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# Nodered aufsetzen

Der Faulheit halber nimmt man das [fertige C't Setup](#).

Nur leider crasht der NodeRed- Container beim Start, darum ersetzt man das C't Image im docker-compose.yml vor dem ersten Start dann doch mit dem Original von NodeRed und setzt die Ports und

Network modes wie in einer älteren Version, dann geht's jedenfalls 😊

[docker-compose.yml](#)

```
version: '3.6'

services:
  nodered:
    #image: ghcr.io/ct-open-source/ctnodered:latest
    image: nodered/node-red

    ports:
      - "1880:1880"
    volumes:
      - ./data/nodered:/data
      - /etc/localtime:/etc/localtime
    depends_on:
      - mqtt
    restart: always
#    network_mode: "host"
    environment:
      - TZ=Europe/Berlin

  mqtt:
    image: "eclipse-mosquitto"
    ports:
      - "1883:1883"
      - "9001:9001"
    volumes:
      - ./data/mqtt:/mosquitto
      - /etc/localtime:/etc/localtime
    restart: always
    environment:
      - TZ=Europe/Berlin

  zigbee:
    image: koenkk/zigbee2mqtt
    volumes:
      - ./data/zigbee:/app/data
      - /run/udev:/run/udev:ro
      - /etc/localtime:/etc/localtime
```

```
devices:
  - "/dev/ttyACM0:/dev/ttyACM0"
  - "/dev/ttyACM1:/dev/ttyACM1"
restart: always
privileged: true
ports:
  - 1881:1881
environment:
  - TZ=Europe/Berlin
```

Wenn man die ersten MQTT- Node einrichtet: Der lokale MQTT Server läuft dann auf dem Host mqtt und muß auch mit dem Namen als Server angegeben werden.

Beim Start mit `docker compose up nodered with nodered` über fehlende Schreibrechte im data-Folder meckern, das korrigiert man mit

```
sudo chmod a+rwX -R data
```

Die aktuelle Version von mosquitto beendet sich, wenn sie keine `config/mosquitto.conf` findet und lauscht per Default nur an localhost. Man muß die Config also erst bauen:

```
cd docker/nodered/data/mqtt
sudo mkdir -p config
sudo nano config/mosquitto.conf
```

mit dem Inhalt

```
listener 1883
allow_anonymous true
```

## Anbindung an Node-RED Smart Home Control

- Auf <https://red.cb-net.co.uk/new-user> einen User- Account holen
- Auf <https://red.cb-net.co.uk/devices> das erste Gerät einrichten
- Wie [beschrieben](#), die notwendigen Nodes installieren.

Wenn bis dahin alles geklappt hat, wird das Gerät als Device angezeigt, wenn man eine alexa-smart-home-v3 anlegt.

Wenn man dann die Google- Anbindung geschafft hat, kann man mit einer Debug- Node wunderbar die Node- Events reinkommen sehen, wenn man die Google Home Kommandos spricht

## Nützliche Nodes

[Timer in Dashboard](#)

[Hier der komplette Node-Red-Code](#)

```
[
  {
    "id": "806162448d18ac14",
    "type": "tab",
    "label": "Nachtlichter",
    "disabled": false,
    "info": "",
    "env": []
  },
  {
    "id": "d044ea01444a971e",
    "type": "tab",
    "label": "Morgensonne",
    "disabled": false,
    "info": "",
    "env": []
  },
  {
    "id": "67a1adb0.e42284",
    "type": "tab",
    "label": "Sunrise",
    "disabled": false,
    "info": ""
  },
  {
    "id": "8e566f01.3cb7e",
    "type": "tab",
    "label": "Nathalie Nachtlcht",
    "disabled": false,
    "info": ""
  },
  {
    "id": "d81b425e4d857f1d",
    "type": "tab",
    "label": "Vitrine",
    "disabled": false,
    "info": "",
    "env": []
  },
  {
    "id": "06e0f70d4768d26a",
    "type": "tab",
    "label": "Ladekontrolle",
    "disabled": false,
    "info": "",
    "env": []
  },
  {
    "id": "b9dc955b9fa84b3f",
    "type": "tab",
    "label": "Arbeitszimmer",
```

```
    "disabled": false,
    "info": "",
    "env": []
  },
  {
    "id": "a835cf98310dcb70",
    "type": "tab",
    "label": "SatIP Empfänger",
    "disabled": false,
    "info": "",
    "env": []
  },
  {
    "id": "128b9e6ffb5a44da",
    "type": "tab",
    "label": "Dashboard Morgenlichter",
    "disabled": false,
    "info": "",
    "env": []
  },
  {
    "id": "32c1fd5e.098ec2",
    "type": "tab",
    "label": "Zuul- Websocket",
    "disabled": false,
    "info": ""
  },
  {
    "id": "20f5b48f.283ffc",
    "type": "subflow",
    "name": "Timer Settings (2)",
    "info": "",
    "category": "",
    "in": [
      {
        "x": 500,
        "y": 320,
        "wires": [
          {
            "id": "dd09ea56.667bf8"
          }
        ]
      }
    ],
    "out": [
      {
        "x": 740,
        "y": 320,
        "wires": [
          {
            "id": "dd09ea56.667bf8",
```

```
        "port": 0
      }
    ]
  },
  "env": [
    {
      "name": "TimerNumber",
      "type": "num",
      "value": ""
    },
    {
      "name": "Payload0N",
      "type": "str",
      "value": ""
    },
    {
      "name": "Payload0FF",
      "type": "str",
      "value": ""
    }
  ],
  "color": "#DDAA99"
},
{
  "id": "059bca2abc83dd01",
  "type": "mqtt-broker",
  "name": "mqtt",
  "broker": "mqtt",
  "port": "1883",
  "clientId": "",
  "autoConnect": true,
  "usetls": false,
  "protocolVersion": "4",
  "keepalive": "60",
  "cleansession": true,
  "autoUnsubscribe": true,
  "birthTopic": "",
  "birthQos": "0",
  "birthPayload": "",
  "birthMsg": {},
  "closeTopic": "",
  "closeQos": "0",
  "closePayload": "",
  "closeMsg": {},
  "willTopic": "",
  "willQos": "0",
  "willPayload": "",
  "willMsg": {},
  "sessionExpiry": ""
},
```

```
{
  "id": "4025a95e85247f7b",
  "type": "websocket-client",
  "path": "ws://zuulac:8000/",
  "tls": "",
  "wholemsg": "false",
  "hb": "0",
  "subprotocol": ""
},
{
  "id": "84ca84997ca40b2b",
  "type": "alexa-smart-home-v3-conf",
  "username": "steffenkoehler",
  "mqttserver": "mq-red.cb-net.co.uk",
  "webapiurl": "red.cb-net.co.uk",
  "contextName": "memory"
},
{
  "id": "f68a58dad3a415d7",
  "type": "ui-base",
  "name": "My Dashboard",
  "path": "/dashboard",
  "appIcon": "",
  "includeClientData": true,
  "acceptsClientConfig": [
    "ui-notification",
    "ui-control"
  ],
  "showPathInSidebar": false,
  "headerContent": "page",
  "navigationStyle": "default",
  "titleBarStyle": "default",
  "showReconnectNotification": true,
  "notificationDisplayTime": 1,
  "showDisconnectNotification": true,
  "allowInstall": true
},
{
  "id": "6b4a8aa538269f22",
  "type": "ui-theme",
  "name": "Default Theme",
  "colors": {
    "surface": "#ffffff",
    "primary": "#0094CE",
    "bgPage": "#eeeeee",
    "groupBg": "#ffffff",
    "groupOutline": "#cccccc"
  },
  "sizes": {
    "density": "default",
    "pagePadding": "12px",
```

```
        "groupGap": "12px",
        "groupBorderRadius": "4px",
        "widgetGap": "12px"
    }
},
{
    "id": "faa61e092a1033e6",
    "type": "ui-page",
    "name": "Lichter",
    "ui": "f68a58dad3a415d7",
    "path": "/page1",
    "icon": "home",
    "layout": "grid",
    "theme": "6b4a8aa538269f22",
    "breakpoints": [
        {
            "name": "Default",
            "px": "0",
            "cols": "3"
        },
        {
            "name": "Tablet",
            "px": "576",
            "cols": "6"
        },
        {
            "name": "Small Desktop",
            "px": "768",
            "cols": "9"
        },
        {
            "name": "Desktop",
            "px": "1024",
            "cols": "12"
        }
    ],
    "order": 1,
    "className": "",
    "visible": "true",
    "disabled": "false"
},
{
    "id": "a08df7b2703d7adf",
    "type": "ui-group",
    "name": "Schalter",
    "page": "faa61e092a1033e6",
    "width": 6,
    "height": 1,
    "order": 1,
    "showTitle": true,
    "className": "",
```

```
    "visible": "true",
    "disabled": "false",
    "groupType": "default"
  },
  {
    "id": "dd09ea56.667bf8",
    "type": "function",
    "z": "20f5b48f.283ffc",
    "name": "",
    "func": "var x = env.get(\"TimerNumber\"); \nvar y =
env.get(\"PayloadON\"); \nvar z = env.get(\"PayloadOFF\");
\n\nflow.set(\"$parent.Timer\"+x,
x);\nflow.set(\"$parent.Payload\"+x+\"_on\",
y);\nflow.set(\"$parent.Payload\"+x+\"_off\", z);\n\n\n\nmsg.payload =
\n\"Your timer \" + x + \" has been set\";\n\nreturn msg;\n",
    "outputs": 1,
    "noerr": 0,
    "x": 600,
    "y": 320,
    "wires": [
      []
    ]
  },
  {
    "id": "dd504f7211099e5f",
    "type": "schedex",
    "z": "806162448d18ac14",
    "name": "Dunkelheit",
    "passthroughunhandled": false,
    "suspended": false,
    "lat": "53.327275",
    "lon": "8.477777",
    "ontime": "21:45",
    "ontopic": "",
    "onpayload": "ON",
    "onoffset": 0,
    "onrandomoffset": 0,
    "offtime": "sunrise",
    "offtopic": "",
    "offpayload": "OFF",
    "offoffset": 0,
    "offrandomoffset": 0,
    "mon": true,
    "tue": true,
    "wed": true,
    "thu": true,
    "fri": true,
    "sat": true,
    "sun": true,
    "x": 370,
    "y": 80,
```

```
    "wires": [
      [
        "8896526d3968af27"
      ]
    ]
  },
  {
    "id": "f89cb08278b19366",
    "type": "link out",
    "z": "806162448d18ac14",
    "name": "Abends",
    "mode": "link",
    "links": [],
    "x": 1025,
    "y": 120,
    "wires": []
  },
  {
    "id": "db71b6d178e1f608",
    "type": "switch",
    "z": "806162448d18ac14",
    "name": "An und Aus",
    "property": "payload",
    "propertyType": "msg",
    "rules": [
      {
        "t": "true"
      },
      {
        "t": "false"
      }
    ],
    "checkall": "true",
    "repair": false,
    "outputs": 2,
    "x": 870,
    "y": 140,
    "wires": [
      [
        "f89cb08278b19366"
      ],
      [
        "c3a7a8cb9d0e9066"
      ]
    ]
  },
  {
    "id": "c3a7a8cb9d0e9066",
    "type": "link out",
    "z": "806162448d18ac14",
    "name": "Morgens",
```

```
    "mode": "link",
    "links": [
      "26cc962b9d3bfc79",
      "6a33b4045fa24a5c",
      "f2493ce1650268f2"
    ],
    "x": 1025,
    "y": 160,
    "wires": []
  },
  {
    "id": "427d398252fc6ea6",
    "type": "link out",
    "z": "806162448d18ac14",
    "name": "Dunkelheit",
    "mode": "link",
    "links": [
      "fa74251f3690f52d"
    ],
    "x": 1105,
    "y": 80,
    "wires": []
  },
  {
    "id": "227713a38e9c3fb2",
    "type": "alexa-smart-home-v3",
    "z": "806162448d18ac14",
    "conf": "84ca84997ca40b2b",
    "device": "39313",
    "acknowledge": true,
    "name": "Morgensonne",
    "topic": "Sonne",
    "x": 490,
    "y": 280,
    "wires": [
      [
        "3903df5baa7e7504",
        "fe656d0e17f4f7d0"
      ]
    ]
  },
  {
    "id": "3903df5baa7e7504",
    "type": "debug",
    "z": "806162448d18ac14",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
```

```
    "statusVal": "",
    "statusType": "auto",
    "x": 690,
    "y": 400,
    "wires": []
  },
  {
    "id": "39c6967ec7775363",
    "type": "switch",
    "z": "806162448d18ac14",
    "name": "ON-OFF",
    "property": "payload",
    "propertyType": "msg",
    "rules": [
      {
        "t": "true"
      },
      {
        "t": "false"
      }
    ],
    "checkall": "true",
    "repair": false,
    "outputs": 2,
    "x": 940,
    "y": 280,
    "wires": [
      [
        "90a61768daa0b5f6"
      ],
      [
        "2a9339433f2b2d8f"
      ]
    ]
  },
  {
    "id": "90a61768daa0b5f6",
    "type": "link out",
    "z": "806162448d18ac14",
    "name": "Morgensonne An",
    "mode": "link",
    "links": [
      "f2493ce1650268f2",
      "dd715b75ba033f3e"
    ],
    "x": 1095,
    "y": 280,
    "wires": []
  },
  {
    "id": "2a9339433f2b2d8f",
```

```
    "type": "link out",
    "z": "806162448d18ac14",
    "name": "Morgensonne Aus",
    "mode": "link",
    "links": [
      "6a33b4045fa24a5c",
      "f2493ce1650268f2"
    ],
    "x": 1095,
    "y": 320,
    "wires": []
  },
  {
    "id": "5f38f775dfbeaa9c",
    "type": "inject",
    "z": "806162448d18ac14",
    "name": "Aktuelle On/Off Abfrage",
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ],
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "",
    "payload": "info_local",
    "payloadType": "str",
    "x": 120,
    "y": 80,
    "wires": [
      [
        "dd504f7211099e5f"
      ]
    ]
  },
  {
    "id": "5f4aed668c312586",
    "type": "debug",
    "z": "806162448d18ac14",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
```

```
    "statusVal": "",
    "statusType": "auto",
    "x": 850,
    "y": 40,
    "wires": []
  },
  {
    "id": "daa0f2e77175b08e",
    "type": "inject",
    "z": "806162448d18ac14",
    "name": "Dunkelheit OFF",
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ],
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "",
    "payload": "OFF",
    "payloadType": "str",
    "x": 100,
    "y": 140,
    "wires": [
      [
        "dd504f7211099e5f"
      ]
    ]
  },
  {
    "id": "f5c4577f9a766627",
    "type": "debug",
    "z": "806162448d18ac14",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "statusVal": "",
    "statusType": "auto",
    "x": 730,
    "y": 220,
    "wires": []
  },
```

```
{
  "id": "4e2d2c2d49f4f418",
  "type": "function",
  "z": "806162448d18ac14",
  "name": "Treshold Ping failures",
  "func": "\nvar previous = context.get('ping_treshold')||0;\nvar
trigger_level = 120 // 120 ticks a 6 ticks per min = 20 mins delay\nif (
msg.payload === false){\n  if (previous< trigger_level){\n    previous
++\n    if (previous >= trigger_level){\n      // negative
trigger\n      previous=trigger_level\n
context.set('ping_treshold',previous)\n      msg.payload=false\n
return msg // returns false as falling edge\n    }\n
context.set('ping_treshold',previous)\n  }\n}else{\n  if (previous >
0){\n    previous=0 \n    // positive trigger\n
context.set('ping_treshold',previous)\n    msg.payload=true\n
return msg\n  }\n}\nreturn null\n",
  "outputs": 1,
  "timeout": "",
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 420,
  "y": 180,
  "wires": [
    [
      "f5c4577f9a766627",
      "72f133dddbb8e1c6"
    ]
  ]
},
{
  "id": "5f6ed5a33d387b50",
  "type": "ping",
  "z": "806162448d18ac14",
  "protocol": "Automatic",
  "mode": "timed",
  "name": "",
  "host": "Pixel-8",
  "timer": "20",
  "inputs": 0,
  "x": 70,
  "y": 180,
  "wires": [
    [
      "4e2d2c2d49f4f418"
    ]
  ]
},
{
  "id": "8896526d3968af27",
```

```
    "type": "change",
    "z": "806162448d18ac14",
    "name": "ONOFF to Bool",
    "rules": [
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "ON",
        "fromt": "str",
        "to": "true",
        "tot": "bool"
      },
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "OFF",
        "fromt": "str",
        "to": "false",
        "tot": "bool"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 600,
    "y": 80,
    "wires": [
      [
        "427d398252fc6ea6",
        "5f4aed668c312586",
        "db71b6d178e1f608"
      ]
    ]
  },
  {
    "id": "fe656d0e17f4f7d0",
    "type": "change",
    "z": "806162448d18ac14",
    "name": "ONOFF to Bool",
    "rules": [
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "ON",
        "fromt": "str",
        "to": "true",
```

```
        "tot": "bool"
      },
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "OFF",
        "fromt": "str",
        "to": "false",
        "tot": "bool"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 740,
    "y": 280,
    "wires": [
      [
        "39c6967ec7775363"
      ]
    ]
  },
  {
    "id": "72f133dddbb8e1c6",
    "type": "switch",
    "z": "806162448d18ac14",
    "name": "Allow only FALSE message",
    "property": "payload",
    "propertyType": "msg",
    "rules": [
      {
        "t": "false"
      }
    ],
    "checkall": "true",
    "repair": false,
    "outputs": 1,
    "x": 740,
    "y": 180,
    "wires": [
      [
        "c3a7a8cb9d0e9066"
      ]
    ]
  },
  {
    "id": "08df6f023ea8dc6b",
    "type": "mqtt out",
```

```
    "z": "d044ea01444a971e",
    "name": "Morgensonne",
    "topic": "home/sunrise1/set",
    "qos": "",
    "retain": "",
    "respTopic": "",
    "contentType": "",
    "userProps": "",
    "correl": "",
    "expiry": "",
    "broker": "059bca2abc83dd01",
    "x": 1560,
    "y": 620,
    "wires": []
  },
  {
    "id": "4926620580762ce5",
    "type": "inject",
    "z": "d044ea01444a971e",
    "name": "",
    "props": [
      {
        "p": "payload",
        "v": "{\\"state\\":\\"ON\\"}",
        "vt": "json"
      },
      {
        "p": "topic",
        "v": "",
        "vt": "str"
      }
    ],
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "",
    "payload": "{\\"state\\":\\"ON\\"}",
    "payloadType": "json",
    "x": 930,
    "y": 720,
    "wires": [
      [
        "1464bde8027b0004"
      ]
    ]
  },
  {
    "id": "6e8216935c42e810",
    "type": "inject",
    "z": "d044ea01444a971e",
```

```
    "name": "",
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ],
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "",
    "payload": "{\\"state\\":\\"OFF\\"}",
    "payloadType": "json",
    "x": 920,
    "y": 800,
    "wires": [
      [
        "1464bde8027b0004"
      ]
    ]
  },
  {
    "id": "dd715b75ba033f3e",
    "type": "link in",
    "z": "d044ea01444a971e",
    "name": "Sonnenaufgang An",
    "links": [
      "90a61768daa0b5f6",
      "b812abcfd391d30"
    ],
    "x": 195,
    "y": 620,
    "wires": [
      [
        "b3f70f0813abc7c6"
      ]
    ]
  },
  {
    "id": "6a33b4045fa24a5c",
    "type": "link in",
    "z": "d044ea01444a971e",
    "name": "Sonne aus",
    "links": [
      "2a9339433f2b2d8f",
      "c3a7a8cb9d0e9066"
    ],
  },
```

```

    "x": 845,
    "y": 580,
    "wires": [
      [
        "b7be36446f2f8e9d"
      ]
    ]
  },
  {
    "id": "aefc43ca878864ba",
    "type": "mqtt in",
    "z": "d044ea01444a971e",
    "name": "",
    "topic": "home/sunrise1",
    "qos": "2",
    "datatype": "json",
    "broker": "059bca2abc83dd01",
    "nl": false,
    "rap": false,
    "inputs": 0,
    "x": 180,
    "y": 300,
    "wires": [
      [
        "e70d130e6ede457a",
        "5c6263f34f1cc806"
      ]
    ]
  },
  {
    "id": "e5120db2242d1916",
    "type": "function",
    "z": "d044ea01444a971e",
    "name": "ChangedState",
    "func": "var previous = context.get('previous')||'';\nvar
msg_state=msg.payload.state\nif (previous!= msg_state){\n
context.set('previous',msg_state);\n    msg.payload=msg_state;\n    return
msg;\n}else{\n    return null;\n}",
    "outputs": 1,
    "timeout": "",
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 400,
    "y": 380,
    "wires": [
      [
        "74c89caddb018cce"
      ]
    ]
  ]
}

```

```
},
{
  "id": "e029be296f1ef9a9",
  "type": "inject",
  "z": "d044ea01444a971e",
  "name": "Sunrise Movie",
  "props": [
    {
      "p": "payload"
    },
    {
      "p": "topic",
      "vt": "str"
    }
  ],
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "{\\"effect\\":\\"sunrise\\",\\"transition\\":\\"600\\"}",
  "payloadType": "json",
  "x": 930,
  "y": 760,
  "wires": [
    [
      "1464bde8027b0004"
    ]
  ]
},
{
  "id": "d3e4cb9ab0f34fdf",
  "type": "change",
  "z": "d044ea01444a971e",
  "name": "Switch 0N",
  "rules": [
    {
      "t": "set",
      "p": "payload",
      "pt": "msg",
      "to": "true",
      "tot": "bool"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
  "x": 570,
  "y": 460,
```

```
    "wires": [
      [
        "d7203ba84b2cd31f",
        "0c36fc7b7736a319"
      ]
    ]
  },
  {
    "id": "b3f70f0813abc7c6",
    "type": "change",
    "z": "d044ea01444a971e",
    "name": "Request Sunrise",
    "rules": [
      {
        "t": "set",
        "p": "payload",
        "pt": "msg",
        "to": "{\\"effect\\":\\"sunrise\\",\\"transition\\":\\"600\\"}",
        "tot": "str"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 330,
    "y": 620,
    "wires": [
      [
        "d3e4cb9ab0f34fdf",
        "1464bde8027b0004"
      ]
    ]
  },
  {
    "id": "74c89caddb018cce",
    "type": "change",
    "z": "d044ea01444a971e",
    "name": "ONOFF to Bool",
    "rules": [
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "ON",
        "fromt": "str",
        "to": "true",
        "tot": "bool"
      }
    ],
  }
```

```
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "OFF",
        "fromt": "str",
        "to": "false",
        "tot": "bool"
    }
],
"action": "",
"property": "",
"from": "",
"to": "",
"reg": false,
"x": 600,
"y": 380,
"wires": [
    [
        "d7203ba84b2cd31f",
        "616848466ff2e8d2"
    ]
]
},
{
    "id": "b7be36446f2f8e9d",
    "type": "change",
    "z": "d044ea01444a971e",
    "name": "bool to State",
    "rules": [
        {
            "t": "change",
            "p": "payload",
            "pt": "msg",
            "from": "true",
            "fromt": "bool",
            "to": "{\"state\": \"ON\"}",
            "tot": "json"
        },
        {
            "t": "change",
            "p": "payload",
            "pt": "msg",
            "from": "false",
            "fromt": "bool",
            "to": "{\"state\": \"OFF\"}",
            "tot": "json"
        }
    ],
    "action": "",
    "property": "",
    "from": "",
```

```
    "to": "",
    "reg": false,
    "x": 1070,
    "y": 460,
    "wires": [
      [
        "1464bde8027b0004"
      ]
    ]
  },
  {
    "id": "d7203ba84b2cd31f",
    "type": "ui-switch",
    "z": "d044ea01444a971e",
    "name": "Morgensonne",
    "label": "Morgensonne",
    "group": "a08df7b2703d7adf",
    "order": 9,
    "width": 0,
    "height": 0,
    "passthru": false,
    "decouple": false,
    "topic": "payload",
    "topicType": "msg",
    "style": "",
    "className": "",
    "layout": "row-spread",
    "clickableArea": "switch",
    "onvalue": "true",
    "onvalueType": "bool",
    "onicon": "",
    "oncolor": "",
    "offvalue": "false",
    "offvalueType": "bool",
    "officon": "",
    "offcolor": "",
    "x": 800,
    "y": 460,
    "wires": [
      [
        "b7be36446f2f8e9d",
        "231a6371e2b10277"
      ]
    ]
  },
  {
    "id": "4755f75988167ecd",
    "type": "ui-button",
    "z": "d044ea01444a971e",
    "group": "a08df7b2703d7adf",
    "name": "Effekt 1",
```

```
    "label": "Effekt 1",
    "order": 3,
    "width": 0,
    "height": 0,
    "emulateClick": false,
    "tooltip": "",
    "color": "",
    "bgcolor": "",
    "className": "",
    "icon": "",
    "iconPosition": "left",
    "payload": "",
    "payloadType": "str",
    "topic": "topic",
    "topicType": "msg",
    "buttonColor": "",
    "textColor": "",
    "iconColor": "",
    "enableClick": true,
    "enablePointerdown": false,
    "pointerdownPayload": "",
    "pointerdownPayloadType": "str",
    "enablePointerup": false,
    "pointerupPayload": "",
    "pointerupPayloadType": "str",
    "x": 960,
    "y": 880,
    "wires": [
      [
        "1464bde8027b0004"
      ]
    ]
  },
  {
    "id": "458d2ac841454277",
    "type": "ui-button",
    "z": "d044ea01444a971e",
    "group": "a08df7b2703d7adf",
    "name": "Effekt 2",
    "label": "Effekt 2",
    "order": 2,
    "width": 0,
    "height": 0,
    "emulateClick": false,
    "tooltip": "",
    "color": "",
    "bgcolor": "",
    "className": "",
    "icon": "",
    "iconPosition": "left",
    "payload": "",
```

```
    "payloadType": "str",
    "topic": "topic",
    "topicType": "msg",
    "buttonColor": "",
    "textColor": "",
    "iconColor": "",
    "enableClick": true,
    "enablePointerdown": false,
    "pointerdownPayload": "",
    "pointerdownPayloadType": "str",
    "enablePointerup": false,
    "pointerupPayload": "",
    "pointerupPayloadType": "str",
    "x": 960,
    "y": 940,
    "wires": [
      [
        "1464bde8027b0004"
      ]
    ]
  },
  {
    "id": "911823150a09f3bc",
    "type": "ui-button",
    "z": "d044ea01444a971e",
    "group": "a08df7b2703d7adf",
    "name": "Effekt 3",
    "label": "Effekt 3",
    "order": 1,
    "width": 0,
    "height": 0,
    "emulateClick": false,
    "tooltip": "",
    "color": "",
    "bgcolor": "",
    "className": "",
    "icon": "",
    "iconPosition": "left",
    "payload": "",
    "payloadType": "str",
    "topic": "topic",
    "topicType": "msg",
    "buttonColor": "",
    "textColor": "",
    "iconColor": "",
    "enableClick": true,
    "enablePointerdown": false,
    "pointerdownPayload": "",
    "pointerdownPayloadType": "str",
    "enablePointerup": false,
    "pointerupPayload": "",
```

```
    "pointerupPayloadType": "str",
    "x": 960,
    "y": 1000,
    "wires": [
      [
        "1464bde8027b0004"
      ]
    ]
  },
  {
    "id": "616848466ff2e8d2",
    "type": "debug",
    "z": "d044ea01444a971e",
    "name": "debug 1",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "statusVal": "",
    "statusType": "auto",
    "x": 820,
    "y": 300,
    "wires": []
  },
  {
    "id": "231a6371e2b10277",
    "type": "debug",
    "z": "d044ea01444a971e",
    "name": "debug 2",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "statusVal": "",
    "statusType": "auto",
    "x": 820,
    "y": 360,
    "wires": []
  },
  {
    "id": "e70d130e6ede457a",
    "type": "debug",
    "z": "d044ea01444a971e",
    "name": "debug 3",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
```

```
    "statusVal": "",
    "statusType": "auto",
    "x": 680,
    "y": 180,
    "wires": []
  },
  {
    "id": "0c36fc7b7736a319",
    "type": "debug",
    "z": "d044ea01444a971e",
    "name": "debug 5",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "statusVal": "",
    "statusType": "auto",
    "x": 700,
    "y": 560,
    "wires": []
  },
  {
    "id": "1464bde8027b0004",
    "type": "function",
    "z": "d044ea01444a971e",
    "name": "store state in Flow",
    "func": "flow.set(\"state\", msg.payload.state);\nreturn msg;",
    "outputs": 1,
    "timeout": 0,
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 1310,
    "y": 620,
    "wires": [
      [
        "08df6f023ea8dc6b",
        "1469e0fefc27aa2f"
      ]
    ]
  },
  {
    "id": "1469e0fefc27aa2f",
    "type": "debug",
    "z": "d044ea01444a971e",
    "name": "Morgensonne Input",
    "active": true,
    "tosidebar": true,
    "console": false,
```

```
    "tostatus": false,
    "complete": "payload",
    "targetType": "msg",
    "statusVal": "",
    "statusType": "auto",
    "x": 1550,
    "y": 460,
    "wires": []
  },
  {
    "id": "5c6263f34f1cc806",
    "type": "function",
    "z": "d044ea01444a971e",
    "name": "react on wrong state",
    "func": "var correct_state =
flow.get('state');\nnode.warn(correct_state);\nvar
msg_state=msg.payload.state\nif (correct_state == \"OFF\" && msg_state
==\"ON\"){\n  msg.payload=false; // try to switch the lamp off again\n
node.warn(\"Try to switch off\");\n  return [null, msg];\n}else{\n
return [msg, null];\n}",
    "outputs": 2,
    "timeout": "",
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
    "x": 580,
    "y": 60,
    "wires": [
      [
        "e5120db2242d1916"
      ],
      [
        "b7be36446f2f8e9d"
      ]
    ]
  },
  {
    "id": "3fec84a9.e74f6c",
    "type": "inject",
    "z": "67a1adb0.e42284",
    "name": "",
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ]
  },
],
```

```
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "",
    "payload": "{\"effect\":\"sunrise\",\"transition\":600}",
    "payloadType": "json",
    "x": 280,
    "y": 200,
    "wires": [
      [
        "163d12b6.a7b6fd"
      ]
    ]
  },
  {
    "id": "163d12b6.a7b6fd",
    "type": "mqtt out",
    "z": "67a1adb0.e42284",
    "name": "",
    "topic": "home/sunrise2/set",
    "qos": "",
    "retain": "",
    "respTopic": "",
    "contentType": "",
    "userProps": "",
    "correl": "",
    "expiry": "",
    "broker": "059bca2abc83dd01",
    "x": 710,
    "y": 160,
    "wires": []
  },
  {
    "id": "deef52c7.5f52e",
    "type": "inject",
    "z": "67a1adb0.e42284",
    "name": "",
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "",
    "payload": "{\"state\":\"OFF\"}",
    "payloadType": "json",
    "x": 300,
    "y": 240,
    "wires": [
      [
        "163d12b6.a7b6fd"
      ]
    ]
  }
}
```

```
]
},
{
  "id": "5bf020f9.803f4",
  "type": "inject",
  "z": "67a1adb0.e42284",
  "name": "",
  "props": [
    {
      "p": "payload",
      "v": "{\\"state\\":\\"ON\\"}",
      "vt": "json"
    },
    {
      "p": "topic",
      "v": "",
      "vt": "str"
    }
  ],
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "{\\"state\\":\\"ON\\"}",
  "payloadType": "json",
  "x": 290,
  "y": 280,
  "wires": [
    [
      "163d12b6.a7b6fd"
    ]
  ]
},
{
  "id": "3ebdb00c.5f7a3",
  "type": "inject",
  "z": "67a1adb0.e42284",
  "name": "",
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "{\\"effect\\":\\"aqua\\"}",
  "payloadType": "json",
  "x": 300,
  "y": 40,
  "wires": [
    [
      "163d12b6.a7b6fd"
    ]
  ]
}
```

```
    ]
  ]
},
{
  "id": "7a921fd3.17fb7",
  "type": "inject",
  "z": "67a1adb0.e42284",
  "name": "",
  "props": [
    {
      "p": "payload"
    },
    {
      "p": "topic",
      "vt": "str"
    }
  ],
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "{\"effect\": \"sunrise\", \"loop\": \"false\"}",
  "payloadType": "json",
  "x": 280,
  "y": 120,
  "wires": [
    [
      "163d12b6.a7b6fd"
    ]
  ]
},
{
  "id": "3121006f.2d812",
  "type": "inject",
  "z": "67a1adb0.e42284",
  "name": "",
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "{\"effect\": \"sunr0se\"}",
  "payloadType": "json",
  "x": 310,
  "y": 160,
  "wires": [
    [
      "163d12b6.a7b6fd"
    ]
  ]
}
```

```
},
{
  "id": "62633276.25399c",
  "type": "inject",
  "z": "67a1adb0.e42284",
  "name": "",
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "{\\"effect\\":\\"sunrise\\"}",
  "payloadType": "json",
  "x": 310,
  "y": 80,
  "wires": [
    [
      "163d12b6.a7b6fd"
    ]
  ]
},
{
  "id": "ab71e19d.8f1ab",
  "type": "mqtt in",
  "z": "8e566f01.3cb7e",
  "name": "",
  "topic": "stat/sonoff522BFF/POWER",
  "qos": "2",
  "datatype": "auto",
  "broker": "059bca2abc83dd01",
  "nl": false,
  "rap": false,
  "inputs": 0,
  "x": 160,
  "y": 100,
  "wires": [
    [
      "4b855817.514258",
      "72fc0a46.dfb914"
    ]
  ]
},
{
  "id": "4b855817.514258",
  "type": "debug",
  "z": "8e566f01.3cb7e",
  "name": "",
  "active": true,
  "tosidebar": true,
  "console": false,
  "tostatus": false,
```

```
    "complete": "false",
    "x": 390,
    "y": 40,
    "wires": []
  },
  {
    "id": "3ea4ffbd.61c7b",
    "type": "mqtt out",
    "z": "8e566f01.3cb7e",
    "name": "",
    "topic": "cmdnd/sonoff522BFF/POWER",
    "qos": "",
    "retain": "",
    "respTopic": "",
    "contentType": "",
    "userProps": "",
    "correl": "",
    "expiry": "",
    "broker": "059bca2abc83dd01",
    "x": 1520,
    "y": 220,
    "wires": []
  },
  {
    "id": "7d9fda11.feee64",
    "type": "inject",
    "z": "8e566f01.3cb7e",
    "name": "",
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ],
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "topic",
    "payload": "false",
    "payloadType": "bool",
    "x": 860,
    "y": 280,
    "wires": [
      [
        "17737f6e08e44023"
      ]
    ]
  }
]
```

```
},
{
  "id": "af4205d9.42c1d8",
  "type": "inject",
  "z": "8e566f01.3cb7e",
  "name": "",
  "props": [
    {
      "p": "payload"
    },
    {
      "p": "topic",
      "vt": "str"
    }
  ],
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "topic",
  "payload": "true",
  "payloadType": "bool",
  "x": 860,
  "y": 220,
  "wires": [
    [
      "17737f6e08e44023"
    ]
  ]
},
{
  "id": "72fc0a46.dfb914",
  "type": "function",
  "z": "8e566f01.3cb7e",
  "name": "ChangesOnly",
  "func": "var previous = context.get('previous')||'';\n\nif\n(previous!= msg.payload){\n  context.set('previous',msg.payload);\n\nreturn msg;\n}else{\n  return null;\n}",
  "outputs": 1,
  "noerr": 0,
  "x": 400,
  "y": 100,
  "wires": [
    [
      "93856a67c260212f"
    ]
  ]
},
{
  "id": "fa74251f3690f52d",
  "type": "link in",
```

```
    "z": "8e566f01.3cb7e",
    "name": "Nachtlcht",
    "links": [
      "427d398252fc6ea6"
    ],
    "x": 1015,
    "y": 320,
    "wires": [
      [
        "a16ab5789893380a",
        "17737f6e08e44023"
      ]
    ]
  },
  {
    "id": "a16ab5789893380a",
    "type": "debug",
    "z": "8e566f01.3cb7e",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "statusVal": "",
    "statusType": "auto",
    "x": 1290,
    "y": 320,
    "wires": []
  },
  {
    "id": "d634211e59f88f22",
    "type": "ui-switch",
    "z": "8e566f01.3cb7e",
    "name": "Nathalies Licht",
    "label": "Nathalie Licht",
    "group": "a08df7b2703d7adf",
    "order": 4,
    "width": 0,
    "height": 0,
    "passthru": false,
    "decouple": false,
    "topic": "topic",
    "topicType": "msg",
    "style": "",
    "className": "",
    "layout": "row-spread",
    "clickableArea": "switch",
    "onvalue": "true",
    "onvalueType": "bool",
    "onicon": "",
```

```
"oncolor": "",
"offvalue": "false",
"offvalueType": "bool",
"officon": "",
"offcolor": "",
"x": 840,
"y": 100,
"wires": [
  [
    "17737f6e08e44023"
  ]
],
},
{
  "id": "17737f6e08e44023",
  "type": "change",
  "z": "8e566f01.3cb7e",
  "name": "Bool to ONOFF",
  "rules": [
    {
      "t": "change",
      "p": "payload",
      "pt": "msg",
      "from": "true",
      "fromt": "bool",
      "to": "ON",
      "tot": "str"
    },
    {
      "t": "change",
      "p": "payload",
      "pt": "msg",
      "from": "false",
      "fromt": "bool",
      "to": "OFF",
      "tot": "str"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
  "x": 1240,
  "y": 260,
  "wires": [
    [
      "3ea4ffbd.61c7b"
    ]
  ]
},
```

```
{
  "id": "93856a67c260212f",
  "type": "change",
  "z": "8e566f01.3cb7e",
  "name": "ONOFF to Bool",
  "rules": [
    {
      "t": "change",
      "p": "payload",
      "pt": "msg",
      "from": "ON",
      "fromt": "str",
      "to": "true",
      "tot": "bool"
    },
    {
      "t": "change",
      "p": "payload",
      "pt": "msg",
      "from": "OFF",
      "fromt": "str",
      "to": "false",
      "tot": "bool"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
  "x": 620,
  "y": 100,
  "wires": [
    [
      "d634211e59f88f22"
    ]
  ]
},
{
  "id": "fd35e0f9d1f37657",
  "type": "mqtt in",
  "z": "d81b425e4d857f1d",
  "name": "",
  "topic": "stat/tasmota_77CE12/POWER",
  "qos": "2",
  "datatype": "auto-detect",
  "broker": "059bca2abc83dd01",
  "nl": false,
  "rap": false,
  "inputs": 0,
  "x": 170,
```

```
    "y": 120,
    "wires": [
      [
        "ea9b7c21cb80a28e"
      ]
    ]
  },
  {
    "id": "23e2248f994f1c94",
    "type": "mqtt out",
    "z": "d81b425e4d857f1d",
    "name": "",
    "topic": "cmdn/tasmota_77CE12/POWER",
    "qos": "",
    "retain": "",
    "respTopic": "",
    "contentType": "",
    "userProps": "",
    "correl": "",
    "expiry": "",
    "broker": "059bca2abc83dd01",
    "x": 1730,
    "y": 240,
    "wires": []
  },
  {
    "id": "067ae418c00b5ac7",
    "type": "inject",
    "z": "d81b425e4d857f1d",
    "name": "",
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ],
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "topic",
    "payload": "true",
    "payloadType": "bool",
    "x": 1140,
    "y": 220,
    "wires": [
      [
        "45cc3e34cb24ba26"
      ]
    ]
  }
}
```

```
    ]
  ],
},
{
  "id": "1253680161c34dbd",
  "type": "inject",
  "z": "d81b425e4d857f1d",
  "name": "",
  "props": [
    {
      "p": "payload"
    },
    {
      "p": "topic",
      "vt": "str"
    }
  ],
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "topic",
  "payload": "false",
  "payloadType": "bool",
  "x": 1140,
  "y": 280,
  "wires": [
    [
      "45cc3e34cb24ba26"
    ]
  ]
},
{
  "id": "ea9b7c21cb80a28e",
  "type": "function",
  "z": "d81b425e4d857f1d",
  "name": "ChangesOnly",
  "func": "var previous = context.get('previous')||'';\n\nif\n(previous!= msg.payload){\n  context.set('previous',msg.payload);\n\nreturn msg;\n}else{\n  return null;\n}",
  "outputs": 1,
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 460,
  "y": 120,
  "wires": [
    [
      "afe41f2d4c6a8cf8"
    ]
  ]
}
```

```
]
},
{
  "id": "26cc962b9d3bfc79",
  "type": "link in",
  "z": "d81b425e4d857f1d",
  "name": "Nachtlucht",
  "links": [
    "2a9339433f2b2d8f",
    "90a61768daa0b5f6",
    "b812abcfda391d30",
    "c3a7a8cb9d0e9066"
  ],
  "x": 1215,
  "y": 340,
  "wires": [
    [
      "45cc3e34cb24ba26"
    ]
  ]
},
{
  "id": "e8b4d50fcafc810",
  "type": "ui-switch",
  "z": "d81b425e4d857f1d",
  "name": "Vitrine",
  "label": "Vitrine",
  "group": "a08df7b2703d7adf",
  "order": 5,
  "width": 0,
  "height": 0,
  "passthru": false,
  "decouple": false,
  "topic": "topic",
  "topicType": "msg",
  "style": "",
  "className": "",
  "layout": "row-spread",
  "clickableArea": "switch",
  "onvalue": "true",
  "onvalueType": "bool",
  "onicon": "",
  "oncolor": "",
  "offvalue": "false",
  "offvalueType": "bool",
  "officon": "",
  "offcolor": "",
  "x": 930,
  "y": 120,
  "wires": [
    [

```

```

        "45cc3e34cb24ba26"
      ]
    ],
  },
  {
    "id": "45cc3e34cb24ba26",
    "type": "change",
    "z": "d81b425e4d857f1d",
    "name": "Bool to ONOFF",
    "rules": [
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "true",
        "fromt": "bool",
        "to": "ON",
        "tot": "str"
      },
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "false",
        "fromt": "bool",
        "to": "OFF",
        "tot": "str"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 1440,
    "y": 240,
    "wires": [
      [
        "23e2248f994f1c94"
      ]
    ]
  },
  {
    "id": "afe41f2d4c6a8cf8",
    "type": "change",
    "z": "d81b425e4d857f1d",
    "name": "ONOFF to Bool",
    "rules": [
      {
        "t": "change",
        "p": "payload",

```

```
        "pt": "msg",
        "from": "ON",
        "fromt": "str",
        "to": "true",
        "tot": "bool"
    },
    {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "OFF",
        "fromt": "str",
        "to": "false",
        "tot": "bool"
    }
],
"action": "",
"property": "",
"from": "",
"to": "",
"reg": false,
"x": 720,
"y": 120,
"wires": [
    [
        "e8b4d50fcafcd810",
        "39b92997dd7d90f0"
    ]
]
},
{
    "id": "39b92997dd7d90f0",
    "type": "debug",
    "z": "d81b425e4d857f1d",
    "name": "debug 4",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "statusVal": "",
    "statusType": "auto",
    "x": 940,
    "y": 380,
    "wires": []
},
{
    "id": "c7d551328dabd0f5",
    "type": "mqtt in",
    "z": "06e0f70d4768d26a",
    "name": "",
```

```

    "topic": "stat/tasmota_502D3E/POWER",
    "qos": "2",
    "datatype": "auto-detect",
    "broker": "059bca2abc83dd01",
    "nl": false,
    "rap": false,
    "inputs": 0,
    "x": 190,
    "y": 120,
    "wires": [
      [
        "ded4c03b26bcb68c"
      ]
    ]
  },
  {
    "id": "7ed17a2f56647345",
    "type": "mqtt out",
    "z": "06e0f70d4768d26a",
    "name": "",
    "topic": "cmnd/tasmota_502D3E/POWER",
    "qos": "",
    "retain": "",
    "respTopic": "",
    "contentType": "",
    "userProps": "",
    "correl": "",
    "expiry": "",
    "broker": "059bca2abc83dd01",
    "x": 1750,
    "y": 240,
    "wires": []
  },
  {
    "id": "e69d4e3b68941ae6",
    "type": "inject",
    "z": "06e0f70d4768d26a",
    "name": "",
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ],
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,

```

```
    "topic": "topic",
    "payload": "true",
    "payloadType": "bool",
    "x": 1160,
    "y": 220,
    "wires": [
      [
        "dbeb78b2d34e56df"
      ]
    ]
  },
  {
    "id": "580ad27a111e2632",
    "type": "inject",
    "z": "06e0f70d4768d26a",
    "name": "",
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ],
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "topic",
    "payload": "false",
    "payloadType": "bool",
    "x": 1160,
    "y": 280,
    "wires": [
      [
        "dbeb78b2d34e56df"
      ]
    ]
  },
  {
    "id": "ded4c03b26bcb68c",
    "type": "function",
    "z": "06e0f70d4768d26a",
    "name": "ChangesOnly",
    "func": "var previous = context.get('previous')||'';\n\nif\n(previous!= msg.payload){\n  context.set('previous',msg.payload);\n\nreturn msg;\n}else{\n  return null;\n}",
    "outputs": 1,
    "noerr": 0,
    "initialize": "",
  }
}
```

```
    "finalize": "",
    "libs": [],
    "x": 480,
    "y": 120,
    "wires": [
      [
        "0912574b39ac87fc"
      ]
    ]
  },
  {
    "id": "7f182a302d2fe5ed",
    "type": "ui-switch",
    "z": "06e0f70d4768d26a",
    "name": "Ladekontrollleuchte",
    "label": "Ladekontrollleuchte",
    "group": "a08df7b2703d7adf",
    "order": 6,
    "width": 0,
    "height": 0,
    "passthru": false,
    "decouple": false,
    "topic": "topic",
    "topicType": "msg",
    "style": "",
    "className": "",
    "layout": "row-spread",
    "clickableArea": "switch",
    "onvalue": "true",
    "onvalueType": "bool",
    "onicon": "",
    "oncolor": "",
    "offvalue": "false",
    "offvalueType": "bool",
    "officon": "",
    "offcolor": "",
    "x": 990,
    "y": 120,
    "wires": [
      [
        "dbeb78b2d34e56df"
      ]
    ]
  },
  {
    "id": "dbeb78b2d34e56df",
    "type": "change",
    "z": "06e0f70d4768d26a",
    "name": "Bool to ONOFF",
    "rules": [
      {
```

```
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "true",
        "fromt": "bool",
        "to": "ON",
        "tot": "str"
    },
    {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "false",
        "fromt": "bool",
        "to": "OFF",
        "tot": "str"
    }
],
"action": "",
"property": "",
"from": "",
"to": "",
"reg": false,
"x": 1460,
"y": 240,
"wires": [
    [
        "7ed17a2f56647345"
    ]
]
},
{
    "id": "0912574b39ac87fc",
    "type": "change",
    "z": "06e0f70d4768d26a",
    "name": "ONOFF to Bool",
    "rules": [
        {
            "t": "change",
            "p": "payload",
            "pt": "msg",
            "from": "ON",
            "fromt": "str",
            "to": "true",
            "tot": "bool"
        },
        {
            "t": "change",
            "p": "payload",
            "pt": "msg",
            "from": "OFF",
```

```
        "fromt": "str",
        "to": "false",
        "tot": "bool"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 740,
    "y": 120,
    "wires": [
      [
        "7f182a302d2fe5ed",
        "cb62523d5a2e5810"
      ]
    ]
  },
  {
    "id": "cb62523d5a2e5810",
    "type": "debug",
    "z": "06e0f70d4768d26a",
    "name": "debug 6",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "statusVal": "",
    "statusType": "auto",
    "x": 960,
    "y": 380,
    "wires": []
  },
  {
    "id": "03a73c51116f6b71",
    "type": "mqtt in",
    "z": "06e0f70d4768d26a",
    "name": "",
    "topic": "wallbox/e66368254f8e2d2c/data",
    "qos": "2",
    "datatype": "json",
    "broker": "059bca2abc83dd01",
    "nl": false,
    "rap": false,
    "inputs": 0,
    "x": 290,
    "y": 480,
    "wires": [
      [
```

```
        "e0b4f19d4822145c",
        "750690d13173326a",
        "90245f37cb1ea996"
    ]
}
{
  "id": "e0b4f19d4822145c",
  "type": "debug",
  "z": "06e0f70d4768d26a",
  "name": "Wallbox",
  "active": true,
  "tosidebar": false,
  "console": false,
  "tostatus": false,
  "complete": "payload",
  "targetType": "msg",
  "statusVal": "",
  "statusType": "auto",
  "x": 500,
  "y": 580,
  "wires": []
},
{
  "id": "750690d13173326a",
  "type": "ui-chart",
  "z": "06e0f70d4768d26a",
  "group": "a08df7b2703d7adf",
  "name": "Stromaufnahme",
  "label": "Wallbox",
  "order": 10,
  "chartType": "line",
  "category": "topic",
  "categoryType": "msg",
  "xAxisLabel": "",
  "xAxisProperty": "",
  "xAxisPropertyType": "timestamp",
  "xAxisType": "time",
  "xAxisFormat": "",
  "xAxisFormatType": "auto",
  "xmin": "",
  "xmax": "",
  "yAxisLabel": "",
  "yAxisProperty": "payload.signal",
  "yAxisPropertyType": "msg",
  "ymin": "",
  "ymax": "",
  "bins": 10,
  "action": "append",
  "stackSeries": false,
  "pointShape": "circle",
```

```

    "pointRadius": 4,
    "showLegend": true,
    "removeOlder": 1,
    "removeOlderUnit": "3600",
    "removeOlderPoints": "",
    "colors": [
      "#0095ff",
      "#ff0000",
      "#ff7f0e",
      "#2ca02c",
      "#a347e1",
      "#d62728",
      "#ff9896",
      "#9467bd",
      "#c5b0d5"
    ],
    "textColor": [
      "#666666"
    ],
    "textColorDefault": true,
    "gridColor": [
      "#e5e5e5"
    ],
    "gridColorDefault": true,
    "width": 6,
    "height": 8,
    "className": "",
    "interpolation": "linear",
    "x": 740,
    "y": 480,
    "wires": [
      []
    ]
  },
  {
    "id": "90245f37cb1ea996",
    "type": "function",
    "z": "06e0f70d4768d26a",
    "name": "Hysteresis",
    "func": "var previous = context.get('previous')||false;\n\nif
(previous && msg.payload.signal<1000){\n  previous=false\n
context.set('previous',previous);\n  msg.payload=previous\n  return
msg;\n}else if \n(! previous && msg.payload.signal>2000){\n
previous=true\n  context.set('previous',previous);\n
msg.payload=previous\n  return msg;\n}\n\nelse {\n  return null;\n}",
    "outputs": 1,
    "timeout": "",
    "noerr": 0,
    "initialize": "",
    "finalize": "",
    "libs": [],
  }

```

```
    "x": 690,
    "y": 260,
    "wires": [
      [
        "dbeb78b2d34e56df"
      ]
    ]
  },
  {
    "id": "71b11e7cd31cdd39",
    "type": "mqtt in",
    "z": "b9dc955b9fa84b3f",
    "name": "",
    "topic": "ESPURNA-CB3DC3/relay/1",
    "qos": "2",
    "datatype": "auto-detect",
    "broker": "059bca2abc83dd01",
    "nl": false,
    "rap": false,
    "inputs": 0,
    "x": 160,
    "y": 120,
    "wires": [
      [
        "871d578729d17faa"
      ]
    ]
  },
  {
    "id": "64d0e733d7309e4a",
    "type": "mqtt out",
    "z": "b9dc955b9fa84b3f",
    "name": "",
    "topic": "ESPURNA-CB3DC3/relay/1/set",
    "qos": "",
    "retain": "",
    "respTopic": "",
    "contentType": "",
    "userProps": "",
    "correl": "",
    "expiry": "",
    "broker": "059bca2abc83dd01",
    "x": 1370,
    "y": 200,
    "wires": []
  },
  {
    "id": "f78873543d55a1c9",
    "type": "inject",
    "z": "b9dc955b9fa84b3f",
    "name": "",
```

```
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ],
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "topic",
    "payload": "true",
    "payloadType": "bool",
    "x": 880,
    "y": 180,
    "wires": [
      [
        "29884ef27095bb7d"
      ]
    ]
  },
  {
    "id": "c4373aa5e7abbf09",
    "type": "inject",
    "z": "b9dc955b9fa84b3f",
    "name": "",
    "props": [
      {
        "p": "payload"
      },
      {
        "p": "topic",
        "vt": "str"
      }
    ],
    "repeat": "",
    "crontab": "",
    "once": false,
    "onceDelay": 0.1,
    "topic": "topic",
    "payload": "false",
    "payloadType": "bool",
    "x": 880,
    "y": 240,
    "wires": [
      [
        "29884ef27095bb7d"
      ]
    ]
  }
}
```

```
    ]
  },
  {
    "id": "43a7818120e07cb7",
    "type": "function",
    "z": "b9dc955b9fa84b3f",
    "name": "ChangesOnly",
    "func": "var previous = context.get('previous')||'';\n\nif\n(previous!= msg.payload){\n  context.set('previous',msg.payload);\n\nreturn msg;\n}else{\n  return null;\n}",
    "outputs": 1,
    "noerr": 0,
    "x": 580,
    "y": 120,
    "wires": [
      [
        [
          "5857b25ae32aafbb"
        ]
      ]
    ]
  },
  {
    "id": "f2493ce1650268f2",
    "type": "link in",
    "z": "b9dc955b9fa84b3f",
    "name": "Nachtllicht",
    "links": [
      "2a9339433f2b2d8f",
      "90a61768daa0b5f6",
      "b812abcfd391d30",
      "c3a7a8cb9d0e9066"
    ],
    "x": 895,
    "y": 300,
    "wires": [
      [
        [
          "29884ef27095bb7d"
        ]
      ]
    ]
  },
  {
    "id": "5857b25ae32aafbb",
    "type": "ui-switch",
    "z": "b9dc955b9fa84b3f",
    "name": "Arbeitszimmer",
    "label": "Arbeitszimmer",
    "group": "a08df7b2703d7adf",
    "order": 7,
    "width": 0,
    "height": 0,
    "passthru": false,
    "decouple": false,
```

```

    "topic": "topic",
    "topicType": "str",
    "style": "",
    "className": "",
    "layout": "row-spread",
    "clickableArea": "switch",
    "onvalue": "true",
    "onvalueType": "bool",
    "onicon": "",
    "oncolor": "",
    "offvalue": "false",
    "offvalueType": "bool",
    "officon": "",
    "offcolor": "",
    "x": 820,
    "y": 100,
    "wires": [
      [
        "29884ef27095bb7d"
      ]
    ]
  },
  {
    "id": "29884ef27095bb7d",
    "type": "change",
    "z": "b9dc955b9fa84b3f",
    "name": "Bool to ONOFF",
    "rules": [
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "true",
        "fromt": "bool",
        "to": "ON",
        "tot": "str"
      },
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "false",
        "fromt": "bool",
        "to": "OFF",
        "tot": "str"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",

```

```
    "reg": false,
    "x": 1120,
    "y": 200,
    "wires": [
      [
        "64d0e733d7309e4a"
      ]
    ]
  },
  {
    "id": "871d578729d17faa",
    "type": "change",
    "z": "b9dc955b9fa84b3f",
    "name": "Number to Bool",
    "rules": [
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "1",
        "fromt": "num",
        "to": "true",
        "tot": "bool"
      },
      {
        "t": "change",
        "p": "payload",
        "pt": "msg",
        "from": "0",
        "fromt": "num",
        "to": "false",
        "tot": "bool"
      }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 400,
    "y": 120,
    "wires": [
      [
        "43a7818120e07cb7"
      ]
    ]
  },
  {
    "id": "a78a2e025fcd8c09",
    "type": "mqtt in",
    "z": "a835cf98310dcb70",
```

```
    "name": "",
    "topic": "stat/tasmota_33C654/POWER",
    "qos": "2",
    "datatype": "auto",
    "broker": "059bca2abc83dd01",
    "nl": false,
    "rap": false,
    "inputs": 0,
    "x": 140,
    "y": 100,
    "wires": [
      [
        "305070209b180bbd",
        "69d5d46fee845fcd"
      ]
    ]
  },
  {
    "id": "305070209b180bbd",
    "type": "debug",
    "z": "a835cf98310dcb70",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "x": 370,
    "y": 40,
    "wires": []
  },
  {
    "id": "bd4230dc4eea4557",
    "type": "mqtt out",
    "z": "a835cf98310dcb70",
    "name": "",
    "topic": "cmnd/tasmota_33C654/POWER",
    "qos": "",
    "retain": "",
    "respTopic": "",
    "contentType": "",
    "userProps": "",
    "correl": "",
    "expiry": "",
    "broker": "059bca2abc83dd01",
    "x": 850,
    "y": 160,
    "wires": []
  },
  {
    "id": "bd88385b6c9e80a3",
```

```
"type": "inject",
"z": "a835cf98310dcb70",
"name": "",
"props": [
  {
    "p": "payload"
  },
  {
    "p": "topic",
    "vt": "str"
  }
],
"repeat": "",
"crontab": "",
"once": false,
"onceDelay": 0.1,
"topic": "On",
"payload": "ON",
"payloadType": "str",
"x": 570,
"y": 160,
"wires": [
  [
    "bd4230dc4eea4557"
  ]
]
},
{
  "id": "975e796daf41f1de",
  "type": "inject",
  "z": "a835cf98310dcb70",
  "name": "",
  "props": [
    {
      "p": "payload"
    },
    {
      "p": "topic",
      "vt": "str"
    }
  ],
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "Aus",
  "payload": "OFF",
  "payloadType": "str",
  "x": 580,
  "y": 220,
  "wires": [
```

```

        [
            "bd4230dc4eea4557"
        ]
    ],
    {
        "id": "69d5d46fee845fcd",
        "type": "function",
        "z": "a835cf98310dcb70",
        "name": "ChangesOnly",
        "func": "var previous = context.get('previous')||'';\n\nif
(previous!= msg.payload){\n    context.set('previous',msg.payload);\n
return msg;\n}else{\n    return null;\n}",
        "outputs": 1,
        "noerr": 0,
        "initialize": "",
        "finalize": "",
        "libs": [],
        "x": 380,
        "y": 100,
        "wires": [
            [
                "697db4e52ce07ec6"
            ]
        ]
    },
    {
        "id": "697db4e52ce07ec6",
        "type": "ui-switch",
        "z": "a835cf98310dcb70",
        "name": "SatTV- Power",
        "label": "SatIP",
        "group": "a08df7b2703d7adf",
        "order": 8,
        "width": 0,
        "height": 0,
        "passthru": false,
        "decouple": false,
        "topic": "topic",
        "topicType": "msg",
        "style": "",
        "className": "",
        "layout": "row-spread",
        "clickableArea": "switch",
        "onvalue": "true",
        "onvalueType": "bool",
        "onicon": "",
        "oncolor": "",
        "offvalue": "false",
        "offvalueType": "bool",
        "officon": "",
    }

```

```
    "offcolor": "",
    "x": 600,
    "y": 100,
    "wires": [
      [
        "bd4230dc4eea4557"
      ]
    ]
  },
  {
    "id": "f788f61c153d70b3",
    "type": "ui_time_scheduler",
    "z": "128b9e6ffb5a44da",
    "group": "Schalter",
    "name": "",
    "startDay": "1",
    "refresh": 60,
    "devices": [
      "Morgensonne"
    ],
    "singleOff": false,
    "onlySendChange": false,
    "customPayload": false,
    "eventMode": true,
    "eventOptions": [
      {
        "label": "Ein",
        "event": "ON"
      }
    ],
    "sendTopic": false,
    "lat": "53.32738518075729",
    "lon": "",
    "customContextStore": "",
    "outputs": 2,
    "order": 16,
    "width": 0,
    "height": 0,
    "x": 470,
    "y": 300,
    "wires": [
      [
        "be4a5bddf35ba028"
      ],
      [
        "033b7a6461592678",
        "b812abcfd391d30"
      ]
    ]
  },
  {
```

```
    "id": "be4a5bddf35ba028",
    "type": "debug",
    "z": "128b9e6ffb5a44da",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "statusVal": "",
    "statusType": "auto",
    "x": 790,
    "y": 300,
    "wires": []
  },
  {
    "id": "033b7a6461592678",
    "type": "debug",
    "z": "128b9e6ffb5a44da",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "statusVal": "",
    "statusType": "auto",
    "x": 790,
    "y": 360,
    "wires": []
  },
  {
    "id": "b812abcfda391d30",
    "type": "link out",
    "z": "128b9e6ffb5a44da",
    "name": "Morgensonne an",
    "mode": "link",
    "links": [
      "dd715b75ba033f3e",
      "f2493ce1650268f2"
    ],
    "x": 595,
    "y": 420,
    "wires": []
  },
  {
    "id": "95de46d2.506628",
    "type": "websocket out",
    "z": "32c1fd5e.098ec2",
    "name": "zuul",
    "server": "",
```

```
    "client": "4025a95e85247f7b",
    "x": 970,
    "y": 260,
    "wires": []
  },
  {
    "id": "555024da.a2d69c",
    "type": "websocket in",
    "z": "32c1fd5e.098ec2",
    "name": "Zuul",
    "server": "",
    "client": "4025a95e85247f7b",
    "x": 50,
    "y": 240,
    "wires": [
      [
        "3c6d3630.41e21a"
      ]
    ]
  },
  {
    "id": "4786210e.c8c08",
    "type": "debug",
    "z": "32c1fd5e.098ec2",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "x": 990,
    "y": 200,
    "wires": []
  },
  {
    "id": "ed3f53ff.e57f5",
    "type": "comment",
    "z": "32c1fd5e.098ec2",
    "name": "Client",
    "info": "",
    "x": 90,
    "y": 60,
    "wires": []
  },
  {
    "id": "9ed49469.3c9358",
    "type": "json",
    "z": "32c1fd5e.098ec2",
    "name": "",
    "property": "payload",
    "action": "",
```

```
"pretty": false,
"x": 370,
"y": 240,
"wires": [
  [
    "c262156a.4af558",
    "a28d858a.f80338"
  ]
]
},
{
  "id": "e9b01134.ce2ed",
  "type": "change",
  "z": "32c1fd5e.098ec2",
  "name": "Set OTP Parameters",
  "rules": [
    {
      "t": "set",
      "p": "payload.type",
      "pt": "msg",
      "to": "ac_otprequest",
      "tot": "str"
    },
    {
      "t": "set",
      "p": "payload.config.result",
      "pt": "msg",
      "to": "zuul_active",
      "tot": "flow"
    },
    {
      "t": "set",
      "p": "payload.config.msg",
      "pt": "msg",
      "to": "zuul_msg",
      "tot": "flow"
    },
    {
      "t": "set",
      "p": "payload.config.type",
      "pt": "msg",
      "to": "qrcode",
      "tot": "str"
    },
    {
      "t": "set",
      "p": "payload.config.keypadchars",
      "pt": "msg",
      "to": "1234567890ABCD",
      "tot": "str"
    }
  ],
}
```

```
    {
      "t": "set",
      "p": "payload.config.length",
      "pt": "msg",
      "to": "10",
      "tot": "num"
    },
    {
      "t": "set",
      "p": "payload.config.valid_time",
      "pt": "msg",
      "to": "60",
      "tot": "num"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
  "x": 760,
  "y": 260,
  "wires": [
    [
      "4786210e.c8c08",
      "95de46d2.506628"
    ]
  ]
},
{
  "id": "c262156a.4af558",
  "type": "switch",
  "z": "32c1fd5e.098ec2",
  "name": "OTP Request",
  "property": "payload",
  "propertyType": "msg",
  "rules": [
    {
      "t": "jsonata_exp",
      "v": "payload.type = \"otprequest\"",
      "vt": "jsonata"
    },
    {
      "t": "jsonata_exp",
      "v": "payload.type = \"tokenstate\" and payload.config.valid = true",
      "vt": "jsonata"
    },
    {
      "t": "else"
    }
  ]
}
```

```
    ],
    "checkall": "true",
    "repair": false,
    "outputs": 3,
    "x": 520,
    "y": 240,
    "wires": [
      [
        "e9b01134.ce2ed"
      ],
      [
        "665b57f8.5d4768",
        "34cec614d74bf158"
      ],
      []
    ]
  },
  {
    "id": "3c6d3630.41e21a",
    "type": "function",
    "z": "32c1fd5e.098ec2",
    "name": "Kill Session",
    "func": "msg._session = \"\";\nreturn msg;",
    "outputs": 1,
    "noerr": 0,
    "x": 230,
    "y": 240,
    "wires": [
      [
        "9ed49469.3c9358"
      ]
    ]
  },
  {
    "id": "9d6e5f0.a99c5a",
    "type": "inject",
    "z": "32c1fd5e.098ec2",
    "name": "TRUE",
    "repeat": "",
    "crontab": "",
    "once": true,
    "onceDelay": 0.1,
    "topic": "A",
    "payload": "true",
    "payloadType": "bool",
    "x": 110,
    "y": 540,
    "wires": [
      [
        "4808ec97.fa80b4"
      ]
    ]
  }
}
```

```
]
},
{
  "id": "a7f4c80.7e8b738",
  "type": "inject",
  "z": "32c1fd5e.098ec2",
  "name": "FALSE",
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "A",
  "payload": "false",
  "payloadType": "bool",
  "x": 110,
  "y": 600,
  "wires": [
    [
      "4808ec97.fa80b4"
    ]
  ]
},
{
  "id": "4808ec97.fa80b4",
  "type": "rbe",
  "z": "32c1fd5e.098ec2",
  "name": "Detect Change",
  "func": "rbe",
  "gap": "",
  "start": "",
  "inout": "out",
  "property": "payload",
  "x": 300,
  "y": 560,
  "wires": [
    [
      "925f2da0.bef99",
      "9952b919.359a08"
    ]
  ]
},
{
  "id": "925f2da0.bef99",
  "type": "change",
  "z": "32c1fd5e.098ec2",
  "name": "zuul_active",
  "rules": [
    {
      "t": "set",
      "p": "zuul_active",
      "pt": "flow",
    }
  ]
}
```

```

        "to": "payload",
        "tot": "msg"
    }
],
"action": "",
"property": "",
"from": "",
"to": "",
"reg": false,
"x": 730,
"y": 560,
"wires": [
    []
]
},
{
    "id": "f4ae387f.d10208",
    "type": "change",
    "z": "32c1fd5e.098ec2",
    "name": "zuul_msg_0k",
    "rules": [
        {
            "t": "set",
            "p": "zuul_msg",
            "pt": "flow",
            "to": "Hinein spaziert! Dein QRCode ist {0} Sekunden
gültig",
            "tot": "str"
        }
    ],
    "action": "",
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 740,
    "y": 600,
    "wires": [
        []
    ]
},
{
    "id": "9952b919.359a08",
    "type": "switch",
    "z": "32c1fd5e.098ec2",
    "name": "Set OTP Message",
    "property": "payload",
    "propertyType": "msg",
    "rules": [
        {
            "t": "true"

```

```
    },
    {
      "t": "false"
    }
  ],
  "checkall": "true",
  "repair": false,
  "outputs": 2,
  "x": 510,
  "y": 620,
  "wires": [
    [
      "f4ae387f.d10208"
    ],
    [
      "e274611f.2f38e"
    ]
  ]
},
{
  "id": "e274611f.2f38e",
  "type": "change",
  "z": "32c1fd5e.098ec2",
  "name": "zuul_msg_Denied",
  "rules": [
    {
      "t": "set",
      "p": "zuul_msg",
      "pt": "flow",
      "to": "Passt gerade nicht..",
      "tot": "str"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
  "x": 750,
  "y": 640,
  "wires": [
    []
  ]
},
{
  "id": "58cf6248.7a406c",
  "type": "websocket out",
  "z": "32c1fd5e.098ec2",
  "name": "zuul",
  "server": "",
  "client": "4025a95e85247f7b",
```

```

    "x": 970,
    "y": 140,
    "wires": []
  },
  {
    "id": "595c27c8.759778",
    "type": "template",
    "z": "32c1fd5e.098ec2",
    "name": "Send Token",
    "field": "payload",
    "fieldType": "msg",
    "format": "handlebars",
    "syntax": "mustache",
    "template": "{ \"type\": \"ac_tokenquery\", \"config\":{ \"token\": \\\"{{payload}}\\\", \"doorid\": \"1\" } }",
    "output": "json",
    "x": 730,
    "y": 140,
    "wires": [
      [
        "58cf6248.7a406c",
        "4786210e.c8c08"
      ]
    ]
  },
  {
    "id": "5769967d.e270b8",
    "type": "mqtt out",
    "z": "32c1fd5e.098ec2",
    "name": "",
    "topic": "qrdoor/e661308e3728732/open",
    "qos": "",
    "retain": "",
    "respTopic": "",
    "contentType": "",
    "userProps": "",
    "correl": "",
    "expiry": "",
    "broker": "059bca2abc83dd01",
    "x": 1050,
    "y": 340,
    "wires": []
  },
  {
    "id": "a28d858a.f80338",
    "type": "debug",
    "z": "32c1fd5e.098ec2",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,

```

```
"tostatus": false,
"complete": "false",
"x": 510,
"y": 340,
"wires": []
},
{
  "id": "3a7fb79f.fd3da8",
  "type": "mqtt in",
  "z": "32c1fd5e.098ec2",
  "name": "",
  "topic": "qrdoor/e661308e3728732/code",
  "qos": "2",
  "datatype": "utf8",
  "broker": "059bca2abc83dd01",
  "nl": false,
  "rap": false,
  "inputs": 0,
  "x": 210,
  "y": 140,
  "wires": [
    [
      "595c27c8.759778",
      "4786210e.c8c08"
    ]
  ]
},
{
  "id": "665b57f8.5d4768",
  "type": "change",
  "z": "32c1fd5e.098ec2",
  "name": "Filter Door-ID",
  "rules": [
    {
      "t": "set",
      "p": "payload",
      "pt": "msg",
      "to": "payload.config.msg.doorid",
      "tot": "msg"
    }
  ],
  "action": "",
  "property": "",
  "from": "",
  "to": "",
  "reg": false,
  "x": 740,
  "y": 480,
  "wires": [
    [
      "6e298f59.4ff2f",
```

```
        "fa57583d.4a4738"
      ]
    ]
  },
  {
    "id": "6e298f59.4ff2f",
    "type": "mqtt out",
    "z": "32c1fd5e.098ec2",
    "name": "Modem",
    "topic": "serial/dial",
    "qos": "",
    "retain": "",
    "respTopic": "",
    "contentType": "",
    "userProps": "",
    "correl": "",
    "expiry": "",
    "broker": "059bca2abc83dd01",
    "x": 980,
    "y": 480,
    "wires": []
  },
  {
    "id": "fa57583d.4a4738",
    "type": "debug",
    "z": "32c1fd5e.098ec2",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "x": 940,
    "y": 560,
    "wires": []
  },
  {
    "id": "34cec614d74bf158",
    "type": "change",
    "z": "32c1fd5e.098ec2",
    "name": "Set ON time",
    "rules": [
      {
        "t": "set",
        "p": "payload",
        "pt": "msg",
        "to": "5",
        "tot": "num"
      }
    ]
  },
  "action": "",
```

```
    "property": "",
    "from": "",
    "to": "",
    "reg": false,
    "x": 750,
    "y": 340,
    "wires": [
      [
        "5769967d.e270b8"
      ]
    ]
  },
  {
    "id": "c29d994684d5fb7a",
    "type": "global-config",
    "env": [],
    "modules": {
      "node-red-contrib-alexa-smart-home": "0.4.68",
      "@flowfuse/node-red-dashboard": "1.26.0",
      "node-red-contrib-schedex": "1.10.7",
      "node-red-node-ping": "0.3.3",
      "node-red-contrib-ui-time-scheduler": "1.17.2"
    }
  }
]
```

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Last update: **2025/10/26 05:48**

