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## What is the Sdomotica Gateway

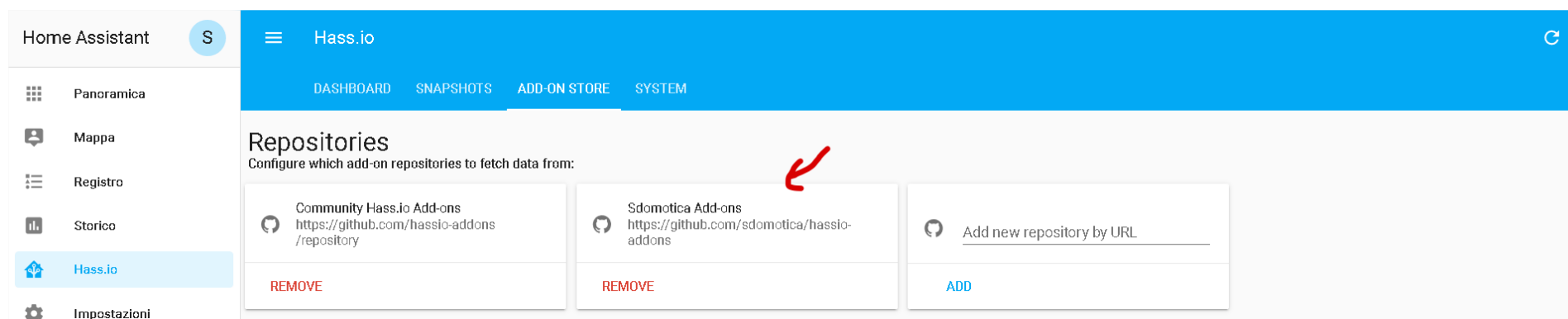
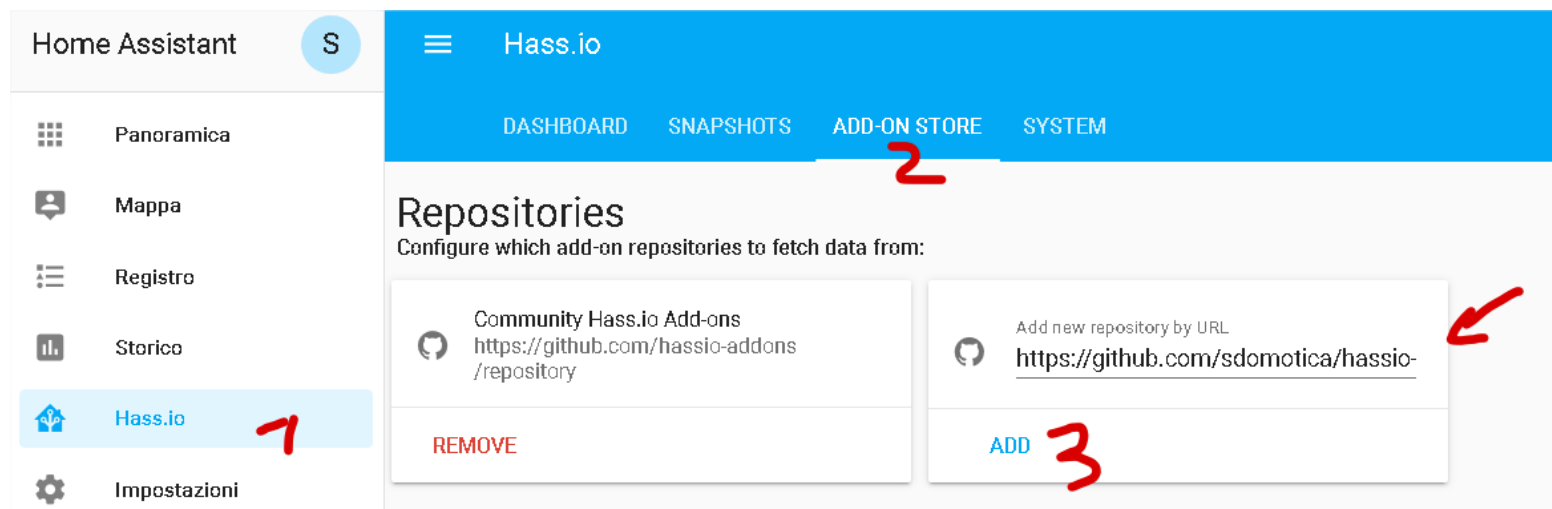
Sdomotica Gateway is Hass.io Add-on runs only a Raspberry Pi which, in combination with a Gateway Bticino/Legrand already present in your system, allows you to integrate and control MyHome automation system with a series of other software and third-party components.

Fundamentally, Sdomotica Gateway translates home automation commands into MQTT messages and is a builder of Home Assistant package specifically for BTicino/Legrand items.

Please follow all the steps to install and configure add-on, don't jump any step.

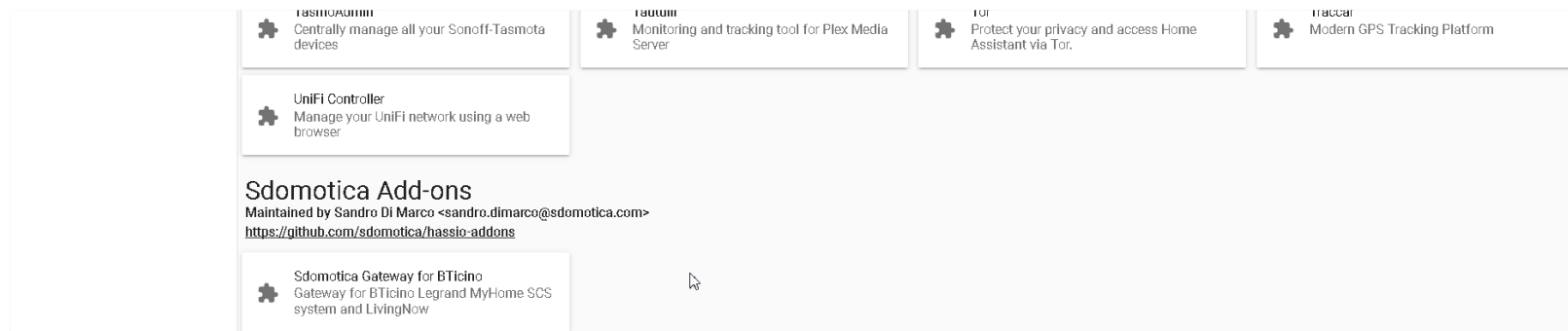
## Add-on Installation e setup

As every Hass.io add-ons please add our repository <https://github.com/sdomotica/hassio-addons>

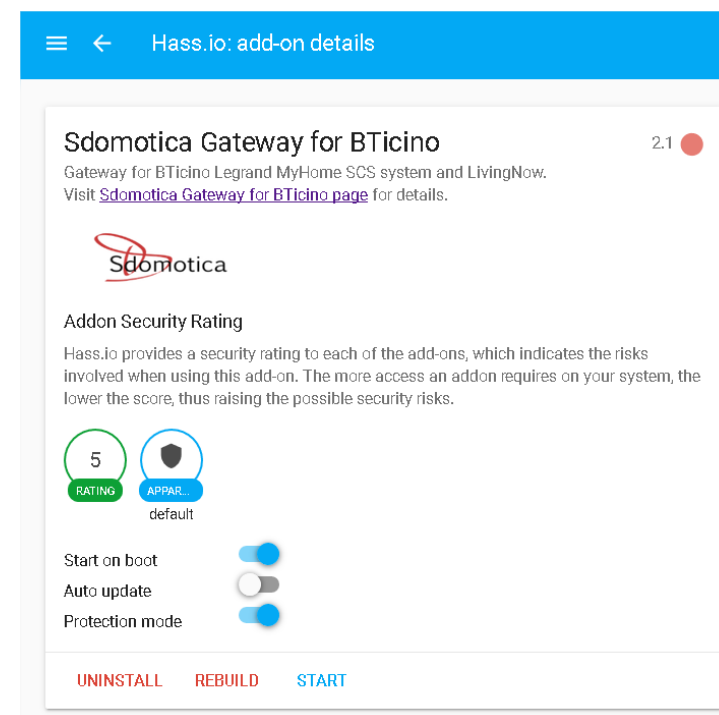
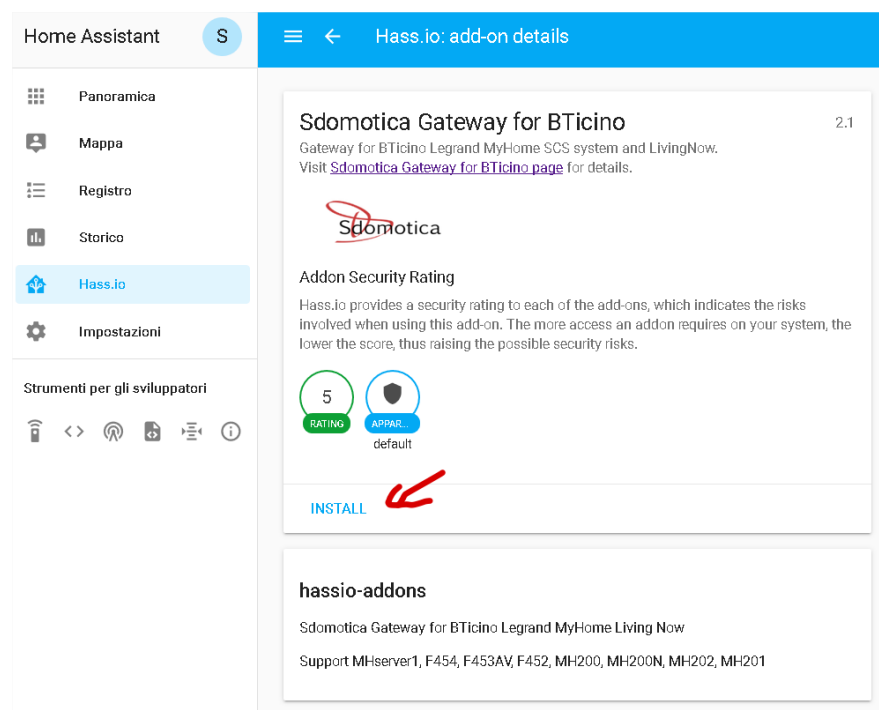


# Sdomotica Gateway

Scroll at the end of the page and

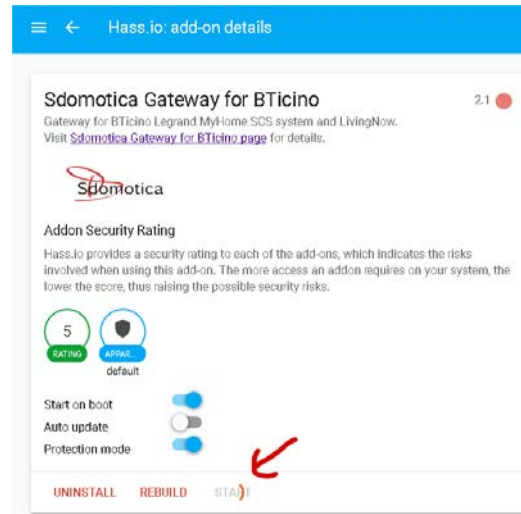


This take long time, on my Raspberry Pi 3B+ required 4 minutes to install the add-on

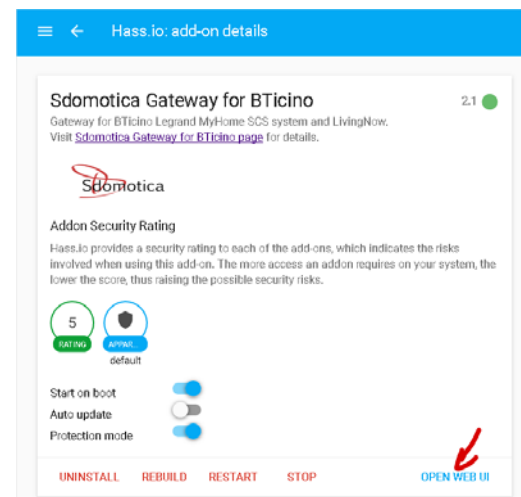


## Add-on Setup

Start the add-on (more or less 30 seconds)



Open Sdomotica Web UI



SDOMOTICA GATEWAY CONTROL PANEL

Home

Bticino Gateway

License

Monitor

Config.json

Home Assistant

Sdomotica System

License: Trial: 10000

Raspberry IP: 172.30.33.2

Version: 3.10.free

Raspberry 3 Model B+

Serial: 0000001

Bticino Gateway

IP Address: 192.168.1.35

Port: 20000

Password Open: \*\*\*\*\*

Connection status: Connected

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# Sdomotica Gateway

BTICINO WEB SERVER

Home  
BTicino Gateway  
License  
Monitor  
Config.json  
Home Assistant

## BTicino Webserver Settings

[General]  
myhomeGateway=192.168.1.35  
myhomeGatewayPort=20000  
myhomePassword=12345  
debug= 1  
#WebPassword=yes  
HaBridgePort=80  
HAPassword =   
Mqtt=yes

[MQTT]  
mqtt\_ip=192.168.1.180  
mqtt\_port=1883  
mqtt\_user=sdomotica  
mqtt\_pwd=sdomotica

Save

Enter the IP address of your Bticino Gateway. 192.168.1.35

Enter the Open password of your Bticino Gateway – it is normally 12345

HA legacy password is optional

Set the data of your MQTT broker (as per configuration.yaml)

Save and Restart the add-on.

```
homeassistant:
  # Name of the location where Home Assistant is running
  name: Home
  # Location required to calculate the time the sun rises and sets
  latitude: 46.046
  longitude: 8.9872
  # Impacts weather/sunrise data (altitude above sea level in meters)
  elevation: 0
  # metric for Metric, imperial for Imperial
  unit_system: metric
  # Pick yours from here:
  # http://en.wikipedia.org/wiki/List_of_tz_database_time_zones
  time_zone: Europe/Zurich
  packages: !include_dir_named packages
  # Customization file
  customize: !include customize.yaml

# Show links to resources in log and frontend
introduction:

# Enables the frontend
frontend:


# Enables configuration UI
config:

# For more information, please see:
# https://home-assistant.io/blog/2016/10/25/explaining-the-updater/
update:
  # Optional, allows Home Assistant developers to focus on popular components.
  # include_used_components: true

mqtt:
  broker: 192.168.1.180
  username: sdomotica
  password: sdomotica
```



Sdomotica Gateway for BTicino 2.1


Gateway for BTicino Legrand MyHome SCS system and LivingNow.  
Visit [Sdomotica Gateway for BTicino page](#) for details.





Addon Security Rating

Hass.io provides a security rating to each of the add-ons, which indicates the risks involved when using this add-on. The more access an add-on requires on your system, the lower the score, thus raising the possible security risks.

5  

Start on boot 

Auto update 

Protection mode 

UNINSTALL REBUILD **RESTART** STOP OPEN WEB UI

If the connections is OK

[Home](#)  
[BTicino Gateway](#)  
[License](#)  
[Monitor](#)  
[Config.json](#)  
[Home Assistant](#)

SDOMOTICA GATEWAY CONTROL PANEL

### Sdomotica System

License: Trial: 10000

Raspberry IP: 172.30.33.2

Version: 3.10.free

Raspberry 3 Model B+

Serial: 000000001c92d318

### Bticino Gateway


IP Address: 192.168.1.35

Port: 20000

Password Open: \*\*\*\*\*

Connection status: Connected

Copyright 2019 Sandro Di Marco





## Mapping your MyHome system

Once connected to the BTicino gateway, you must enter the objects from your MyHome system.

MYHOME SYSTEM CONFIG PAGE

Home

BTicino Gateway

License

Monitor

**Config.json**

Home Assistant

### MyHome System config.json

```
{
  "bridge": {
    "name": "Sdomotica",
    "username": "CC:13:3D:E3:CE:39",
    "port": 51828,
    "pin": "031-45-154"
  },

  "description": "This is the config file based on Homebridge standard. Please edit only accessories into platforms",
  "accessories": [ ],
  "platforms": [

    {
      "platform": "MyHome2",
      "name": "MyHome2",
      "host": "127.0.0.1",
      "port": "3002",
      "password": "12345",
      "url": "http://127.0.0.1:3000",
      "log": "0",

      "accessories": [
        { "type": "Lightbulb", "name": "Corridoio", "address": "0111", "can_dim": false},
        { "type": "Lightbulb", "name": "Tavolo", "address": "0112", "can_dim": false},
        { "type": "Lightbulb", "name": "Zona TV", "address": "03", "can_dim": false},
        { "type": "Lightbulb", "name": "Ingresso", "address": "04", "can_dim": false},
        { "type": "Lightbulb", "name": "Living Room", "address": "0111", "can_dim": false},
        { "type": "Lightbulb", "name": "Patio", "address": "03", "can_dim": false},
        { "type": "Lightbulb", "name": "Bedroom", "address": "04", "can_dim": false}
      ]
    }
  ]
}
```

Entry is always done via the WebInterface. You have to fill MyHome System config.json which is Homebridge standard config.json file

## Rules to follow in writing the config.json

The maximum number of Homebridge / Homekit objects is 99 but for Sdomotica you don't have limit.

DON'T USE WORD for edit the file. I suggest Notepad++ <https://notepad-plus-plus.org/>

The name of the objects (see the paragraph for the implemented objects) must be **unique**, duplicates are not allowed.

For the addresses of the light actuators it is necessary to follow some restrictions:

In the case of A > 1 and up to 9 and PL from 1 to 9, the addresses will be only two characters.

For example: A=1 PL=2 -> "address": "12"

In the case of A = 0 and PL from 1 to 9, the addresses will be only two characters.

For example: A=0 PL=2 → "address": "02"

In the case of A > 9 or PL > 9 the addresses will be of four characters.

For example: A = 1 and PL=15 -> "address": "0115"

For example: A = 11 and PL=01 -> "address": "1101"

If in your system there is a F422 the APL format will be

For example: A=1 PL=2 -F422=1> "address": "12#4#01"

All addresses must be written in quotes without space inside.

You will have to add as many lines as necessary for all of your objects. Each line is terminated by a comma, except the **last one** that does not have to have the comma at the bottom.

Once completed, click on Save and Restart Add-on.

```
{
  "type": "Lightbulb", "name": "Luce 11", "address": 11, "can_dim": false},
  "type": "Button", "name": "Bottone 11", "address": 11, "can_dim": false},
  "type": "Switch", "name": "Switch 11", "address": 11, "can_dim": false},
  "type": "Windows", "name": "Veranda", "address": 31, "time": 2},
  "type": "Door", "name": "Cam", "frame": "6*0*4002##",
  "type": "Sensor", "name": "Sensore 0111 Attuatore", "address": "0111"},
  "type": "Sensor3477", "name": "Sensore 3477 normale", "address": "19"},
  "type": "Sensor3477inv", "name": "Sensore 3477 invertito", "address": "19"},
  "type": "Lightbulb", "name": "Luce 32", "address": 32, "can_dim": false},
  "type": "SAThermoHC", "name": "Soggiorno Sonda Singola", "address": 1}
}
```

Save file

The lines should correspond to the currently implemented objects and are as follows:

## Lights / Controlled Outlets

```
{ "type": "Lightbulb", "name": "Cucina", "address": "12", "can_dim": false },
{ "type": "Lightbulb", "name": "Dimmer TV", "address": "19", "can_dim": true },
{ "type": "Outlets", "name": "Presa Rack 12", "address": "12" },
{ "type": "Switch", "name": "Switch 11", "address": "11" },
{ "type": "Lightbulb", "name": "Palla Balcone Nico", "address": "41#4#01" },
{ "type": "Lightbulb", "name": "Cancello", "address": "12", "frame": "*1*17*12##" },
```

## Sensors (3476-3477)

```
{ "type": "Sensor", "name": "Sensore 0111 Attuatore", "address": "0111" },
{ "type": "Sensor3477", "name": "Sensore 3477 normale", "address": "19" },
{ "type": "Sensor3477inv", "name": "Sensore 3477 invertito", "address": "19" },
```

## Controlled Loads

```
{ "type": "Energy", "name": "Generale", "address": "1" },
{ "type": "F522", "name": "Lavastoviglie", "address": "2" },
{ "type": "F523", "name": "Lavatrice", "address": "5" },
```

## Heating/Cooling (99 zone controller, external probe/sensor and passive probe/sensor)

```
{ "type": "TemperatureSensors", "name": "Sonda Esterna", "address": 1 },
{ "type": "Thermostat", "name": "Soggiorno", "address": 1 },
{ "type": "TemperatureSensorsInternal", "name": "Zona non controllata", "address": 112 }
```

## Heating/Cooling (4 zone controller)

```
{ "type": "4ZThermo", "name": "Soggiorno 4 Zone", "address": 1 },
```

## Heating/Cooling (Stand Alone 4691 with F430/2 typically with MyHomeServer1)

Based on your mix (Heating/Cooling) you have to use:

### Both Heating and Cooling

```
{"type": "SAThermoHC", "name": "Soggiorno Sonda Singola", "address": 1},
```

### Only Cooling

```
{"type": "SAThermoC", "name": "Soggiorno Sonda Singola", "address": 1},
```

### Only Heating

```
{"type": "SAThermoH", "name": "Soggiorno Sonda Singola", "address": 1},
```

## Shutters/Blinds

The Bticino blinds do not indicate the state – only their movement is managed. For example, you can't tell if they are open or closed. Therefore, Bticino Gateway only indicates that the blinds are opening / closing / or are still.

The shutter object in Homekit only indicates a %. Therefore, we have simplified them by indicating them at 50% if they are stationary. It's 0 % or 100% if they are in the process of closing or opening.

```
{"type": "Windows", "name": "Veranda", "address": 31},
```

However, if the actuators installed instead are the 4661M2 or F401 and the gateway is an F454 with the latest firmware or the MHserver1, you can manage the positions - in this case, given you are able to manage the status, the % of opening will be highlighted. The object to use in this case will be:

```
{"type": "WindowsAdvance", "name": "Veranda Avanzata", "address": 55}
```

## Multi-Channel Audio System

In the main part of the config.json you will have to add your sources

```
"platforms": [  
  {  
    "platform": "MyHome2",  
    "name": "MyHome2",  
    "host": "127.0.0.1",  
    "port": "3002",  
    "password": "12345",  
    "url": "http://127.0.0.1:3000",  
    "log": "0",  
    "source1": "Radio",  
    "source2": "Radio Dab",  
    "source3": "MediaPlayer Spotify",
```

A maximum of 4 sources can be added - they must be written in order and always with the comma at the end

```
"source1": "Name of your source 1",  
"source2": "Name of your source 2",  
"source3": "Name of your source 3",  
"source4": "Name of your source 4",
```

Then, in the area of the objects, you will indicate the zone amplifiers

```
{ "type": "Audio", "name": "Ampli Cucina", "address": "11" },  
{ "type": "Audio", "name": "Bagnetto", "address": "21" },  
{ "type": "Audio", "name": "Bagno Padronale", "address": "22" },
```

## Burglar Alarm (controller 3486)

In the event that you have enabled the automations feature (such as an arming / disarming) on the burglar-alarm central unit, Aux commands will allow you to manage your home burglar alarm system from Homebridge / Homekit.

Here are the instructions to enable the automation (CAUTION THIS PROCEDURE LOWERS THE SAFETY LEVEL OF YOUR BURGLAR ALARM SYSTEM)

```
{ "type": "SecuritySystem" , "name": "Antifurto", "zone": "8",  
    "STAY_ARM": "*9*4*1##",  
    "AWAY_ARM": "*9*1*9##",  
    "NIGHT_ARM": "*9*4*3##",  
    "DISARMED": "*9*0*9##",  
    "ZONA1": "Ingresso",  
    "ZONA2": "Soggiorno",  
    "ZONA3": "Finestre sotto",  
    "ZONA4": "Finestre sopra",  
    "ZONA5": "Test"  
},
```

## Open Doors

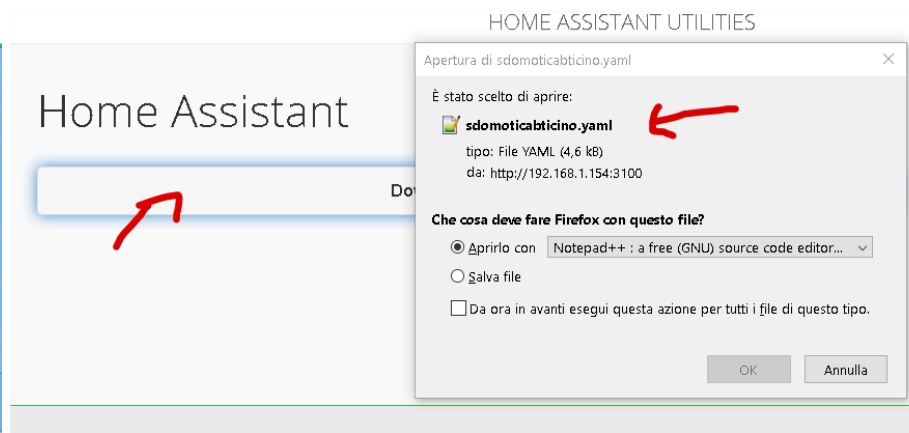
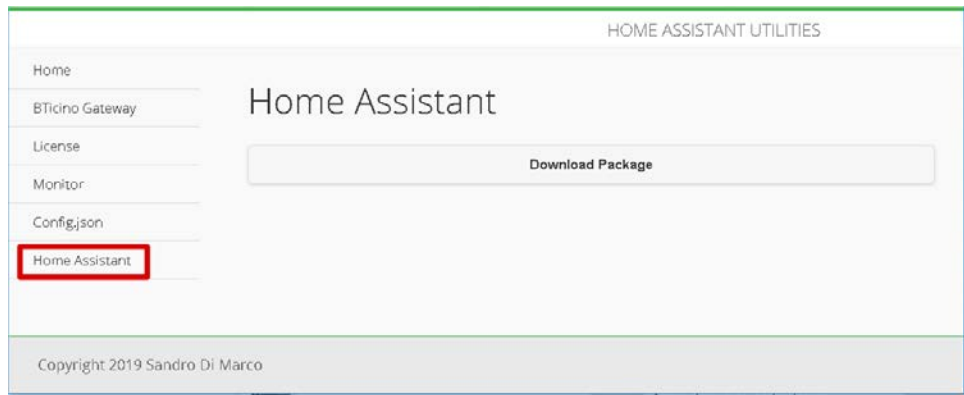
```
{ "type": "Door" , "name": "Porta Garage", "address": 11, "frame": "*1*18*71##"},  
{ "type": "Door" , "name": "Cancelletto", "address": 11, "frame": "*6*10*4000##"},
```

## Generic Buttons

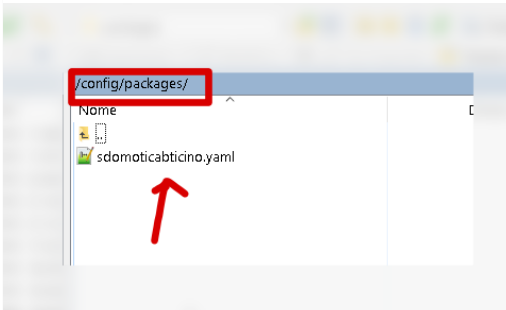
```
{ "type": "Button", "name": "Cancello", "address": 12},  
{ "type": "Cen", "name": "Cen command", "frame": "*25*23#1*21##"},
```

## Build Home Assistant package

Once connected to the BTicino gateway and mapped your system you can build the package.yaml to insert in your Home Assistant configuration folder



```
homeassistant:
  # Name of the location where Home Assistant is running
  name: Home
  # Location required to calculate the time the sun rises and sets
  latitude: 46.046
  longitude: 8.9872
  # Impacts weather/sunrise data (altitude above sea level in meters)
  elevation: 0
  # metric for Metric, imperial for Imperial
  unit_system: metric
  # Pick yours from here:
  # http://en.wikipedia.org/wiki/List_of_tz_database_time_zones
  time_zone: Europe/Zurich
  packages: !include_dir_named packages
  # Customization file
  customize: !include customize.yaml
```



Restart your Home Assistant

## OpenWebNet Monitor / Client

In Sdomotica Gateway there's a client for see and send OpenWebnet Messages

BTICINO MONITOR

Home

BTicino Gateway

License

Monitor

Configjson

Home Assistant

### BTicino Monitor Open

Send

Start

Stop

Clear

2019-02-09T11:58:53 - Broadcast message: "1\*0\*04## - 251

2019-02-09T11:58:53 - Broadcast message: "1\*1\*03## - 249

2019-02-09T11:58:53 - Broadcast message: "1\*0\*0112## - 244

2019-02-09T11:58:53 - Broadcast message: "1\*1\*0111## - 242

2019-02-09T11:58:53 - Broadcast message: "1\*1\*24## - 240

2019-02-09T11:58:52 - Broadcast message: "1\*0\*23## - 235

2019-02-09T11:58:52 - Broadcast message: "1\*1\*11## - 233

2019-02-09T11:58:52 - Broadcast message: "1\*0\*12## - 228

2019-02-09T11:58:52 - Broadcast message: "2\*0\*31## - 225

2019-02-09T11:58:52 - Broadcast message: "1\*1\*32## - 223

Connected