

ESPHOME

BLE tracker smartband

esphome

enable esp32_ble_tracker and a binary sensor on ble_presence

```
esp32_ble_tracker:  
  
binary_sensor:  
  - platform: ble_presence  
    mac_address: E8:36:FD:20:E3:54  
    id: miband_presence_scipio  
    name: "MiBand presence scipio"
```

hass

automation directly on sensor created by esphome

```
- alias: cancello  
trigger:  
  - entity_id: binary_sensor.miband_presence_scipio  
    platform: state  
    to: 'on'  
    for:  
      seconds: 2  
  - entity_id: binary_sensor.miband_presence_scipio  
    platform: state  
    to: 'off'  
    for:  
      seconds: 2  
action:  
  - service: notify.alexa_media  
    data_template:  
      message: >  
        {% if is_state('binary_sensor.miband_presence_scipio', 'on') %}  
          'Stefano è arrivato'  
        {% else %}  
          'Stefano è partito'  
        {% endif %}  
    data:  
      type: announce  
      method: all  
    target:  
      - show
```

- Echo

example of added binary sensor defined on ble sensor

```
binary_sensor:  
  - platform: template  
    sensors:  
      miband_scipio_sticky:  
        value_template: >-  
          {{is_state('binary_sensor.miband_presence_scipio', 'on')}}  
        delay_off: 60
```

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());  
      }  
    }  
  }
```

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