# SLZB-OS API endpoints

## General information

The SLZB-OS operating system has several API channels: HTTP, SSE and MQTT.

> When using any of these channels, it is **not recommended to send more than one request per second.**
> A large number of requests per second **can slow down** the coordinator and **negatively affect stability**.

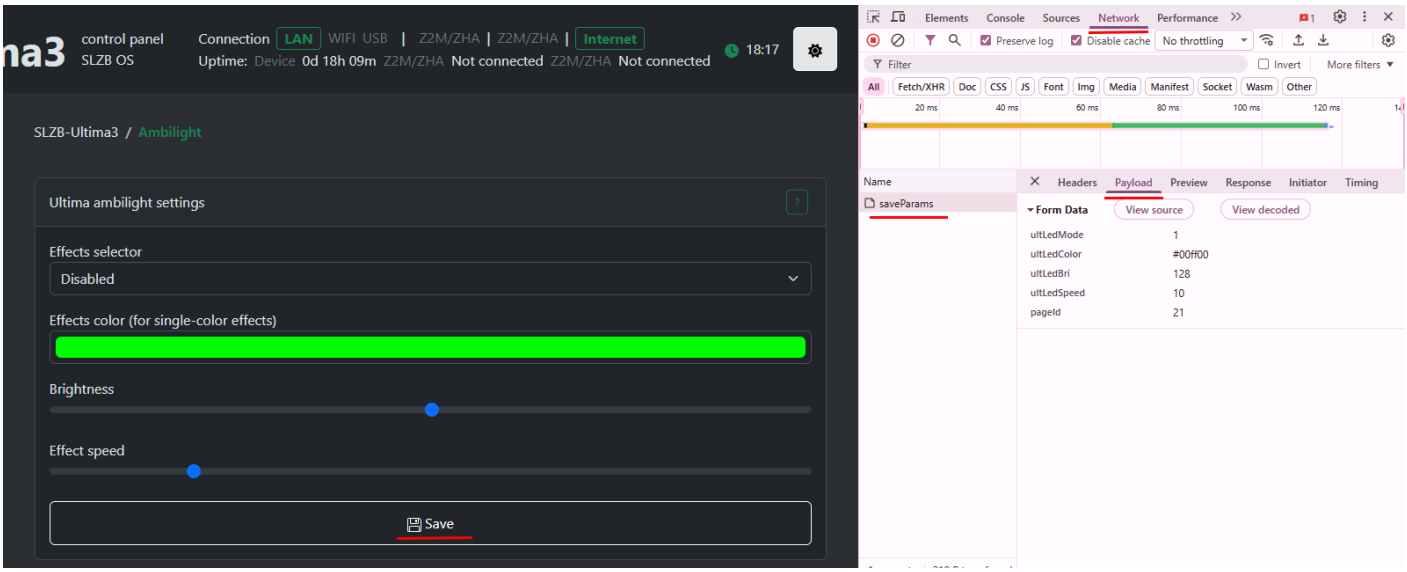
## HTTP API

- Used by the device's web interface.
- Processed by the built-in web server.
- Single-threaded, all requests are processed in turn
- **NO HTTPS SUPPORT! (And it is not planned)**

## Web-interface API endpoints

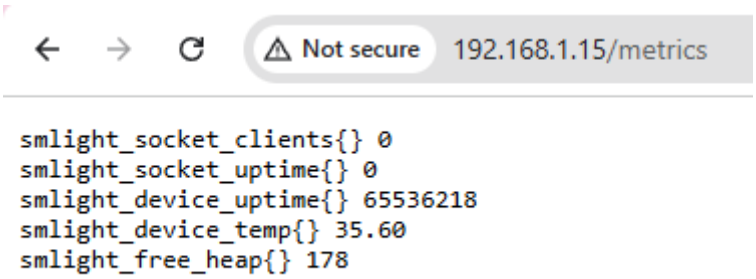
> Not documented and may change without notice. The primary purpose is for internal use by the web interface system!

You can find all the queries in the developer tools in your browser:



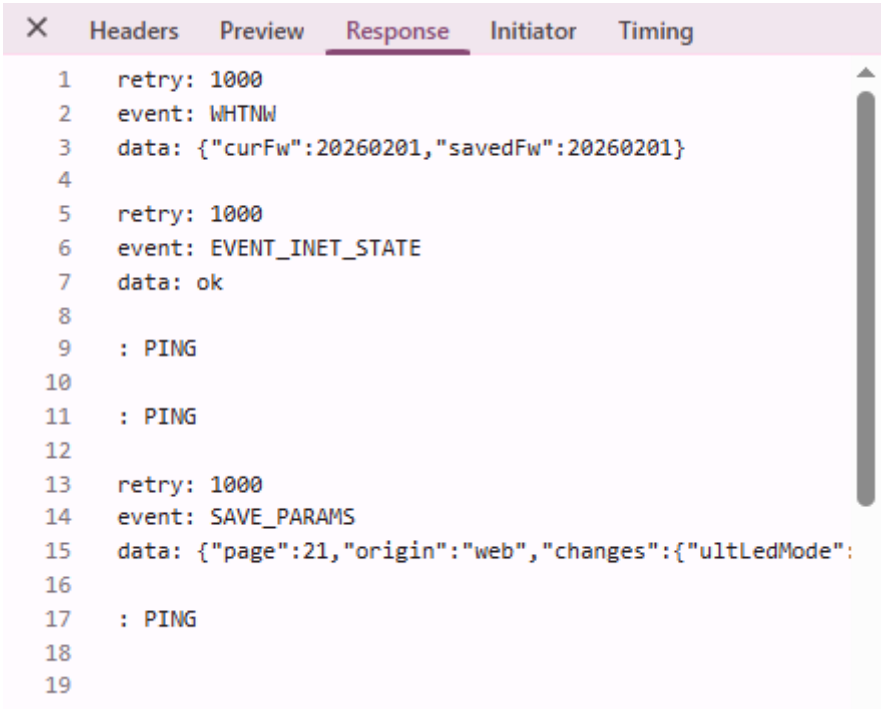

# Prometheus metrics

Endpoint: `/metrics`




# SSE

https://en.wikipedia.org/wiki/Server-sent_events




Endpoint: `/events`

# Home Assistant endpoints

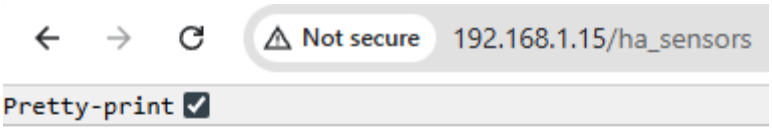
General device information: `/ha_info`

Not secure 192.168.1.15/ha_info

Pretty-print


```
{
  "Info": {
    "wifi_mode": 0,
    "ram_total": 311,
    "fs_total": 3456,
    "zb_ram_size": 128,
    "zb_flash_size": 1024,
    "coord_mode": 0,
    "device_ip": "192.168.1.15",
    "fw_channel": "release",
    "hostname": "SLZB-Ultima3",
    "MAC": "58:E6:C5:45:70:AC",
    "model": "SLZB-Ultima3",
    "sw_version": "v3.2.3",
    "zb_hw": "EFR32MG24",
    "zb_version": 20250212,
    "zb_type": 0,
    "zb_channel": 0,
    "radios": [
      {
        "chip_index": 0,
        "zb_hw": "EFR32MG24",
        "zb_version": 20250212,
        "zb_type": 0,
        "zb_channel": 0,
        "zb_ram_size": 128,
        "zb_flash_size": 1024,
        "radioModes": [true, true, true, false, false, false, false, false]
      },
      {
        "chip_index": 1,
        "zb_hw": "CC2674P10",
        "zb_version": 20240716,
        "zb_type": 0,
        "zb_channel": 0,
        "zb_ram_size": 296,
        "zb_flash_size": 1024,
        "radioModes": [true, true, true, false, true, false, false, false]
      },
      {
        "chip_index": 2,
        "zb_hw": "EFR32ZG23",
        "zb_version": 20260108,
        "zb_type": 5,
        "zb_channel": 1,
        "zb_ram_size": 64,
        "zb_flash_size": 512,
        "radioModes": [0, 0, 0, 0, 0, 1, 1, 1]
      }
    ],
    "addons": {
      "lte": true,
      "poe": false,
      "zwave": true,
      "mic": true
    }
  }
}
```

Real time sensors: `/ha_sensors`




Pretty-print ☑


```
{
  "Sensors": {
    "esp32_temp": "35.60",
    "zb_temp": "32.12",
    "zb_temp2": "32.80",
    "uptime": 65870,
    "socket_uptime": 0,
    "psram_usage": 17,
    "lte_state": 0,
    "lte_detect": false,
    "ram_usage": 133,
    "fs_used": 200,
    "ethernet": true,
    "wifi_connected": false,
    "wifi_status": 254,
    "vpn_status": false,
    "disable_leds": false,
    "night_mode": false,
    "auto_zigbee": false,
    "vpn_enabled": false
  }
}
```


# MQTT API

> This API is available from firmware **v3.2.4**

> zHub MQTT API can be found here: https://smlight.tech/support/manuals/books/slzb-os/page/mqtt-api

> **ATTENTION! Some topics are reserved by the system!**
> `/api2/#` **topic is reserved for MQTT API usage.**
> `/cmd/#`, `/write/#`, `/read/#` **and** `/data/#` **topics are used by HA discovery for Zigbee Hub.**
> **Please avoid using these topics.**

# SLZB-Ultima specific

>

> Ultima has a special API for interacting with IR, Ambilight, Buzzer, etc. Other models don't have this!

# Buzzer Control

Buzzer control topic: `<Base topic>/api2/write/buzzer`

Payload: RTTTL sound pattern

Example: `Arkanoid:d=4,o=5,b=140:8g6,16p,16g.6,2a#6,32p,8a6,8g6,8f6,8a6,2g6`

# IR Learn & Replay

## IR Learn

Topic: `<Base topic>/api2/status/ir`

The OS will send information about all received IR messages to this topic.
Example message below:


```
{
  "raw":
"472209080a190909090809080a0809080909090808090909080a070a08091a090809080a0809080a080908090909080
a0809190a0809080909090809080a0809080a08091a0908091a0a19091a09190a080908091a0a0809190a190a19091
a09080a190a",
  "proto": 11,
  "addr": "0x0008",
  "cmd": "0x003d"
}
```


"proto" field values:

```
UNKNOWN = 0,
PULSE_WIDTH = 1,
PULSE_DISTANCE = 2,
APPLE = 3,
DENON = 4,
JVC = 5,
LG = 6,
LG2 = 7,
NEC = 8,
NEC2 = 9,
```

```
ONKYO = 10,
PANASONIC = 11,
KASEIKYO = 12,
KASEIKYO_DENON = 13,
KASEIKYO_SHARP = 14,
KASEIKYO_JVC = 15,
KASEIKYO_MITSUBISHI = 16,
RC5 = 17,
RC6 = 18,
RC6A = 19,
SAMSUNG = 20,
SAMSUNGLG = 21,
SAMSUNG48 = 22,
SHARP = 23,
SONY = 24,
BANG_OLUFSEN = 25,
BOSEWAVE = 26,
LEGO_PF = 27,
MAGIQUEST = 28,
WHYNTER = 29,
FAST = 30,
OTHER = 31,
```

## Replay

Topic: `<Base topic>/api2/write/ir`

Raw payload example:

```
472209080a190909090809080a0809080909090808090909080a070a08091a090809080a0809080a080908090909080a
0809190a0809080909090809080a0809080a08091a0908091a0a19091a09190a080908091a0a0809190a190a19091a
09080a190a
```

> Starting from SLZB-OS v3.3.0 you can use JSON payload below:

Json payload examples:

```
{
  "proto": 11,
  "addr": "0x0008",
```

```
  "cmd": "0x003d",
  "repeats": 5
}
```

```
{
  "proto": 11,
  "addr": 8,
  "cmd": 61,
  "repeats": 5
}
```

```
{"raw":"472209080a190909090809080a0809080909090808090909080a070a08091a090809080a0809080a080908090909080a0809190a0809080909090809080a0809080a08091a0908091a0a19091a09190a080908091a0a0809190a190a19091a09080a190a"}
```

# Ambilight

Topic: `<Base topic>/api2/write/ambilight`

Payload example:

```
{"color":"#00ff00","bri":128,"effect":2,"speed":10}
```

If you only need to change one ambilight parameter then you can send only that one:

```
{"color":"#ffff00"}
```

`color` - LEDs color in #RRGGBB hex format.
`bri` - Brightness from 1 to 255
`effect` - effect to be installed. You can choose between: 0 - Solid, 1 - LEDs disabled, 2 - Blur, 3 - Rainbow.
`speed` - speed for this effect. Range: 1 - 50

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