

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_color_on_off
```

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-dff8-48d2-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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