
# MQTT API DQ_HUB

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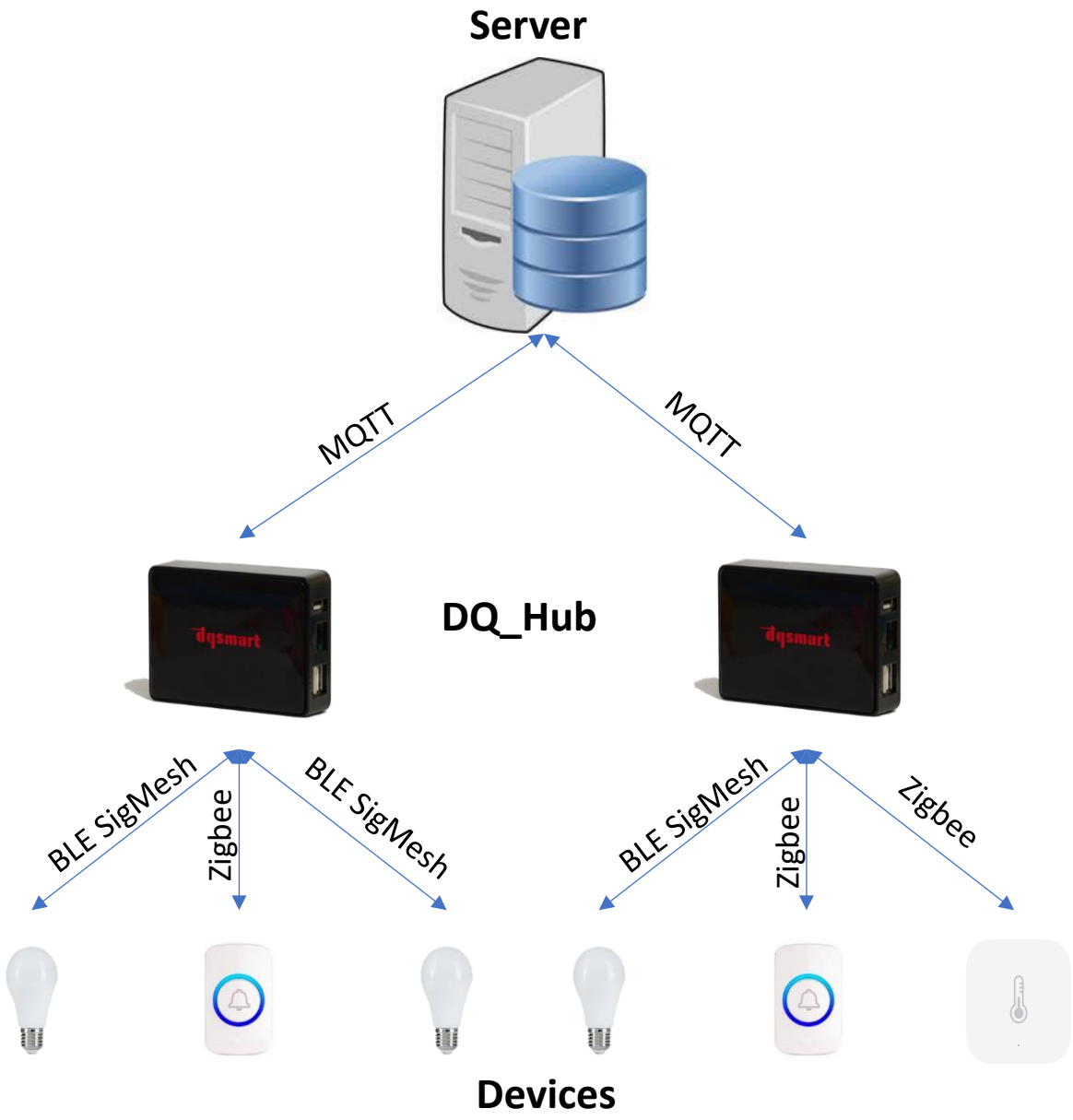
# A. INTRODUCE

DQ_hub connect BLE SIGMESH device and ZIGBEE device to Server via Internet, using MQTT Protocol.

Hub feature:

- Control and monitoring BLE SigMesh device
  - On/Off a light or group of lights
  - Lightness a light or group of lights
  - Change color a light or group of lights
  - Call scene
  - Save the light of state
  - The light broken detected
- Control and monitoring Zigbee device
  - On/Off a light
  - Lightness a light
  - Read status button
  - Sensor (temperature, humidity, …)
- Schedule a timer
- Auto run: control BLE SigMesh light using zigbee button or zigbee sensor
- Number of control devices is 120 (element + group)



# B. API MQTT HUB

After successfully connecting to the server, the hub sends information to the server every 1 minute

***Example Hub response message:***

Topic: v1/devices/me/telemetry

Payload:

```
{
  "infor": {
    "ip": "172.16.26.112",
    "mac": "02:81:71:87:6d:f4",
    "id": "abc123",
    "version": "1.0.3",
    "name": "hub test 1"
  }
}
```

## I. API MQTT HUB WITH BLE SigMesh

**To send control commands to Hub, server public to topic**:

`v1/devices/me/rpc/request/$request_id`

where $request_id is an integer request identifier

**To get feedback from Hub, server Subscribe to topic:**

`v1/devices/me/rpc/response/$request_id`

### 1. Get list devices from hub

This command to get a list of devices managed by the hub

Max devices is 120 (element + group)

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "get_list_device",
  "params": {
    "type": "ble_sigmesh"
  }
}
```

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "list_device_status",
  "params": {
```

```
    "type": "ble_sigmesh",
    "nodes": [
      {
        "unicastAddress": "0004",
        "name": "TUBE V1.4",
        "type": "light"
      },
      {
        "unicastAddress": "0005",
        "name": "RFID reader",
        "type": "rfid_reader"
      },
      {
        "unicastAddress": "0006",
        "name": "ENGERY TL",
        "type": "energy_sensor"
      },
      {
        "unicastAddress": "0007",
        "name": "DQ SUSEN01SM 2021",
        "type": "vacancy_sensor"
      },
      {
        "unicastAddress": "000C",
        "name": "Motion TL",
        "type": "motion_sensor"
      }
    ]
  }
}
```


- Name: name device
- Type: loại thiết bị (light, sensor,…)
- unicastAddress: device unicast address

## 2. Get list Group from hub

***Example message send to Hub:***

Topic: v1/devices/me/rpc/request/$request_id
Payload:

```
{
  "method": "get_list_groups",
  "params": {
    "type": "ble_sigmesh"
  }
}
```

***Example Hub response message:***

Topic: v1/devices/me/rpc/response/$request_id
Payload:

```
{
  "method": "list_groups_status",
  "params":{
    "type": "ble_sigmesh",
    "groups": [
      {
        "address": "C000",
        "name": "New Group",
        "parentAddress": "0000"
      }
    ]
  }
}
```

## 3. Get list Scene

***Example message send to Hub:***

Topic: v1/devices/me/rpc/request/$request_id
Payload:

```
{
  "method": "get_list_scenes",
  "params": {
    "type": "ble_sigmesh"
  }
}
```

***Example Hub response message:***

Topic: v1/devices/me/rpc/response/$request_id
Payload:

```
{
```

```
  "method": "list_scenes_status",
  "params": {
    "type": "ble_sigmesh",
    "scenes": [
      {
        "addresses": ["0005"],
        "name": "Scene 1",
        "number": "0001"
      },
      {
        "addresses": [],
        "name": "Scene 2",
        "number": "0002"
      },
      {
        "addresses": [],
        "name": "Scene 3",
        "number": "0003"
      }
    ]
  }
}
```


## 4. Set On/Off device or group

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:


```
{
  "method": "set_onOff",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "0004",
    "value": 0
  }
}
```


+ unicast: unicast address of the device or group to be controlled
+ value: On = 1 or Off = 0

***Example Hub response message:***
Response received command from server
Topic: `v1/devices/me/rpc/response/$request_id`
Payload:

```
{
  "method": "set_onOff_status",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "0004",
    "value": 0,
    "status": "00"
  }
}
```

## 5. Get On/Off device or group

***Example message send to Hub:***
Topic: `v1/devices/me/rpc/request/$request_id`
Payload:

```
{
  "method": "get_onOff",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "0004"
  }
}
```

***Example Hub response message***:
Response received command from server
Topic: `v1/devices/me/rpc/response/$request_id`
Payload:

```
{
  "method": "get_onOff_status",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "0004",
    "value": 0,
    "status": "00"
  }
}
```

## 6. Set Lightness device or group

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "set_lightness",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "C000",
    "value": 50
  }
}
```

+ unicast: unicast address of the device or group to be controlled
+ value: lightness 0->100%

***Example Hub response message***:

Response received command from server

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "set_lightness_status",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "0004",
    "value": 50,
    "status": "00"
  }
}
```

## 7. Get Lightness device or group

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "get_lightness",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "0004"
  }
```

```
}
```

***Example Hub response message:***

Response received command from server

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "get_lightness_status",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "0004",
    "status": "00"
  }
}
```

## 8. Set HSL

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "set_HSL",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "0005",
    "Lightness": 100,
    "Hue": 360,
    "Saturation": 100
  }
}
```

- Unicast: unicast address of the device or group to be controlled
- Lightness: value 0->100
- Hue: value 0->360
- Saturation: value 0->100

***Example Hub response message:***

Response received command from server

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "set_HSL_status",
  "params": {
```

```
    "type": "ble_sigmesh",
    "unicast": "0005",
    "Lightness": 100,
    "Hue": 360,
    "Saturation": 100,
    "status": "00"
  }
}
```

## 9. Call Scene

***Example message send to Hub:***

Response received command from server

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "scene_recall",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "0005",
    "SceneNumber": 1
  }
}
```

- Unicast: unicast address of the device or group to be controlled
- SceneNumber: scene number to control

***Example Hub response message:***

Response received command from server

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "scene_recall_status",
  "params": {
    "type": "ble_sigmesh",
    "unicast": "0005",
    "SceneNumber": 1,
    "status": "00"
  }
}
```

## 10. Set vendor model

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
    "method":"set_vendor",
    "params":{
      "type": "ble_sigmesh",
      "unicast":"unicast node",
      "opcode":"lable-opcode | opcode",
      "message":"message( int | bool | str | dict)"
    }
  }
```

***Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "vendor_status",
  "params": {
    "address": "unicast node",
    "name": "sensor name",
    "opcode": "lable-opcode",
    "message": "message( int | bool | str)"
  }
}
```

## 11. Get sensor

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method":"get_sensor",
  "params":{
    "type": "ble_sigmesh",
    "unicast":"unicast node",
    "properties":"properties"
  }
```

```
}
```

***Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method":"sensor_status",
  "params":{
    "address":"0006",
    "<properties>": value
  }
}
```

## 12. Get status devices

Read about the status of all lights (onOff, Lightness, HSL)

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "get_status_devices",
  "params": {
    "type": "ble_sigmesh",
    "address": ["0006","0080"]
  }
}
```

- Address: list of device addresses to get state. If you want to get all devices, then “address”:[]
- The above example gets the status of 2 address lights "0006" and "0080"

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "status_devices",
  "params": {
    "type": "ble_sigmesh",
    "data_bleSigmesh": {
      "0006": {
        "onOffStatus": 1,
        "time": 1681526584.1812994,
        "status": true,
```

```
        "lightnessStatus": 80,
        "HSL_status": {
          "Lightness": 160,
          "Hue": 351,
          "Saturation": 100
        }
      },
      "0070": {
        "onOffStatus": 1,
        "time": 1681526561.7739537,
        "status": true,
        "lightnessStatus": 50,
        "HSL_status": {
          "Lightness": 100,
          "Hue": 351,
          "Saturation": 100
        }
      }
    }
  }
}
```


- Time: device's last state receiving time
- Status: status lights are connected to the network. If >5 minutes without receiving a signal from the device, the status is False (the light is disconnected) otherwise it is True.
- onOffStatus: light status On/Off
- lightnessStatus: lightness
- HSL_status: value HSL

## 13. Device status returned

To listen to the device status returned to the server, you need to subscribe to Topic:
v1/devices/me/telemetry
Payload:

```
[
  "data_bleSigmesh_<unicast>":[
     {
         "method":"<method>",
         "params":{<param>}
     }
```

```
    ]
]
```

<unicast>: device unicast address
<method>:

- **onOffStatus**:
  <param>: {
  “address”: ”<unicast address>”,
  ”value”: <1(on) or 0(off)>
  }

**Example On/Off status**

```
{
    "method": "onOffStatus",
    "params": {
        "address": "0004",
        "value": 1
     }
}
```

- **lightnessStatus**:
  <param>: {
  “address”: ”<unicast address>”,
  ”value”: <int (0->100%)>
  }

**Example Lightness status**

```
{
      "method": "lightnessStatus",
      "params": {
        "address": "0004",
        "value": 100
      }
}
```

- **HSL_status**:
  <param>: {
  “address”: “<unicast address>”,
  ”value”:
  {
  “Lightness”: <int(0->100%)>,

”Hue”: <int(0-360)>,
”Saturation”: <int(0->100)>
}
}

**Example HSL status**

```
{
      "method": "HSL_status",
      "params": {
        "address": "0005",
        "Lightness": 100,
        "Hue": 120,
        "Saturation": 100
      }
}
```

- **scene_status**
  <param>: {
  “address”:”<unicast address>”,
  ” currentScene”: <int>
  }

**Example Scene status**

```
{
      "method": "scene_status",
      "params": {
        "currentScene": 1,
        "address": "0005"
      }
}
```

- **vendor_status**
  <param>: {
  "address": "<unicast node>",
  "name": "<sensor name>",
  "opcode": "<lable-opcode>",
  "message": "message( int | bool | str | dict)"
  }

**Example vendor status**

```
{
```

```
    "method":"vendor_status",
    "params":{
      "address":"0007",
      "name":"vacancy_sensor",
      "opcode":"slots_status",
      "message":true
    }
}
```

- **sensor_status**
  <param>: {
  "address":"<unicast node>",
  "<properties>": <value>
  }

**Example sensor status**

```
{
    "method":"sensor_status",
    "params":{
      "address":"0006",
      "voltage":220,
      "current":0.5,
      "energy":0.5
    }
}
```

- **disconnectedEvent**
  <param>: {}

**Example devices Disconnect**

```
{
      "method": "disconnectedEvent",
      "params": {}
}
```

# II. Zigbee

## 1. Set On off

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "set_onOff",
  "params": {
    "type": "zigbee",
    "address": 12308,
    "DstEndPoint": 2,
    "SrcEndPoint": 1,
    "value": 0
  }
}
```

- Address: device address
- SrcEndPoint: endpoint hub, default = 1
- DstEndPoint: device's joystick endpoint
- Value: joystick status 1/0 (on/off)

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "set_onOff_status",
  "params": {
    "type": "zigbee",
    "address": 12308,
    "DstEndPoint": 2,
    "SrcEndPoint": 1,
    "value": 0
  }
}
```

## 2. Set Lightness

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "set_lightness",
  "params": {
    "type": "zigbee",
    "address": 12308,
```

```
    "DstEndPoint": 2,
    "SrcEndPoint": 1,
    "value": 50
  }
}
```

- Address: device address
- SrcEndPoint: endpoint hub, default = 1
- DstEndPoint: device's joystick endpoint
- Value: Lightness value 0->100%

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "set_lightness_status",
  "params": {
    "type": "zigbee",
    "address": 12308,
    "DstEndPoint": 2,
    "SrcEndPoint": 1,
    "value": 50
  }
}
```

## 3. Get list devices

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "get_list_device",
  "params": {
    "type": "zigbee"
  }
}
```

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "list_device_status",
```

```
  "params": {
    "62986": {
      "name": "CB1 LAU 4 TM",
      "addr": 62986,
      "model": "dqhome.re1"
    },
    "62989": {
      "name": "CB2 LAU 4 TM",
      "addr": 62989,
      "model": "dqhome.re1"
    }
  }
}
```

## 4. Status device telemetry

Update device status automatically from hub to server

```
[
  "data_zigbee_<unicast>":[
     {
        "method":"",
        "params":{}
     }
  ]
]
```

***Example:***

```
[
  "data_zigbee_15439":[
    {
      "method": "lumi.weather",
      "params": {
        "addr": 15439,
        "ep": 1,
        "state": {
            "name": "Relative Humidity",
```

```
            "val": "79", "unit": "%"
          }
       }
    }]
]
```

- Method: device model
- Params:
  - + Addr: device address
  - + Ep: device end point
  - + States:
    - Name:
      - Relative Humidity
      - Temperature
      - Status (button)
      - lightness: 0->100%
      - Battery percent: 0->100%
      - Battery voltage
    - Val: value
    - Unit

# C. SCENE AND SCHEDULE HUB

Setup shared scenarios for BLE and Zigbee or set a timer

## I. Scene Hub

### 1. Creat scene Hub

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "creat_scene_hub",
  "params": [
    {
      "comparison": "less"|"less_equal"|"greater"|"greater
_equal"|"equal",
      "enable":true,
      "id": "",
      "input": {
        "method": "status",
        "params": {
```

```
          "addr": 9959,
          "state": {"name": "Status", "val": "ON"}
        }
      },
      "output": [{
        "method": "set_onOff",
        "params": {
          "type": "ble_sigmesh",
          "unicast": "0004",
          "value": 1
        }
      }]
    }
  ]
}
```

- enable: true(ON) or false(OFF)
- id: id scene
- input: this is the return value of Zigbee
- output: this is the return value of BLE or Zigbee
- Comparison:
  - Less: less than (<)
  - less_equal: less than or equal (<=)
  - greater: greater than (>)
  - greater_equal: greater than or equal (>=)
  - equal (==)

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "creat_scene_hub_status",
  "params": [
    {
      "comparison": "less"|"less_equal"|"greater"|"greater
_equal"|"equal",
      "enable":true,
      "id": "",
      "input": {
```

```
        "method": "status",
        "params": {
          "addr": 9959,
          "state": {"name": "Status", "val": "ON"}
        }
      },
      "output": [{
        "method": "set_onOff",
        "params": {
          "type": "ble_sigmesh",
          "unicast": "0004",
          "value": 1
        }
      }]
    }
  ]
}
```

## 2. Update scene Hub

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "update_scene_hub",
  "params": [
    {
      "comparison": "less"|"less_equal"|"greater"|"greater
_equal"|"equal",
      "enable": true,
      "id": "",
      "input": {
        "method": "status",
        "params": {
          "addr": 9959,
          "state": {"name": "Status", "val": "ON"}
        }
      },
```

```
      "output": [{
        "method": "set_onOff",
        "params": {
          "type": "ble_sigmesh",
          "unicast": "0004",
          "value": 1
        }
      }]
    }
  ]
}
```

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "update_scene_hub_status",
  "params": [
    {
      "comparison": "less"|"less_equal"|"greater"|"greater
_equal"|"equal",
      "enable": true,
      "id": "",
      "input": {
        "method": "status",
        "params": {
          "addr": 9959,
          "state": {"name": "Status", "val": "ON"}
        }
      },
      "output": [{
        "method": "set_onOff",
        "params": {
          "type": "ble_sigmesh",
          "unicast": "0004",
          "value": 1
        }
```

```
      }]
    }
  ]
}
```

### 3. Get scene Hub

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "get_scene_hub",
  "params": ""
}
```

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "scene_hub",
  "params": [
    {
      "comparison": "less"|"less_equal"|"greater"|"greater
_equal"|"equal",
      "id": "1",
      "enable": true,
      "input": {
        "method": "lumi.remote.b1acn01",
        "params": {
          "addr": 24224,
          "ep": 1,
          "state": {"name": "Status", "val": 1}
        }
      },
      "output": [{
        "method": "set_onOff",
        "params": {
          "type": "ble_sigmesh",
          "unicast": "0004",
          "value": 1
```

```
        }
      }]
    }
  ]
}
```

### 4. Delete scene Hub

Delete 1 or more scenes

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "delete_scene_hub",
  "params": ["id1", "id2"]
}
```

- ["id1", "id2"]: “id1” , “id2” are the ids of the scene to be deleted. If you want to delete all here, leave the array empty (“param”:[]).

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "delete_scene_hub_status",
  "params": ["id1", "id2"]
}
```

## II. Schedule

### 1. Creat schedule

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "creat_schedule_hub",
  "params": [
    {
      "enable": true,
      "id": "",
      "input": {
        "times": "00:00",
        "weekdays": [0, 1, 2, 3, 4, 5, 6]
```

```
      },
      "output": [{
        "method": "set_onOff",
        "params": {
          "type": "ble_sigmesh",
          "unicast": "C000",
          "value": 0
        }
      }]
    }
  ]
}
```

- enable: true(ON) or false(OFF)
- id: schedule id
- input: times
- times: time to set (in 24h format)
- weekdays: Day of the week is 0->6 Monday -> Sunday respectively
- output: joystick value if input is valid

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "creat_schedule_hub_status",
  "params": [
    {
      "enable":true,
      "id": "",
      "input": {
        "times": "00:00",
        "weekdays": [0, 1, 2, 3, 4, 5, 6]
      },
      "output": [{
        "method": "set_onOff",
        "params": {
          "type": "ble_sigmesh",
          "unicast": "C000",
          "value": 0
```

```
        }
      }]
    }
  ]
}
```

## 2. Update schedule

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "update_schedule_hub",
  "params": [
    {
      "enable":true,
      "id": "",
      "input": {
        "times": "00:00",
        "weekdays": [0, 1, 2, 3, 4, 5, 6]
      },
      "output": [{
        "method": "set_onOff",
        "params": {
          "type": "ble_sigmesh",
          "unicast": "C000",
          "value": 0
        }
      }]
    }
  ]
}
```

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "update_schedule_hub_status",
  "params": [
    {
```

```
      "enable":true,
      "id": "",
      "input": {
        "times": "00:00",
        "weekdays": [0, 1, 2, 3, 4, 5, 6]
      },
      "output": [{
        "method": "set_onOff",
        "params": {
          "type": "ble_sigmesh",
          "unicast": "C000",
          "value": 0
        }
      }]
    }
  ]
}
```


### 3. Get schedule

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:


```
{
  "method": "get_schedule_hub",
  "params": ""
}
```


***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:


```
{
  "method": "schedule_hub",
  "params": [
    {
      "enable": true,
      "id": "off",
      "input": { "times": "08:45", "weekdays": [0, 1, 2, 3, 4,
5, 6] },
      "output": [{
```

```
        "method": "set_onOff",
        "params": { "type": "ble_sigmesh", "unicast": "C000", "
value": 0 }
      }]
    },
    {
      "enable": true,
      "id": "on",
      "input": { "times": "08:43", "weekdays": [0, 1, 2, 3, 4,
5, 6] },
      "output": [{
        "method": "set_onOff",
        "params": { "type": "ble_sigmesh", "unicast": "C000", "
value": 1 }
      }]
    }
  ]
}
```

## 4. Delete schedule

***Example message send to Hub:***

Topic: `v1/devices/me/rpc/request/$request_id`

Payload:

```
{
  "method": "delete_schedule_hub",
  "params": ["id1", "id2"]
}
```

- ["id1", "id2"]: “id1” , “id2” are the ids of the scene to be deleted. If you want to delete all here, leave the array empty (“param”:[]).

***Example Hub response message:***

Topic: `v1/devices/me/rpc/response/$request_id`

Payload:

```
{
  "method": "delete_schedule_hub_status",
  "params": ["id1", "id2"]
}
```