ESPHOME

BLE bluetooth tracker (version 1)

hass

```
input_boolean:
  allarme:
    name: allarme armato
    initial: off
    icon: mdi:alarm-plus

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

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

  beacon1_active:
    name: beacon1 is detected
    icon: mdi:mdi-account-check

  beacon2_active:
    name: beacon2 is detected
    icon: mdi:mdi-account-check

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


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

```
  set_beacon1:
    sequence:
      - service: script.beacon1_active
        data_template:
          ibeacon: "{{ ibeacon }}"
      - 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:
      - service: script.beacon2_active
        data_template:
          ibeacon: "{{ ibeacon }}"
      - 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

  beacon1_active:
    sequence:
      - condition: template
        value_template: "{{ ibeacon == states('input_text.beacon1') }}"
      - service: input_boolean.turn_on
        entity_id: input_boolean.beacon1_active
      - delay: 30
      - service: input_boolean.turn_off
        entity_id: input_boolean.beacon1_active

  beacon2_active:
    sequence:
      - condition: template
        value_template: "{{ ibeacon == states('input_text.beacon2') }}"
      - service: input_boolean.turn_on
        entity_id: input_boolean.beacon2_active
      - delay: 30
      - service: input_boolean.turn_off
        entity_id: input_boolean.beacon2_active
```

```
automations:
  - alias: "beacon2 is active"
    trigger:
      platform: state
      entity_id: input_boolean.beacon2_active
      to: "on"
    action:
      - service: notify.alexa_media
        data:
          message: "Stefano è arrivato"
          data:
            type: announce
            method: all
          target:
            - show
            - Echo

  - alias: "beacon2 is not active after last presence"
    trigger:
      platform: state
      entity_id: input_boolean.beacon2_active
      to: "off"
      for:
        minutes: 1
    action:
      - service: notify.alexa_media
        data:
          message: "Stefano è partito"
          data:
            type: announce
            method: all
          target:
            - show
            - Echo

  - alias: "beacon1 is active"
    trigger:
      platform: state
      entity_id: input_boolean.beacon1_active
      to: "on"
    action:
      - service: light.turn_on
        target:
          entity_id:
light.ikea_of_sweden_tradfri_bulb_e27_ws_opal_980lm_c969e5fe_level_light_col
or_on_off


  - alias: "beacon1 is not active after last presence"
    trigger:
```

```
      platform: state
      entity_id: input_boolean.beacon1_active
      to: "off"
      for:
        minutes: 1
    action:
      - service: light.turn_off
        target:
          entity_id:
light.ikea_of_sweden_tradfri_bulb_e27_ws_opal_980lm_c969e5fe_level_light_col
or_on_off
```

panel

```
type: entities
entities:
  - entity: input_boolean.beacon1
  - entity: input_text.beacon1
  - entity: sensor.wifi_signal_sensor
  - entity: input_boolean.beacon1_active
  - entity: >-
light.ikea_of_sweden_tradfri_bulb_e27_ws_opal_980lm_c969e5fe_level_light_col
or_on_off
title: Tracker soggiorno
```

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());
            }
          }
```