Light is OSRAM

LIGHTIFY Home: Cloud REST API Getting started

BUILD YOUR OWN LIGHT CONTROL
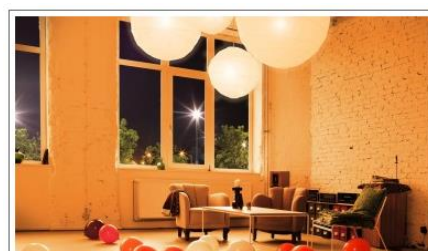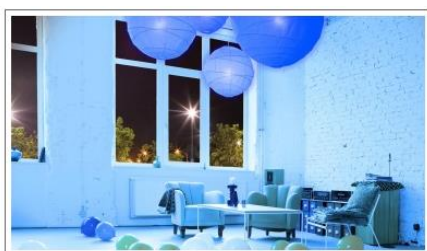

Our RESTful API to the LIGHTIFY Cloud

• Build your own PC App, mobile App, cloud to cloud or device to device communication in order to control the lights of your LIGHTIFY system.

• Access the API website to view documentation and a sample application as well as sample code.
  - https://eu.lightify-api.org (for Europe)
  - https://us.lightify-api.org (for US, CA, AUS)

• The following pages will help you to get started quickly.

VERSION INFORMATION:

Please make sure that the minimum Firmware version of your gateway is:
„WLAN 1.1.2.101"
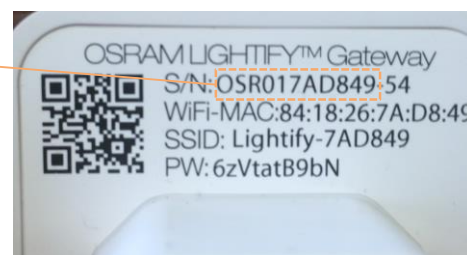
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Authentication

The cloud API uses security tokens to verify the identity of the user and the validity of the request. Here we show an example for controlling a device in Europe.

STEP 1: Receive the Security Token

METHOD: POST
URL: https://eu.lightify-api.org/lightify/services/session
HEADER: { "Content-Type" : "application/json"}
BODY: {"username" : "your-email@of-your-lightify.account",
"password" : „your-password",
"serialNumber" : "OSR0xxxxxxx"}

RESPONSE   { "userId": "123456", "securityToken":
BODY: "123456-abcdefghijklmnopqrstuvwxyz123"}

OSRAM LIGHTIFY™ Gateway
S/N: OSR017AD849-54
WiFi-MAC:84:18:26:7A:D8:49
SSID: Lightify-7AD849
PW: 6zVtatB9bN

STEP 2: Use the Security Token

Add the token into the header of subsequent commands:

HEADER: { "Content-Type" : "application/json";
"authorization": "123456-abcdefghijklmnopqrstuvwxyz123"}

NOTES:

The security token is valid for 15 minutes. In case commands are being sent, the validity period starts over.

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Light control

EXAMPLE: Turn on lights in group 2

METHOD: GET
URL: https://eu.lightify-api.org/lightify/services**/group/set?idx=2&onoff=1**
HEADER: { "Content-Type" : "application/json";
                  "authorization": "123456-abcdefghijklmnopqrstuvwxyz123"}

NOTES:

The /device/set or group/set method alters the state of a group of devices.

Attribute	Action	Value range	Example
onoff	New On/Off state	0,1	1
level	New dimming level	0.000 …1.000	0.1
saturation	New saturation	0 … 1	0.5
hue	New hue	0.000 … 360.000	123.456
time	Transition time in 1/10th of a second	0 … 1000	50
ctemp	New color temperature	1500 … 8000	2700

While the parameter "idx" is required, other parameters can only be used in defined combinations within a single command submission. The following combination of parameters is allowed

- onoff and level
- hue and saturation
- ctemp
- setting only one value of onoff, level, hue, saturation, ctemp
- the transition time attribute can be combined with any of the above

The cloud API will accept calls up to a frequency of 60 per second and then throttle the connection in case this limit gets exceeded..

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System information

EXAMPLE: Get list of connected devices

METHOD: GET
URL: https://eu.lightify-api.org/lightify/services/devices
HEADER: { "Content-Type" : "application/json";
            "authorization": "123456-abcdefghijklmnopqrstuvwxyz123"}

RETURN   [
             {
            "deviceId": 1,
            "deviceType": "LIGHT",
            "manufacturer": "OSRAM",
            "modelName": "Classic A60 RGBW",
            "name": "A60RGBW 01",
            "groupList": [1   ],
            "bmpClusters": ["onOff", "Level", "Color", "Temperature"   ],
            "online": 1,
            "on": 1,
            "brightnessLevel": 1,
            "hue": 0,   "saturation": 0,
            "temperature": 2702,
            "firmwareVersion": "01020412",
            "color": "FFFFFF"
            },
            {
            "deviceId": 2,
            …..

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Popular commands

Broadcasting	Comment
device/all/set?onoff=0	turns all devices off
device/all/set?onoff=1	turns all devices on
Single device operation	**Comment**
device/set?idx=8&level=1&time=20&onoff=1	turns on with fading
device/set?idx=8&time=0&onoff=0	turns off without fading
device/set?idx=8&time=60&color=FF0000	color changes with fading
device/set?idx=8&time=0&color=00FFFF	color changes without fading
device/set?idx=8&time=00&onoff=1&level=0.2	dims down to 20%
device/set?idx=8&time=00&hue=1&saturation=1	sets to hue 1 (deep red) with full saturation
device/set?idx=8&time=00&onoff=1	turn on without fading
device/set?idx=8&time=70&onoff=0	turn off with fading
device/set?idx=8&onoff=1	turn on without fading
device/set?idx=8&time=00&ctemp=2000	color temperature change to 2000K
Group operations	**Comment**
group/set?idx=1&time=60&onoff=1	turns on with fading
group/set?idx=1&time=60&color=00FFFF	Color changes fading with time
group/set?time=60&idx=1&color=FF0000	Color changes fading with time
group/set?idx=1&hue=1&saturation=1&time=40	hue and saturation fading with time
group/set?idx=1&onoff=0&time=40	turns off with fading
group/set?idx=1&time=60&ctemp=8000	temperature change with fading
group/set?idx=1&level=1&time=40	level fading with time
group/set?idx=1&time=60&level=0.03	level changes with fading
group/set?idx=1&time=60&onoff=0	turn off with fading
Scene	**Comment**
scene/recall?sceneId=1 .	time not supported
Session	**Comment**
scene/recall?sceneId=1	time not supported