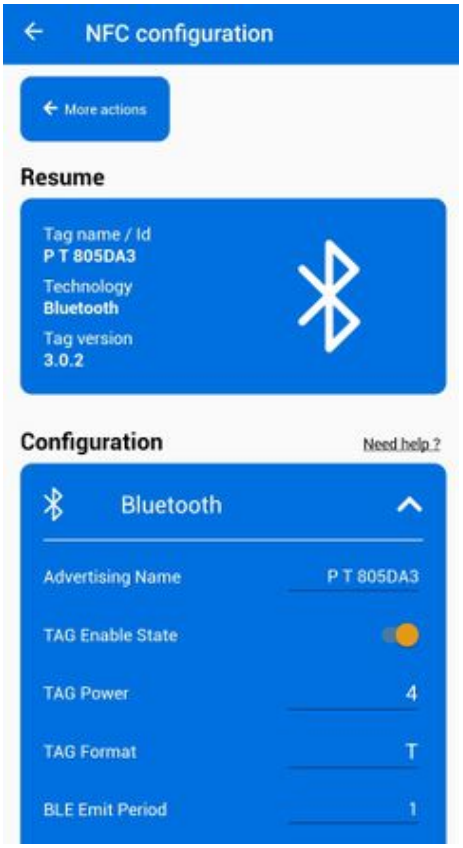
Configuring Blue Puck/Coin sensors

Contents

Configuring Blue Puck/Coin sensors



Bluetooth® LE Blue Puck and Blue Coin sensors are disabled by default. Configurations to these sensors are written through NFC.
To do this download **Device Manager Mobile** by Ela from *Google Play Store* to your Android-powered device.
Note! Android-powered device that is used for configuring Blue Puck/Coin sensors must support NFC read/write functionality.

Follow these instructions to easily configure Blue Puck/Coin Bluetooth® LE sensor:
• Enable `Bluetooth®` and `NFC` on your Android-powered device.
• Launch **Device Manager Mobile** on your Android-powered device.
• Select *Configuration.*
• Place your Android-powered device on top of Blue Puck/Coin sensor to scan it.
• Click *Enable* to allow Blue Puck/Coin sensor transmit advertising data. If it shows a tick, it is already connected to your phone.
• We recommend to set *Power* to 4 to get the best possible distance.
• Set *BLE Emit Period* to 1 seconds to get best possible sensor detection.
• Click *Write* button.
• Place your Android-powered device on top of Blue Puck/Coin sensor to write configuration to it.
Once the configuration is written successfully, the Blue Puck/Coin sensor will be enabled and use the settings configured in the APP.

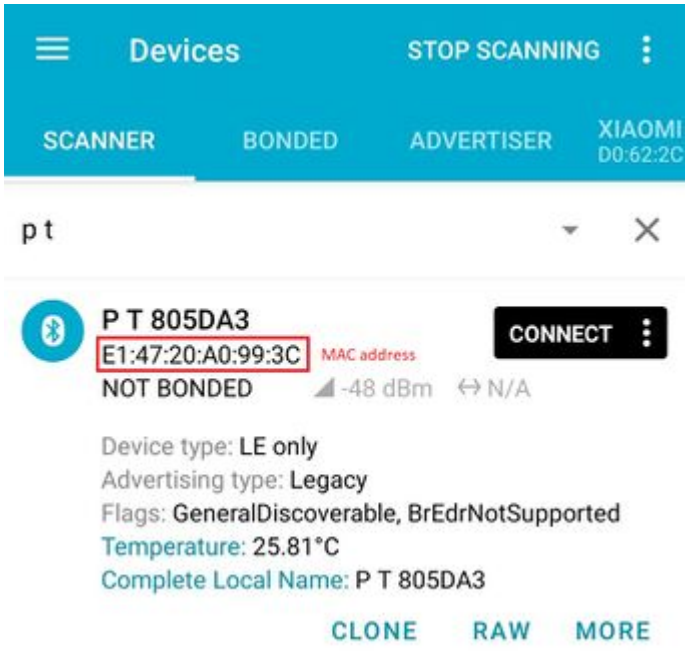
NOTE!	Make sure that *Manufacturer data mode* is Disabled, otherwise BLE sensor will not be detected without additional changes in the device configuration.

Configuring device with Blue Puck/Coin sensors

File:Bluetooth® general.png
These are instructions on how to easily read data from **Blue Puck/Coin** Bluetooth® LE sensor with the chosen device.

First the device **Bluetooth® settings** need to be configured. These are the required steps:

- Press `Bluetooth®` settings.
  - Turn on BT Radio by pressing `Enable (hidden)` or `Enable (visible)`.
- Press `Bluetooth® 4.0` settings.
  - Select `Advanced` in BLE connectionless functionalities section.



- Type your **Blue Puck/Coin** MAC address in `MAC` field. You can check what is your `MAC` address by using nRF connect for Mobile app from *Google Play*.
- Configure the sensor fields according to the type of sensor used. More information about these settings can be found on Blue Puck/Coin presets section.
- After all these steps press `Save to device` to save configuration.

- To start BLE scan right away press `Discover BLE`.

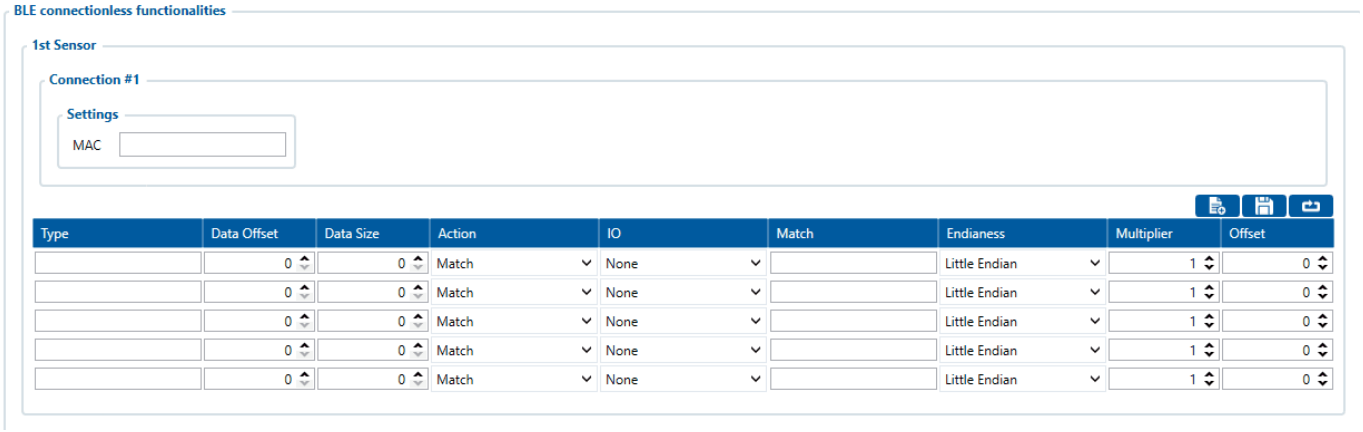
To check if the device has already received data from **Blue Puck/Coin** Bluetooth® LE sensor, follow these steps:

- Navigate to`Status` section.
- Press `I/O Info` and look if BLE Temp, BLE Battery and BLE Humidity has any values (depends on the type of sensor being used).

Blue Puck/Coin presets

Using premade Blue Puck/Coin sensor presets

The configurator can include premade presets for sensors such as Blue PUCK/COIN MOV, MAG, T, RHT and etc.



NOTE!	In order to have sensor presets included in the configurator, every preset has to be recorded in the configuration, saved to a file and placed to Documents folder of your computer.

Also, premade sensor presets can be downloaded using this

To read data from **Blue Puck/Coin** sensors, Sensor table must be configured with specified parameters to a particular sensor.

Blue Puck/Coin T

Bluetooth® LE Temperature sensor configuration

Type	Data Offset	Data Size	Action	IO	Match	Endianess	Multiplier	Offset
FE	5	2	Match	None	6E2A	Little Endian	1	0
FE	7	2	Save	Temperature		Big Endian	0.1	0

Blue Puck/Coin RHT

Bluetooth® LE Temperature and Humidity sensor configuration

Type	Data Offset	Data Size	Action	IO	Match	Endianess	Multiplier	Offset
FE	5	2	Match	None	6E2A	Little Endian	1	0
FE	7	2	Save	Temperature		Big Endian	0.1	0
FE	11	2	Match	None	6F2A	Little Endian	1	0
FE	13	1	Save	Humidity		Little Endian	10	0

Blue Puck/Coin MAG

Bluetooth® LE Magnet sensor configuration

Type	Data Offset	Data Size	Action	IO	Match	Endianess	Multiplier	Offset
FE	5	2	Match	None	062A	Little Endian	1	0
FE	7	2	Save	Custom		Little Endian	1	0

Blue Puck/Coin MOV

Bluetooth® LE Movement sensor configuration

Type	Data Offset	Data Size	Action	IO	Match	Endianess	Multiplier	Offset
FE	5	2	Match	None	062A	Little Endian	1	0
FE	7	2	Save	Custom		Little Endian	1	0