

Easy MQTT automation with trivum

MQTT automation with trivum

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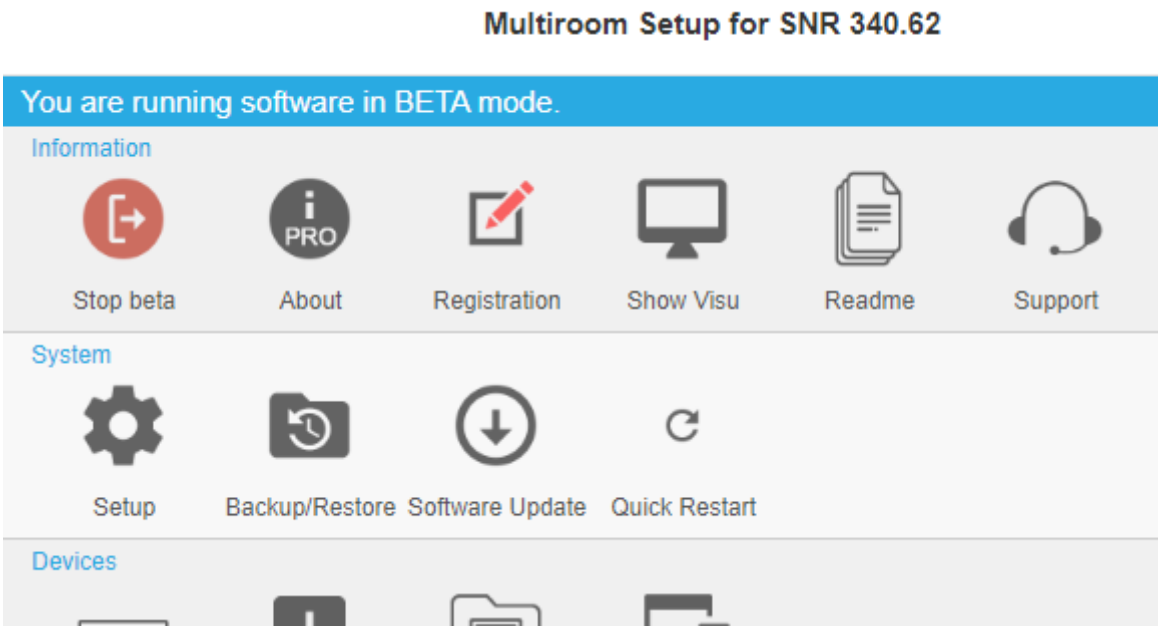
trivum technologies GmbH <info@trivum.com> v1.0, 2025-02-27 :title-logo-image: image::.../images/trivum-logo.svg[pdfwidth=150,align=right]

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

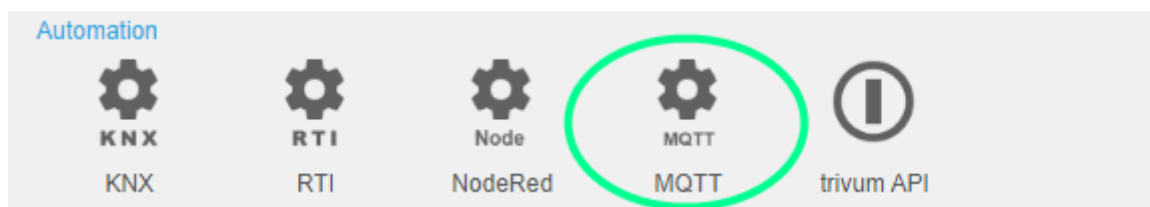
```
sudo apt-get install -y mosquitto mosquitto-clients
```

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

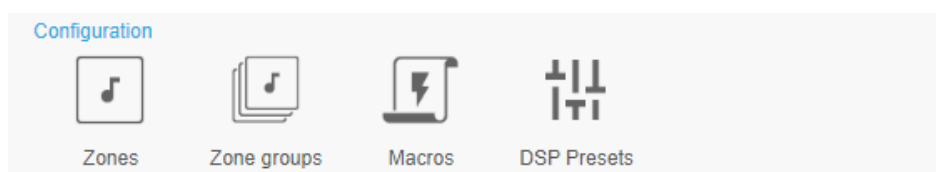
Use MQTT 🔘

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** >

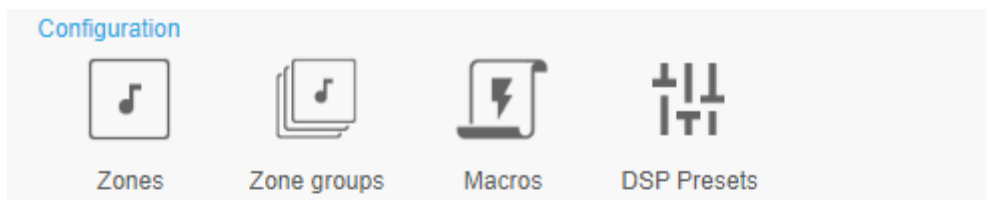
PARAMETERS FOR 'SEND MQTT MESSAGE'

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

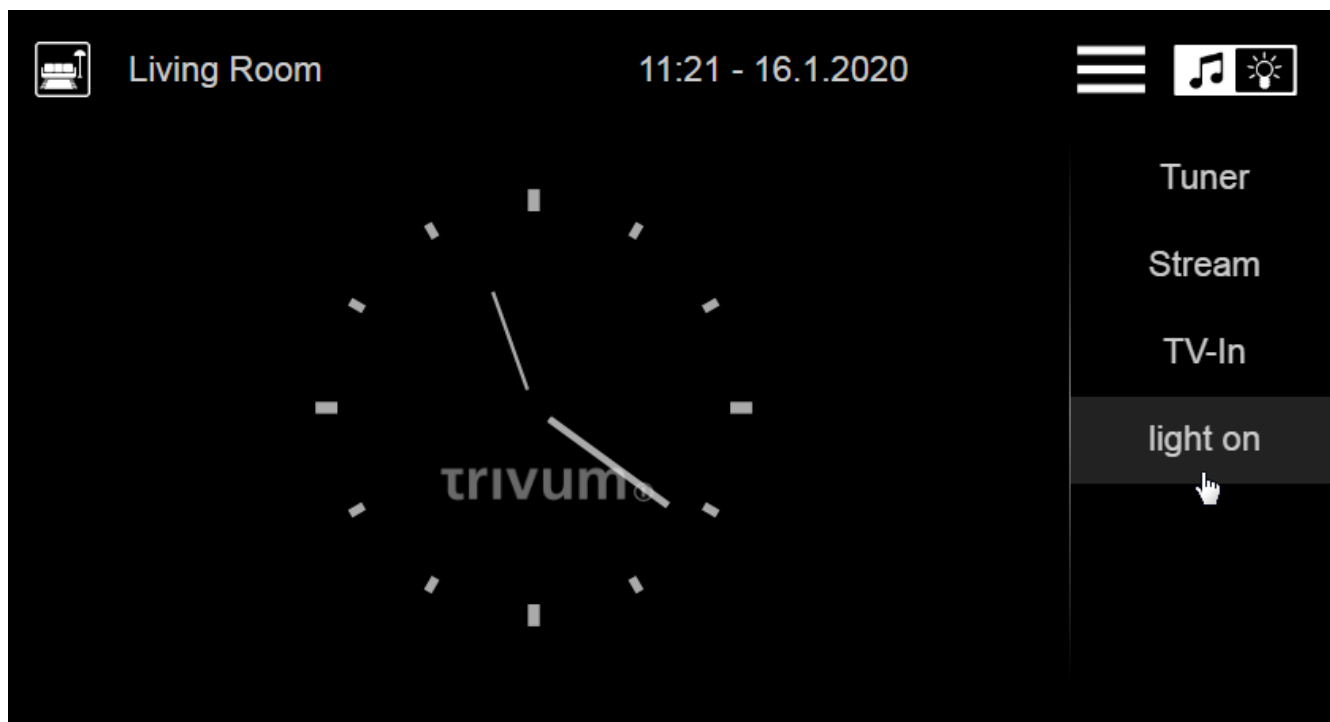


Run a macro (sequence of commands)



- 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.

3.1. trivum MQTT topics

The trivum device listens to or sends these topics:

topic	function	values
<code>trivum/zone/1/status/set</code> <code>trivum/zone/1/status</code>	set or get the status of a zone	0 = off 1 = on (audible) 2 = muted (on but not audible)
<code>trivum/zone/1</code> <code>/source/set/favorite</code>	play a favourite by number	1 = first favorite
<code>trivum/zone/1</code> <code>/source/set/linein</code>	play a line input by number	1 = first line input
<code>trivum/zone/1/volume/set</code> <code>trivum/zone/1/volume</code>	set zone volume, subscribe to volume	0 to 100
<code>trivum/zone/1/run/command</code>	run a numeric multi command	see multi command codes below

3.2. trivum multi command codes

These are the same as documented in the [trivum HTTP API](#)

For example, when sending **1** to topic `trivum/zone/1/run/command`, the first zone is switched off.

ZONECMD_POWER_OFF	001	
ZONECMD_MUTE	002	toggle mute
ZONECMD_POWER_TOGGLE	006	
ZONECMD_POWER_ON	007	
ZONECMD_MUTE_ON	680	
ZONECMD_MUTE_OFF	681	
ZONECMD_VOLUME_INC	003	

ZONECMD_VOLUME_DEC	004	
ZONECMD_VOLUME_INC2	009	
ZONECMD_VOLUME_DEC2	010	
ZONECMD_VOLUME_INC5	011	
ZONECMD_VOLUME_DEC5	012	
ZONECMD_ALLOFF	015	
ZONECMD_SNOOZE	017	
ZONECMD_USE_PREV_SOURCE	029	see Zones / zone / KNX/HTTP sources
ZONECMD_JOIN	030	
ZONECMD_UNJOIN	031	
ZONECMD_USE_NEXT_SOURCE	041	see Zones / zone / KNX/HTTP sources
ZONECMD_DEFAULT_LINEIN	048	play default line input of zone
ZONECMD_DEFAULT_STREAMING	050	play default streamer of zone
ZONECMD_DEFAULT_TUNER	051	play default tuner of zone
ZONECMD_VOLUME_DEC_1	080	
ZONECMD_VOLUME_DEC_10	089	
ZONECMD_VOLUME_INC_1	090	
ZONECMD_VOLUME_INC_10	099	
ZONECMD_START_MACRO_1	200	
ZONECMD_START_MACRO_100	299	
MULTIKEY_BASIC_FORWARD	400	skip to next track, preset
MULTIKEY_BASIC_BACKWARD	401	skip to prev. track, preset
MULTIKEY_BASIC_FASTFORWARD	402	
MULTIKEY_BASIC_FASTBACKWARD	403	
MULTIKEY_BASIC_PLAYPAUSE	406	
MULTIKEY_PLAY	431	
MULTIKEY_PAUSE	432	
MULTIKEY_STOP	433	
MULTIKEY_STATION_DOWN	490	
MULTIKEY_STATION_UP	491	
MULTIKEY_NEXT_ALBUM	493	
MULTIKEY_PREVIOUS_ALBUM	494	
MULTIKEY_NEXT_PLAYLIST	495	
MULTIKEY_PREVIOUS_PLAYLIST	496	
ZONECMD_START_PAGING_1	500	(use 500 + paging id)
ZONECMD_START_PAGING_32	531	
ZONECMD_STOP_PAGING_1	550	
ZONECMD_STOP_PAGING_32	581	
ZONECMD_STOP_PAGING_ALL	599	
ZONECMD_PRESET_1	600	
ZONECMD_PRESET_7	606	
ZONECMD_GROUP_START_1	621	
ZONECMD_GROUP_START_8	628	
ZONECMD_GROUP_STOP	630	
ZONECMD_GROUP_STOP_1	631	
ZONECMD_GROUP_STOP_8	638	
ZONECMD_GROUP_STOP_ALL	639	
ZONECMD_STREAMING_NOPLAY	641	
ZONECMD_VOLUME_00	900	
ZONECMD_VOLUME_99	999	
ZONECMD_ROOM_VOLUME_00	1000	

