

Introduction

This document describes of controlling and monitoring a RAPIX Lighting Control System using Home Assistant.

MQTT is a commonly used protocol used for communicating between industrial devices.

In the RAPIX Lighting Control System, a Zone Controller can act as a MQTT Client.

Home Assistant can also act an MQTT Client. This is the method used for control and monitor the RAPIX Lighting Control System from Home Assistant.

For details of using RAPIX with MQTT, refer to Application Note APN-RAPIX-026: *Using RAPIX with MQTT*, available here: <https://ozuno.com/go/mqtt/>.

This application note assumes that the user:

- a. Has Home Assistant installed and is familiar with using it; and
- b. Has a RAPIX Lighting Control System with Zone Controller, which is fully commissioned and running. The project must contain at least one Zone.

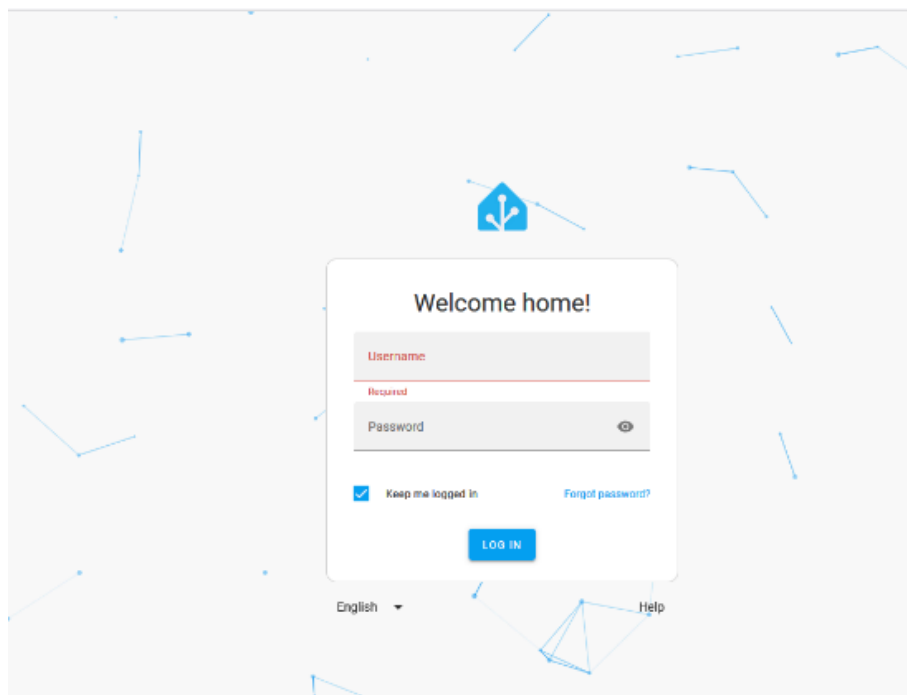
This Application Note has three sections; and assumes the user has no knowledge of MQTT in association with Home Assistant:

- a. Step 1: Add MQTT Broker to Home Assistant(HA).
- b. Step 2: Setting Zone Controller to subscribe to HA MQTT Broker.
- c. Step 3: Getting ZC Device and Entities to HA Dashboard.

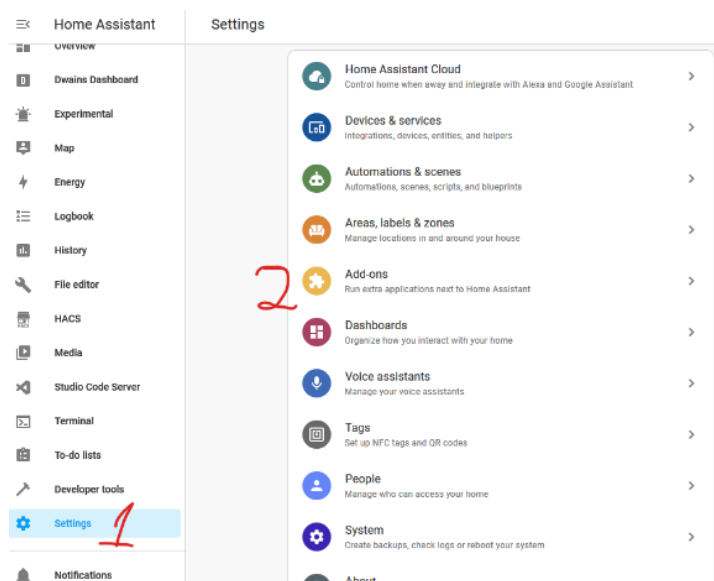
Step 1: Add MQTT Broker to Home Assistant(HA).

(Skip this section if you already have a separate MQTT Broker server)

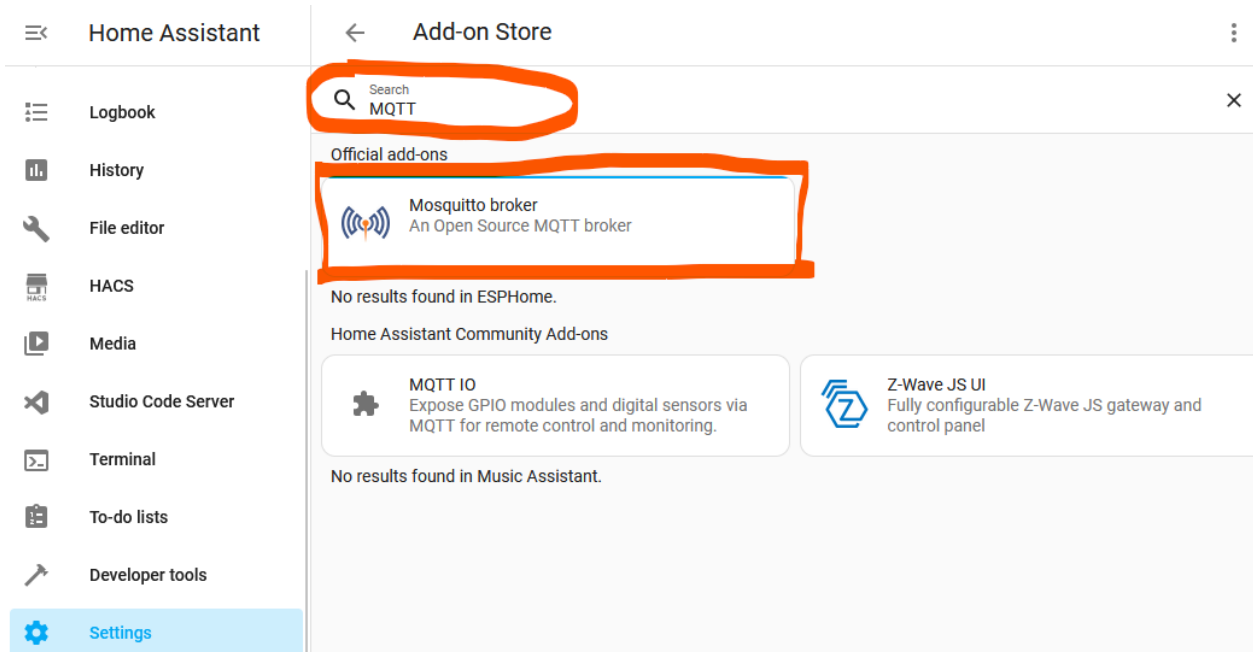
- Access your local Home Assistant (HA), typically using a URL like <http://homeassistant.local:8123> or type <IP>:8123 on the address bar of your web browser.
- You will get a Home Assistant “Welcome Home!” screen. Enter your Username and Password to log into your HA.



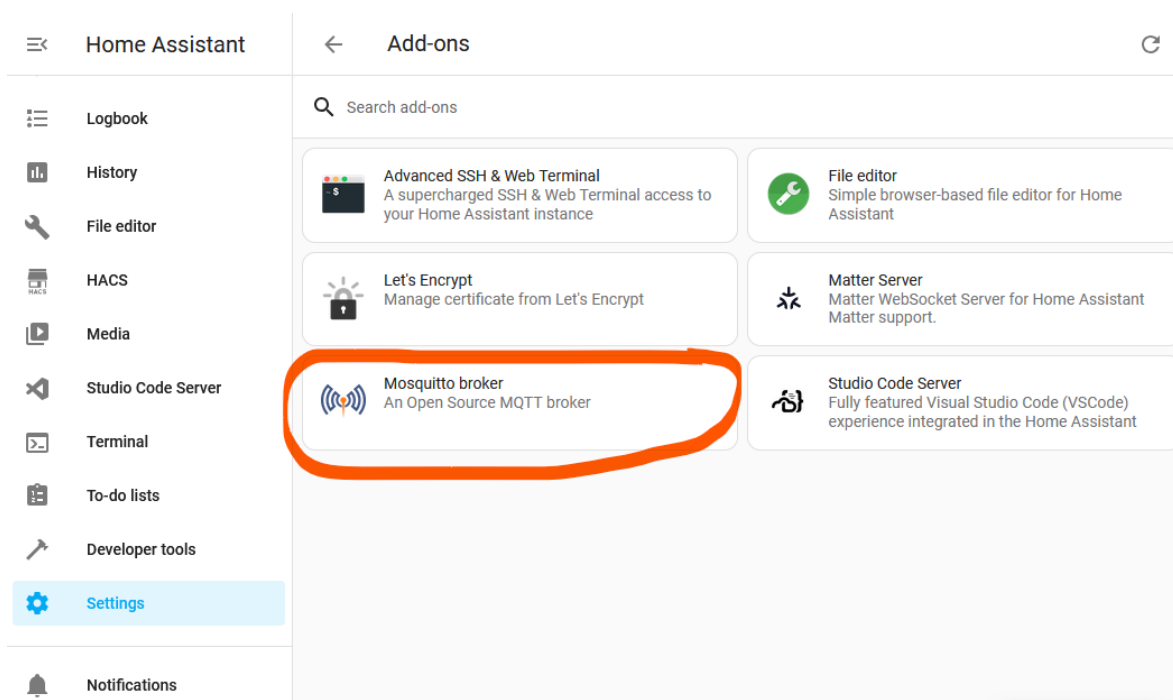
- After Login you should see the HA Dashboard. On the Left Hand Side you should see **Settings** tab. Click on the **Settings** tab.



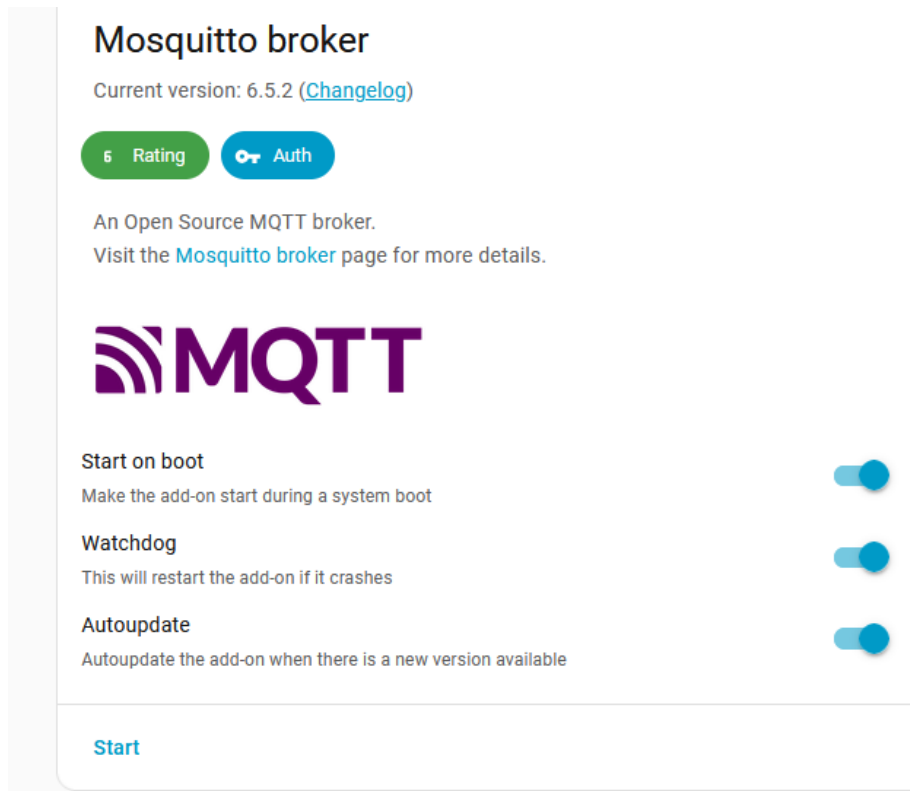
- d. Then Click on **Add-ons**
- e. Now Click on the Blue **Add-on store** button at the bottom Right-Hand corner.
- f. In the Add-on Store Type **MQTT** into the search at the top.



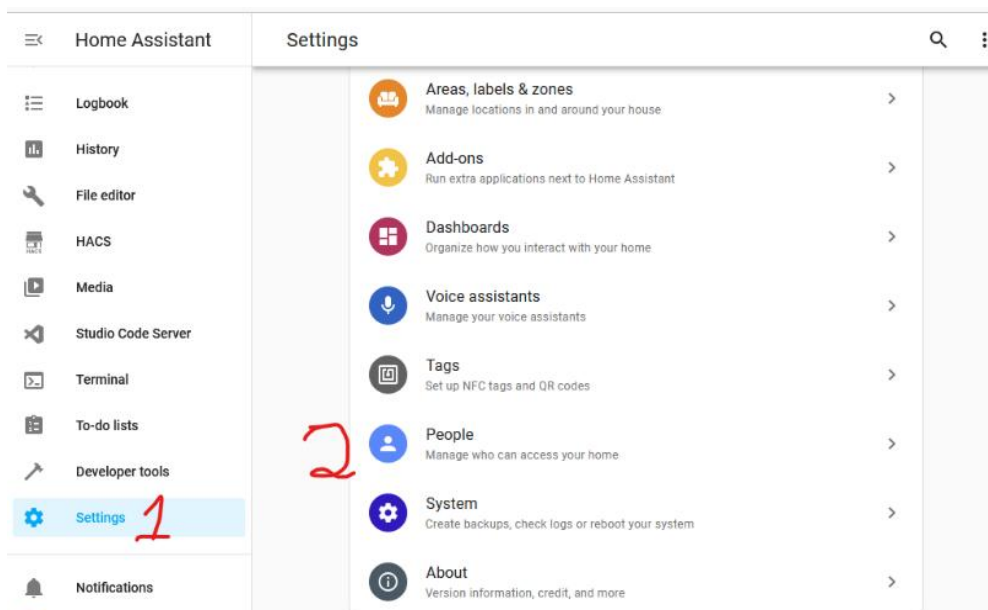
- g. Click on the **Mosquitto broker** icon to add the Mosquitto integration to HA. Leave all settings as default.
- h. Press the left arrow <- at the top left hand side near the title **Add-on Store**.
- i. You should now have a screen that looks like this:



- j. If you see **Mosquitto broker** in the Add-ons then congratulations: you have now added Mosquitto MQTT Broker to Home Assistant.
Be aware that a Mosquitto Server can be anywhere, you don't have to use the HA one.
- k. Click the **Mosquitto broker** icon to open it. Make sure **Start on boot** and **Watchdog** are enabled. Then press **Start** to start the Mosquitto broker service.



- l. Add a New User to HA by click on Home Assistant **Settings** then **People**



m. Name new user as **mqtt** and password **123456** or anything else that you want.

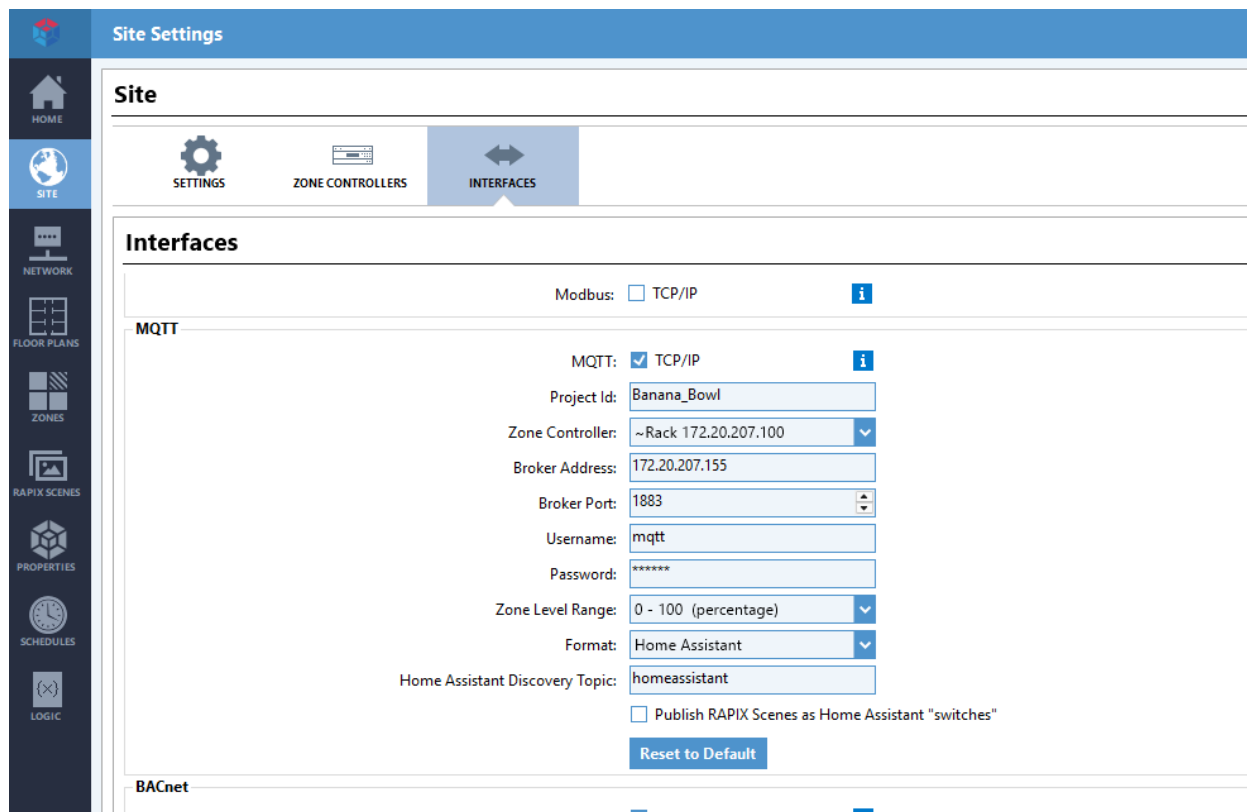
The RAPIX Zone Controller needs to subscribe to the Home Assistant MQTT Broker, so the Zone Controller MQTT setting for username and password must match the username and password you configure here.

For reconfigure MQTT, Consult this link <https://www.home-assistant.io/integrations/mqtt/>

Step 2: Setting Zone Controller to subscribe to HA MQTT Broker.

(Make sure you have at least RAPIX Integrator version 12.39. Zone Controller needs Firmware 13.1.0 installer, or later.)

- Start RAPIX Integrator and open your Project. Click on the **Site** tab then **INTERFACES**.
- Check the tick box **MQTT** so that it is checked.



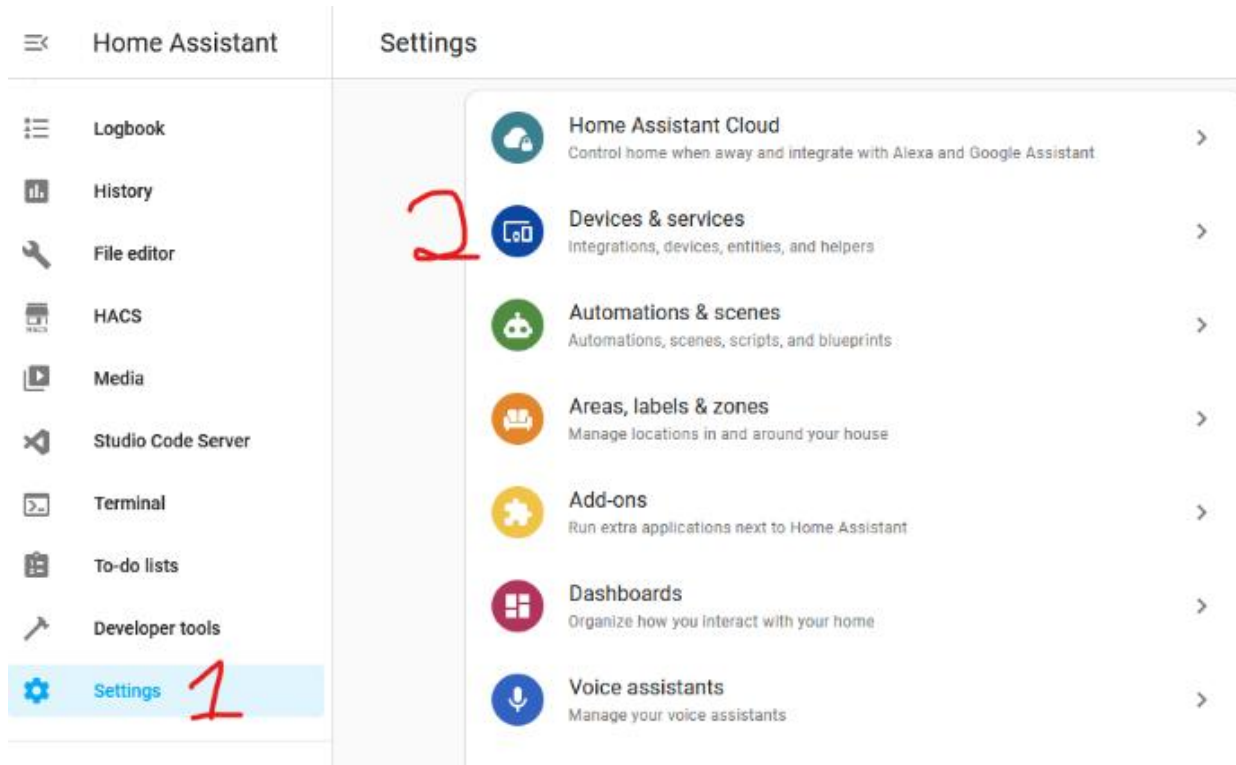
The screenshot shows the 'Site Settings' interface with the 'INTERFACES' tab selected. Under the 'MQTT' section, the following settings are visible:

- Modbus:** ☐ TCP/IP
- MQTT:** ☒ TCP/IP
- Project Id:** Banana_Bowl
- Zone Controller:** ~Rack 172.20.207.100
- Broker Address:** 172.20.207.155
- Broker Port:** 1883
- Username:** mqtt
- Password:** *****
- Zone Level Range:** 0 - 100 (percentage)
- Format:** Home Assistant
- Home Assistant Discovery Topic:** homeassistant
- ☐ Publish RAPIX Scenes as Home Assistant "switches"
- Reset to Default** button

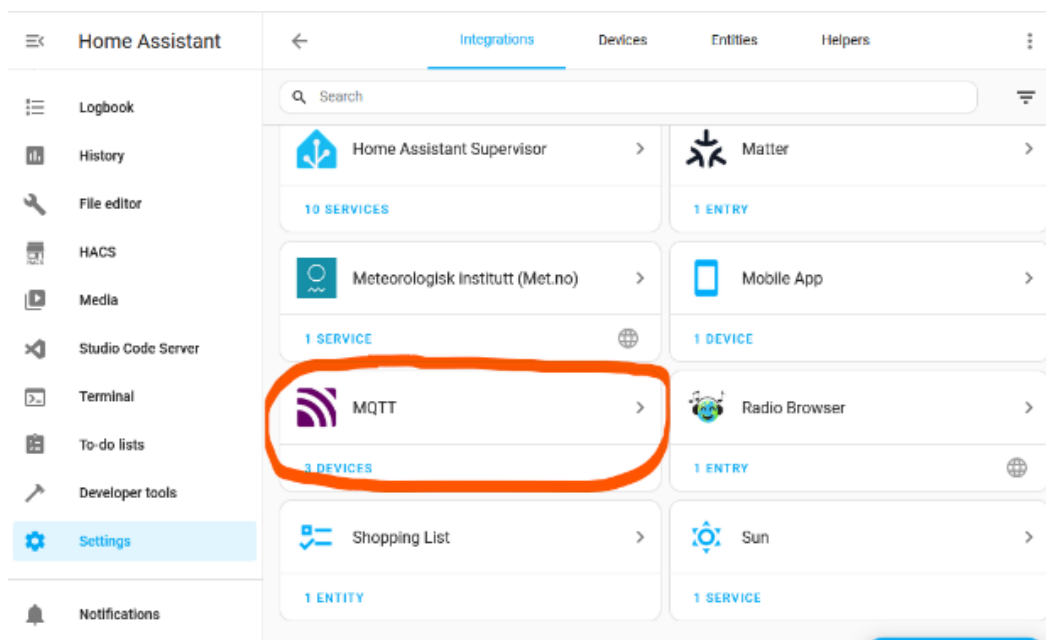
- Give your project an ID (in the above example, it is **Banana_Bowl**)
- Select the **Zone Controller** that will subscribe to Home Assistant MQTT Broker.
- Enter the HA MQTT Broker Address in the **Broker Address** box (If using the Home Assistant Mosquitto broker, this should be your Home Assistant IP.)
- Leave **Broker Port** as default **1883**
- Enter HA **Username** that was created in Step 1 – example: **mqtt**
- Enter HA **Password** that was created in Step 1 – example: **123456**
- Select **Zone Level range** as **0-100 (percentage)**
- Set Format to **Home Assistant**
- Set **Home Assistant Discovery Topic** to **homeassistant**
- Make sure you have a few Zones or Scenes or Flags or Operating Properties in your project.
- Transfer your project to Zone Controller.

Step 3: Getting RAPIX Devices and Entities to Home Assistant Dashboard

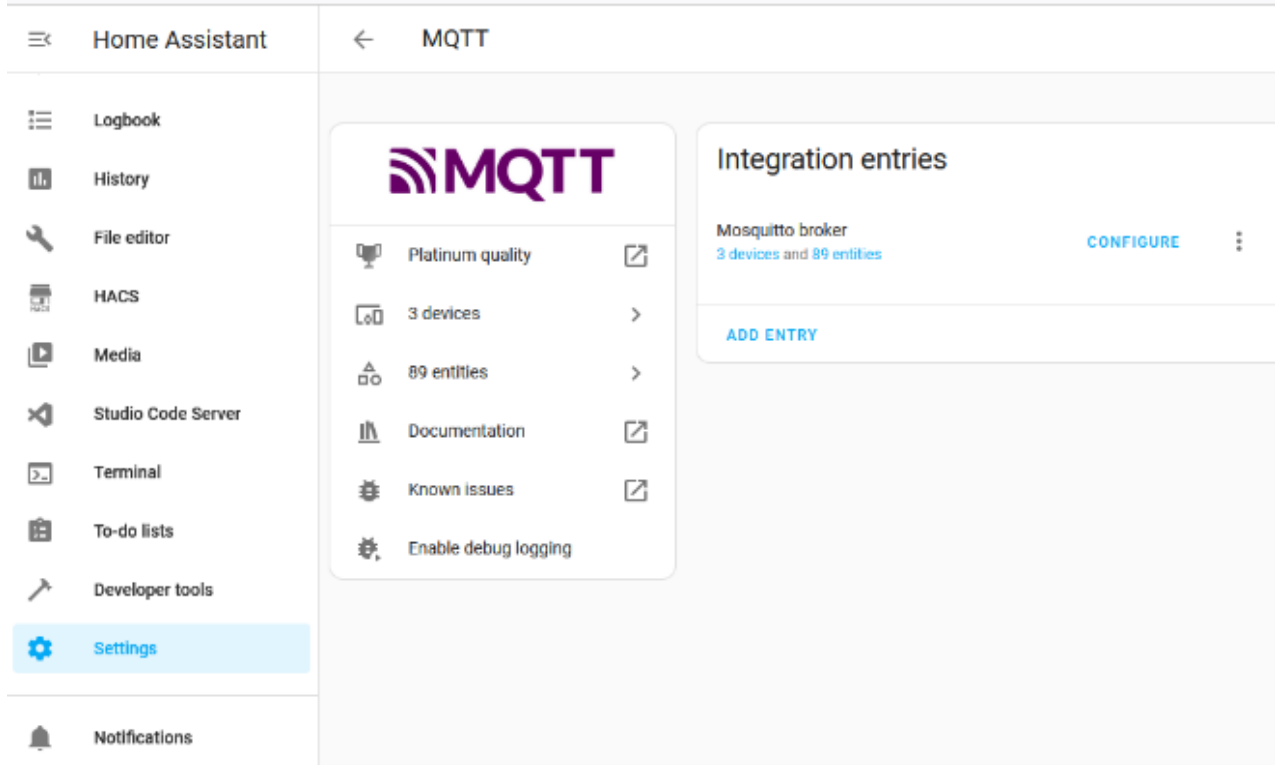
- Go to HA webpage (refer Step 1, above)
- Select the **Settings** tab then **Devices & Services**



- Click the Blue **ADD INTEGRATION** and search for **MQTT**
- Click the **MQTT** Integration to add to Home Assistant.
Home Assistant may auto detect MQTT Device and prompt you to accept the MQTT integration.
- After adding MQTT integration to HA. The MQTT Integration in HA should look like this:

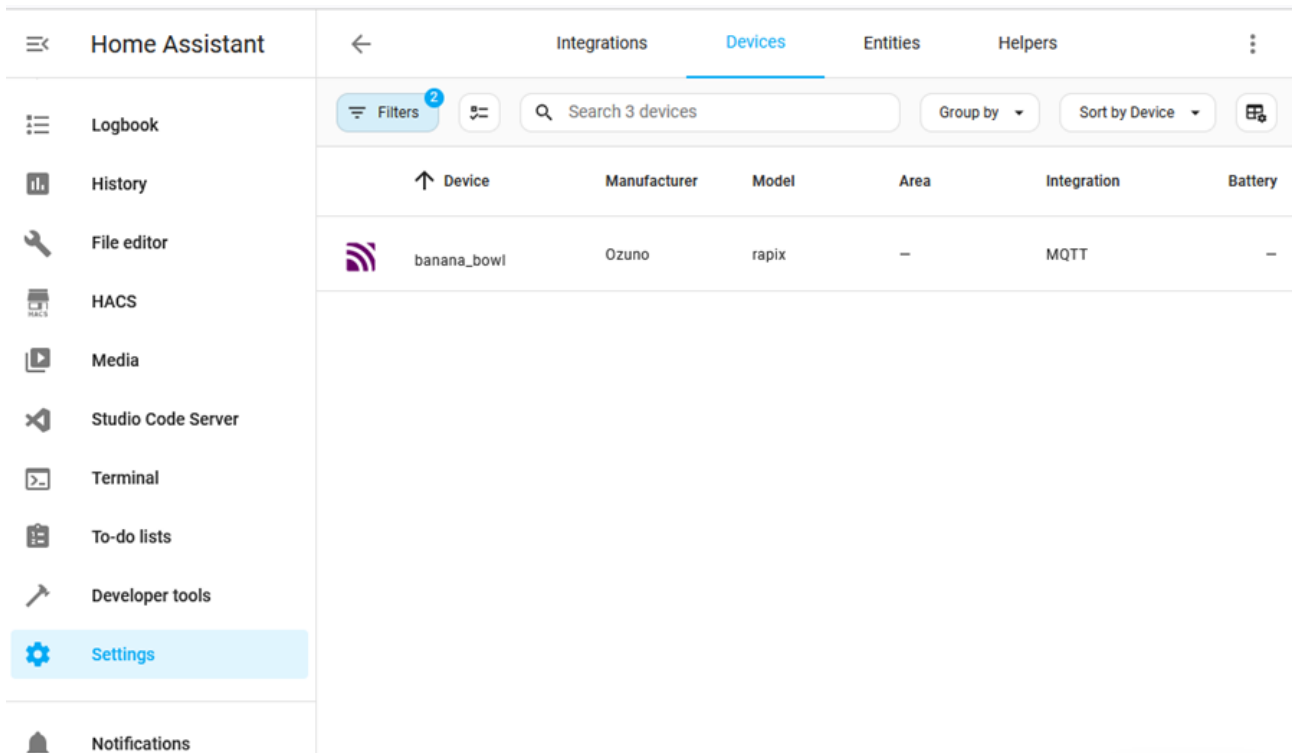


- f. You should only see one RAPIX MQTT Device.
- g. Click on the **MQTT Integration**, it will show the MQTT Integration entries:



The screenshot shows the Home Assistant interface with the MQTT integration selected. The left sidebar contains various tools like Logbook, History, File editor, HACS, Media, Studio Code Server, Terminal, To-do lists, Developer tools, and Settings. The main content area displays the MQTT integration details, including a list of integration entries (Mosquitto broker) and a section for MQTT integration entries with options like 'Platinum quality', '3 devices', '89 entities', 'Documentation', 'Known issues', and 'Enable debug logging'.

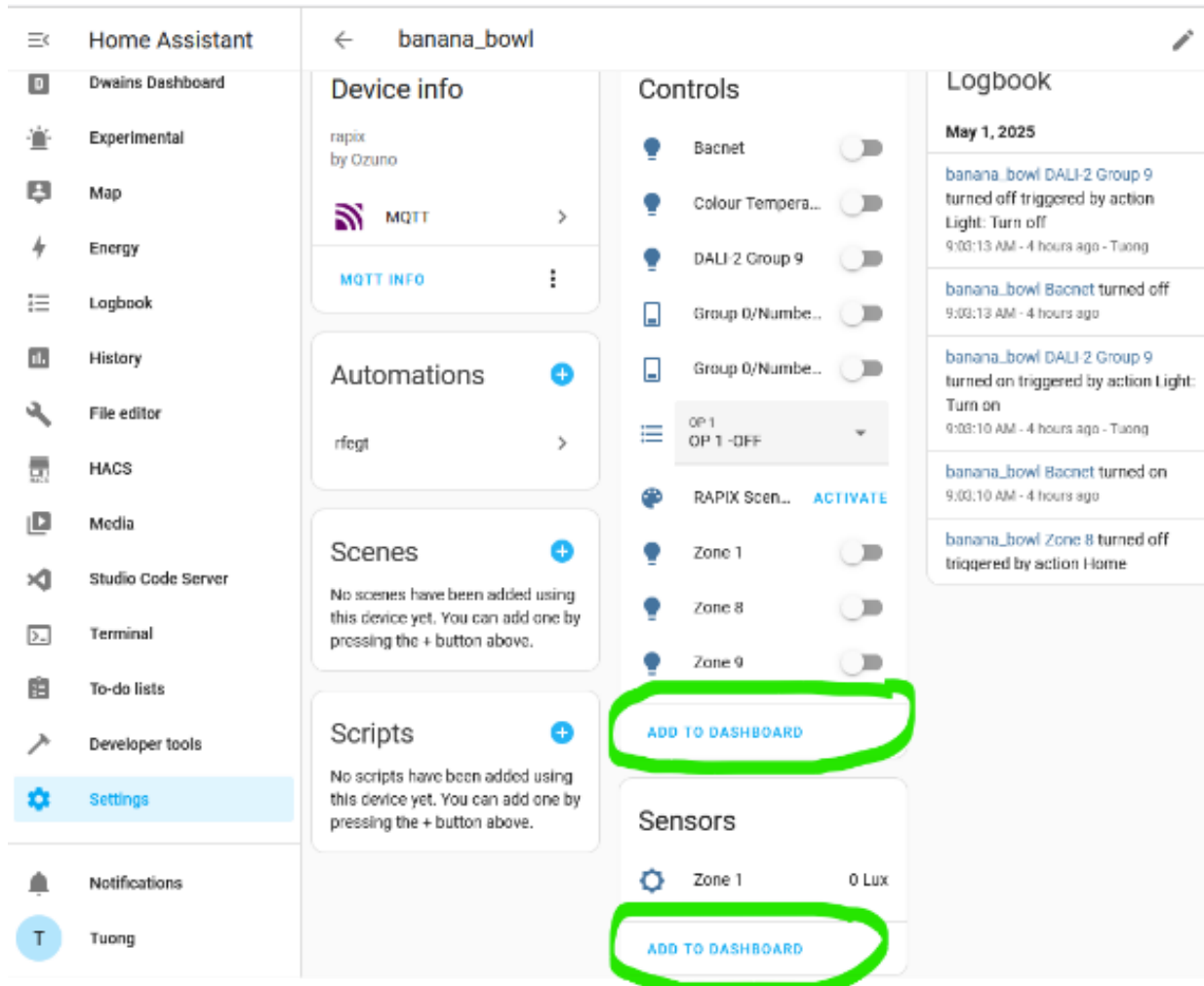
- h. Click on “**device**” and it will show ZC project as a device:



The screenshot shows the Home Assistant interface with the MQTT integration selected and the 'Devices' tab active. The left sidebar is the same as in the previous screenshot. The main content area displays a table of MQTT devices. The table has columns for Device, Manufacturer, Model, Area, Integration, and Battery. One device is listed: 'banana_bowl' by 'Ozuno' with model 'rapix'.

Device	Manufacturer	Model	Area	Integration	Battery
banana_bowl	Ozuno	rapix	—	MQTT	—

- i. Click on the RAPIX Zone Controller project device and it will show all Project Entities (Zones, Flag, Scene etc.).
- j. Add Zone Controller devices to HA Dashboard and control of all the Entities.



The screenshot displays the Home Assistant interface for a RAPIX Zone Controller device named 'banana_bowl'. The left sidebar shows the Home Assistant menu with 'Settings' highlighted. The main content area is divided into several sections:

- Device info:** Shows the device name 'banana_bowl', manufacturer 'rapix by Ozuno', and communication method 'MQTT'. A link for 'MQTT INFO' is provided.
- Automations:** A section with a '+' button and a link to 'rfcgt'.
- Scenes:** A section with a '+' button and a message: 'No scenes have been added using this device yet. You can add one by pressing the + button above.'
- Scripts:** A section with a '+' button and a message: 'No scripts have been added using this device yet. You can add one by pressing the + button above.'
- Controls:** A section containing various controls:
 - Bacnet: Toggle switch.
 - Colour Tempera...: Toggle switch.
 - DALI 2 Group 9: Toggle switch.
 - Group 0/Numbe...: Toggle switch.
 - Group 0/Numbe...: Toggle switch.
 - OP 1: Dropdown menu showing 'OP 1 - OFF'.
 - RAPIX Scen...: Button labeled 'ACTIVATE'.
 - Zone 1: Toggle switch.
 - Zone 8: Toggle switch.
 - Zone 9: Toggle switch.
- Sensors:** A section showing 'Zone 1' with a value of '0 Lux'. Below it is a button labeled 'ADD TO DASHBOARD'.
- Logbook:** A section showing a log of events for 'May 1, 2025':
 - 'banana_bowl DALI 2 Group 9 turned off triggered by action Light: Turn off' at 9:03:13 AM - 4 hours ago - Tuong.
 - 'banana_bowl Bacnet turned off' at 9:03:13 AM - 4 hours ago.
 - 'banana_bowl DALI 2 Group 9 turned on triggered by action Light: Turn on' at 9:03:10 AM - 4 hours ago - Tuong.
 - 'banana_bowl Bacnet turned on' at 9:03:10 AM - 4 hours ago.
 - 'banana_bowl Zone 8 turned off triggered by action Home'.

Two green circles highlight the 'ADD TO DASHBOARD' buttons in the Controls and Sensors sections.

Change History

Rev	Date	Updated By	Comment
1	7th Jan 2026	TV & DS	First Release

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