

# Easy MQTT automation with trivum

## MQTT automation with trivum

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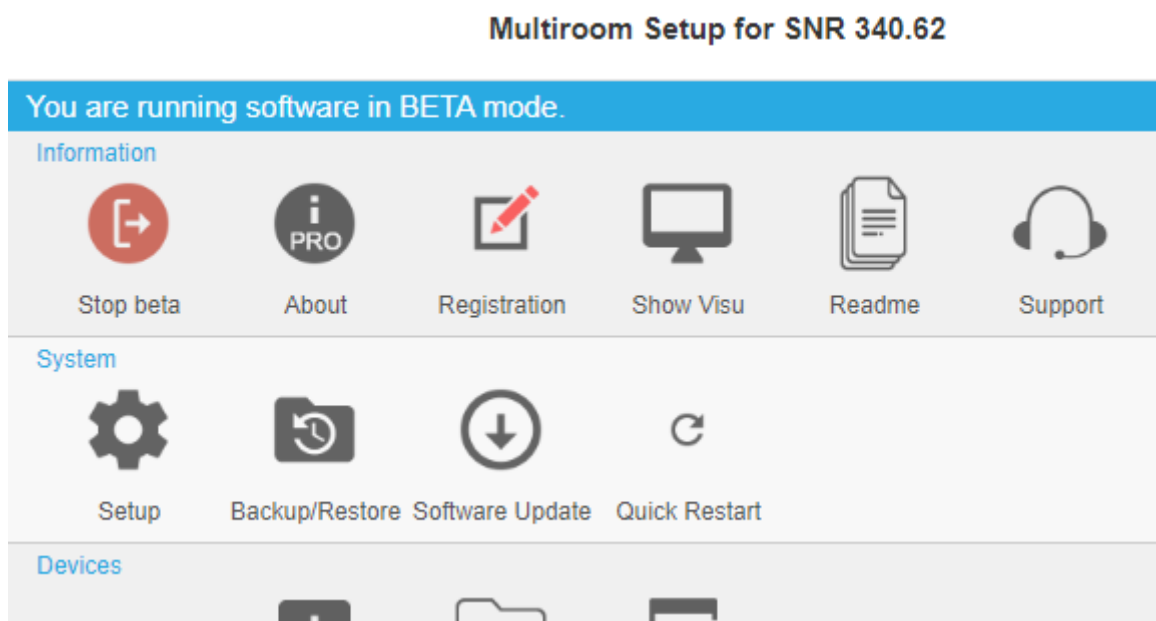
trivum technologies GmbH <[info@trivum.com](mailto:info@trivum.com)> v1.0, 2024-01-18 :title-logo-image: image::.../images/trivum-logo.svg[pdfwidth=150,align=right]

## 1. Install an MQTT broker, for example on the Raspi

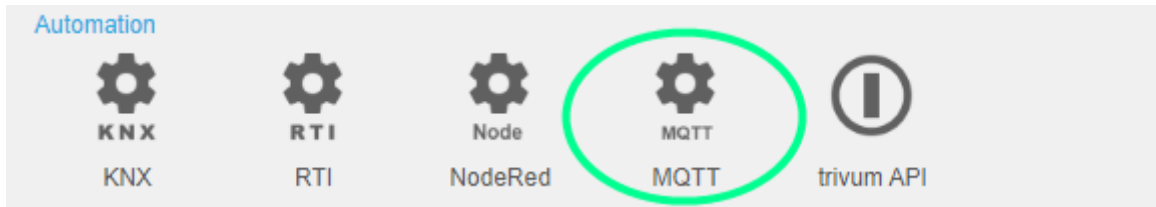
```
sudo apt-get install -y mosquitto mosquitto-clients
```

## 2. Send MQTT messages from trivum to the broker

- go into the trivum web configuration by typing <trivumip>/beta into your web browser, which also enables Beta features.



- enable MQTT under: **Automation / MQTT**



← **setupMQTT** ↻ 🌐 🗄

**MQTT SETUP**

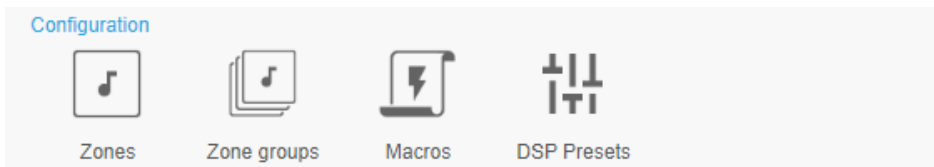
Use MQTT

Broker IP address  
change requires restart 192.168.1.87

Device topic prefix trivum

Enter the IP of your broker (Raspi). Keep the topic prefix. (trivum)

- create a Macro under: **Configuration / Macros** with a step: **send MQTT message**



← **editMacroStep** ? ↻ 🌐 🗄

**DEFINE MACROSTEP OF MACRO 'SEND-MQTT'**

Type of macrostep send MQTT message >

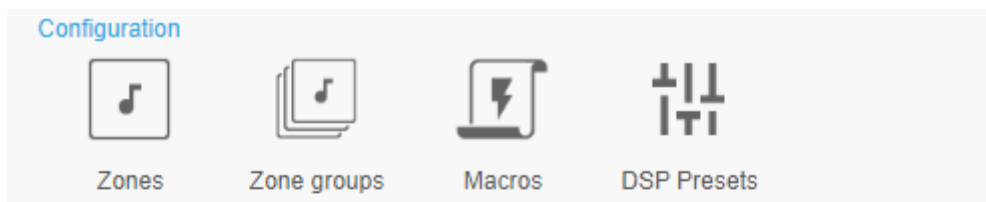
**PARAMETERS FOR 'SEND MQTT MESSAGE'**

Topic light/living/1/status/set

Value 1

Retain

- create a zone action under: **Configuration / zones / first zone / define actions**  
With action: run a macro, then select the above macro.



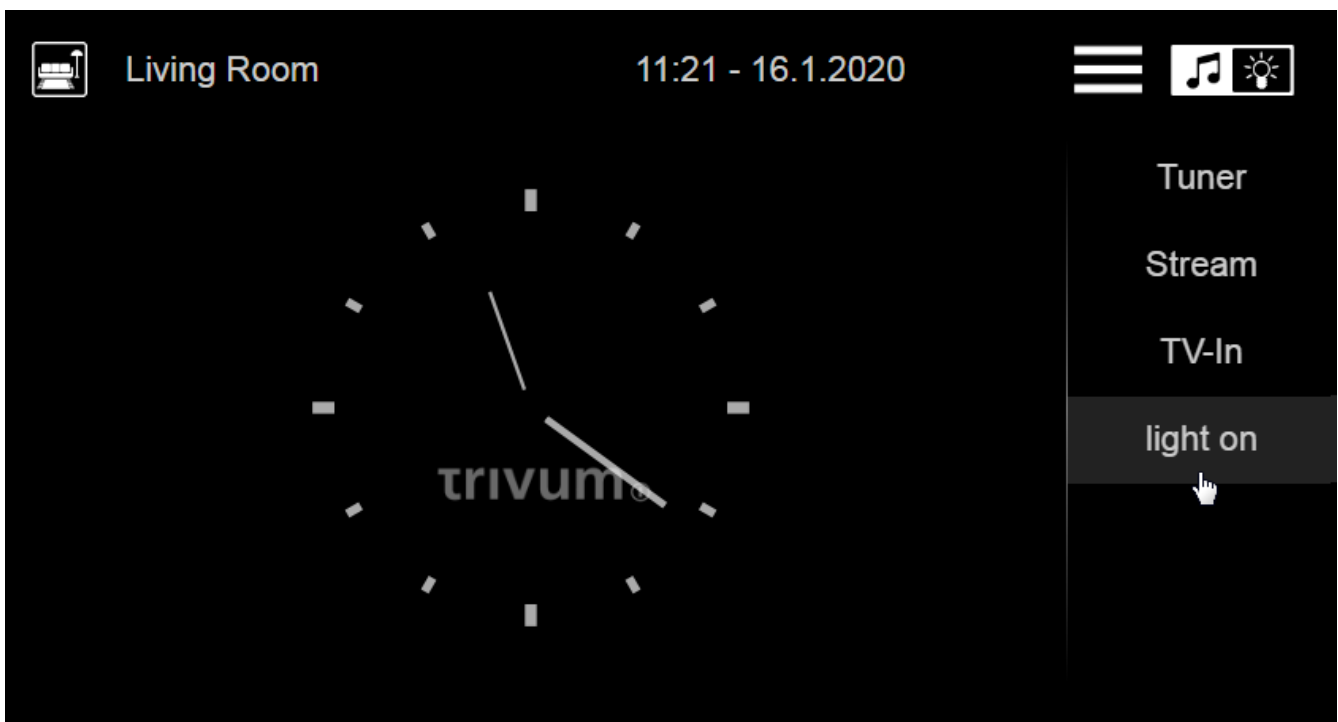
Define the zone related actions  
 These actions available TouchPads and Visus and system triggered actions

< **Select action**

Possible actions \* for forZone

- No action
- Activate a source
- Send command to a RTI control processor
- Run a macro (sequence of commands)

- open a web visualization:  
 In your web browser, open a new tab. Type the IP of trivum. Now you have a web visualization.



On first use it will control the first zone. At the right, the macro action appears.

- click or touch on the macro action. It will send the MQTT message.

Test receive directly on the Raspi like:

```
mosquitto_sub -h localhost -v -t "light/#"
```

which will show:

```
light/living/1/status/set 1
```

### 3. Control trivum by MQTT messages

In the trivum web configuration, a device topic prefix can be configured, which is **trivum** by default.

The trivum device then listens on these topics:

```
trivum/zone/1/status      - get status of first zone  
trivum/zone/1/status/set - set status of first zone
```

The zone status is an integer with these possible values:

```
0    - zone off  
1    - zone on (audible)  
2    - zone is muted (on but not audible)
```

So, if zone 1 is switched on or off, trivum sends `trivum/zone/1/status` with value 1 or 0.

To switch zone 1 on or off, send `trivum/zone/1/status/set` with value 1 or 0.