

# ESPHOME

## BLE bluetooth tracker (version 1)

hass

```
input_boolean:
  beacon1:
    name: learn beacon1
    initial: off
    icon: mdi:mdi-tag-plus

  beacon2:
    name: learn beacon2
    initial: off
    icon: mdi:mdi-tag-plus

input_text:
  beacon1:
    name: BLE beacon1
  beacon2:
    name: BLE beacon2

scripts:
  set_beacon1:
    sequence:
      - condition: state
        entity_id: input_boolean.beacon1
        state: "on"
      - service: input_text.set_value
        data_template:
          entity_id: input_text.beacon1
          value: "{{ ibeacon }}"
      - service: input_boolean.turn_off
        entity_id: input_boolean.beacon1

  set_beacon2:
    sequence:
      - condition: state
        entity_id: input_boolean.beacon2
        state: "on"
      - service: input_text.set_value
        data_template:
          entity_id: input_text.beacon2
          value: "{{ ibeacon }}"
      - service: input_boolean.turn_off
        entity_id: input_boolean.beacon2
```

```
set_ibeacon:  
  sequence:  
    - condition: template  
      value_template: "{{ ibeacon != '' }}"  
    - service: script.set_beacon1  
      data_template:  
        ibeacon: "{{ ibeacon }}"  
    - service: script.set_beacon2  
      data_template:  
        ibeacon: "{{ ibeacon }}"
```

panel

```
type: entities  
entities:  
  - entity: input_boolean.beacon2  
  - entity: input_text.beacon2  
title: Bluetooth beacon2
```

esphome

```
esp32_ble_tracker:  
  on_ble_advertise:  
    - then:  
      - homeassistant.service:  
        service: script.set_ibeacon  
        data:  
          ibeacon: !lambda |-  
            for (auto data : x.get_manufacturer_datas()) {  
              auto message = hexencode(data.data);  
              ESP_LOGD("ble_adv", "manufacturer_data: %s [%d]",  
message.c_str(), message.size());  
              if (message.size() >= 73) {  
                /* ibeacon = e2c56db5-dffb-48d2-b060-d0f5a71096e0 */  
                auto ibeacon = message.substr(6, 2) + message.substr(9, 2)  
+ message.substr(12, 2) + message.substr(15, 2) +  
                '-' + message.substr(18, 2) + message.substr(21, 2) +  
                '-' + message.substr(24, 2) + message.substr(27, 2) +  
                '-' + message.substr(30, 2) + message.substr(33, 2) +  
                '-' + message.substr(36, 2) + message.substr(39, 2) +  
message.substr(42, 2) + message.substr(45, 2) + message.substr(48, 1);  
                return ibeacon.c_str();  
              }  
            }  
          return "";
```

## BLE bluetooth tracker (version 2)

```

text_sensor:
- platform: template
  name: "BLE ibeacon"
  id: template_text

esp32_ble_tracker:
  on_ble_advertise:
    - then:
      - lambda: |-
          for (auto data : x.get_manufacturer_datas()) {
            auto message = hexencode(data.data);
            ESP_LOGD("ble_adv", "manufacturer_data: %s [%d]",
message.c_str(), message.size());
            if (message.size() >= 73) {
              /* ibeacon = e2c56db5-dffb-48d2-b060-d0f5a71096e0 */
              auto ibeacon = message.substr(6, 2) + message.substr(9, 2) +
message.substr(12, 2) + message.substr(15, 2) +
                '-' + message.substr(18, 2) + message.substr(21, 2) +
                '-' + message.substr(24, 2) + message.substr(27, 2) +
                '-' + message.substr(30, 2) + message.substr(33, 2) +
                '-' + message.substr(36, 2) + message.substr(39, 2) +
message.substr(42, 2) + message.substr(45, 2) + message.substr(48, 1);
              id(template_text).publish_state(ibeacon.c_str());
            }
          }

```

## BLE bluetooth tracker (deprecated)

parameters to change:

- uuid: "02.15.E2.C5.6D.B5.DF.FB.48.D2.B0.60.D0.F5.A7.10.96.E0.00.01.00.02.C8 (23)"
- name: "scipio cell"

```

binary_sensor:
- platform: template
  device_class: presence
  name: "scipio cell"
  id: beacon1

script:
- id: ble_off_script
  mode: restart
  then:
  - binary_sensor.template.publish:
      id: beacon1
      state: true
  - delay: 60s

```

```
- binary_sensor.template.publish:
  id: beacon1
  state: false

esp32_ble_tracker:
  on_ble_advertise:
    - then:
      - lambda: |-
          for (auto data : x.get_manufacturer_datas()) {
            if (strcmp(hexencode(data.data).c_str(),
"02.15.E2.C5.6D.B5.DF.FB.48.D2.B0.60.D0.F5.A7.10.96.E0.00.01.00.02.C8 (23)"
== 0) {
              ESP_LOGD("ble_adv", "beacon1 found");
              id(ble_off_script).execute();
            }
            else
            {
              ESP_LOGD("ble_adv", "    - %s", hexencode(data.data).c_str());
            }
          }
        }
```

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