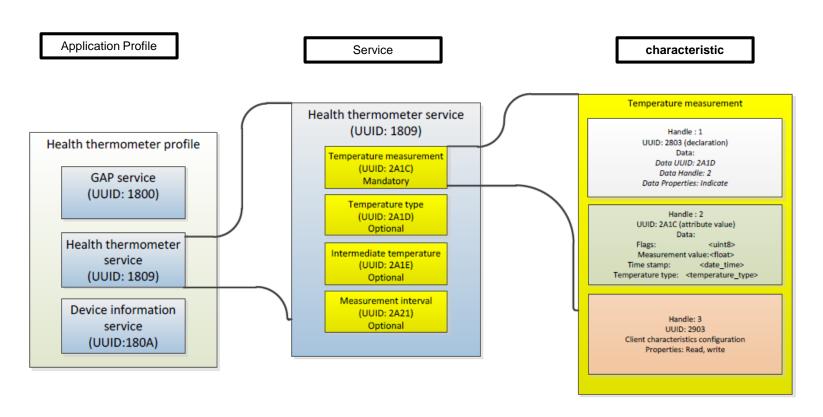
- A profile is a basic collection of data exposed by the device
 - service: a basic UUID (0x1808 = Glucose meter Service)
 - characteristic : basic UUID and associated data you are willing to expose (MEMS)





BLE Concepts Profile Definition





- Standard services & characteristics specification & UUID assignation available:
 - https://developer.bluetooth.org/gatt/services/Pages/ServicesHome.aspx
 - https://developer.bluetooth.org/gatt/characteristics/Pages/CharacteristicsHome.aspx

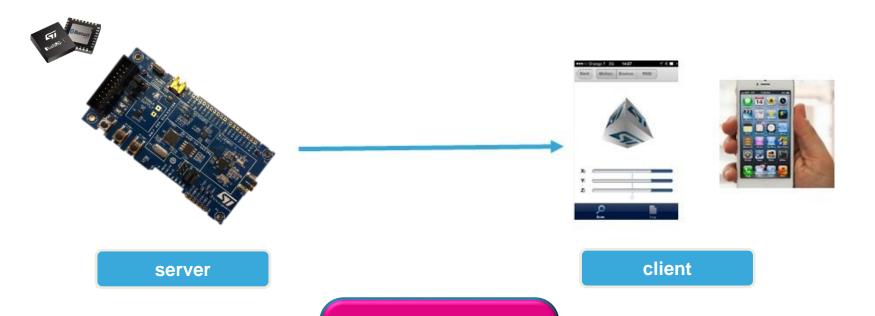




BLE Concepts Attribut Table

Sensor demo Application Profile

service = Sensor Service characteristic = Sensor characterisic



BlueNRG-1 Attribut Table





BLE Concepts Attribut Table

