
Govee API

API Reference

API Version 1.3

You can always get the latest API guide through the link below:

<https://govee-public.s3.amazonaws.com/developer-docs/GoveeAPIReference.pdf>

Govee Team

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Getting Started with the Govee API

Use the Govee API to control your devices and query your device state.

The device models supported by the current version are H6160, H6163, H6104, H6109, H6110, H6117, H6159, H7022, H6086, H6089, H6182, H6085, H7014, H5081, H6188, H6135, H6137, H6141, H6142, H6195, H7005, H6083, H6002, H6003, H6148, H6052, H6143, H6144, H6050, H6199, H6054, H5001, H6050, H6154, H6143, H6144, H6072, H6121, H611A, H5080, H6062, H614C, H615A, H615B, H7020, H7021, H614D, H611Z, H611B, H611C, H615C, H615D, H7006, H7007, H7008, H7012, H7013, H7050, H6051, H6056, H6061, H6058, H6073, H6076, H619A, H619C, H618A, H618C, H6008, H6071, H6075 , H614A, H614B, H614E, H618E, H619E

Here are a few things to know before you start.

1. How to use Govee API key
2. Rate limiting

How to Use Govee API Key

The Govee API Key is used for authentication. Requests that require authentication will return *401Unauthorized*.

Use http header 'Govee-API-Key' to send Govee API Key. You can learn how to use it in the API examples.

Rate limiting

For all requests, the rate limit allows for up to 100 requests per minute. Requests are associated with the originating IP address.

The returned HTTP headers of any API request show your current rate limit status:

Header Name	Description
X-RateLimit-Limit	The maximum number of requests you're permitted to make per minute.
X-RateLimit-Remaining	The number of requests remaining in the current rate limit window.
X-RateLimit-Reset	The time at which the current rate limit window resets in UTC epoch seconds .

Govee APIs

DeviceList

GET /v1/devices

Get information about all supported devices in the account.

Request Headers

Govee-API-Key : {your_Govee_API_KEY}

Response Body parameters

Content Type : application/json

code

The code value will be 200 when the request process successfully.

Type: number

Required: Yes

message

The message value will be "success" when the request process successfully. Or it will be the error message.

Type: string

Required: Yes

data

The response data.

Type: object

Required: Yes

data.devices

Return your devices supported by the Govee API.

Type: array

Required: Yes

data.devices.model

Product Model of your device.

Type: string

Required: Yes

data.devices.device

Mac address of your device. Use device and model to identify the target one device.

Type: string

Required: Yes

data.devices.controllable

Controllable will be true when the device support commands to control.

Valid Values: true, false

Type: bool

Required: Yes

data.devices.retrievable

Retrievable will be true when the device support querying the current device state.

Valid Values: true, false

Type: bool

Required: Yes

data.devices.supportCmds

Commands supported by the device.

Valid Values in the array: "turn", "brightness", "color", "colorTem"

Type: array

Required: Yes

Errors

AuthorizationError

Indicates that the Govee API key is invalid.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

Example

Sample Request

Request URL: <https://developer-api.govee.com/v1/devices>

Request Method: GET

Request Header:

Govee-API-Key: 00000000-729c-4b82-b536-000000000

Sample Response

```
{
  "data": {
    "devices": [
      {
        "device": "99:E5:A4:C1:38:29:DA:7B",
        "model": "H6159",
        "deviceName": "test light",
        "controllable": true,
        "retrievable": true,
        "supportCmds": [
          "turn",
          "brightness",
          "color",
          "colorTem"
        ],
        "properties": {
          "colorTem": {
            "range": {
              "min": 2000,
              "max": 9000
            }
          }
        }
      },
      {
        "device": "34:20:03:2e:30:2b",
        "model": "H5081",
        "deviceName": "Smart Plug",
        "controllable": true,
        "retrievable": true,
        "supportCmds": [
          "turn"
        ]
      }
    ]
  }
}
```

```
},  
"message": "Success",  
"code": 200  
}
```

DeviceControl

Use supported commands to control the device.

Request Headers

Content-Type : application/json

Govee-API-Key : {*your_Govee_API_KEY*}

Request Body parameters

device

The Mac address of the device you want to control.

Type: String

Required: Yes

model

The Model of the device you want to control

Type: String

Required: Yes

cmd

Device commands.

Type: object

Required: Yes

cmd.name

Device commands. Use with `cmd.value`.

Valid values: "turn", "brightness", "color", "colorTem"

Type: object

Required: Yes

cmd.value

Device commands. Use with `cmd.name`.

Type: number

Required: Yes

Demos:

```
{"name": "turn", value: "off"}
```

```
{"name": "brightness", value: 10}
```

```
{"name": "color", value: {"r": 255, "g": 255, "b": 255}}
```

```
{"name": "colorTem", value: 7000}
```

When cmd.name is "turn":
the valid values are "on" and "off".

Type: string

When cmd.name is "brightness":
the valid values are between 0 and 100, and 0 will turn off the device

Type: number

When cmd.name is "color":

Type: object

cmd.value.r

Red value. Valid range is 0~255.

Type: number

cmd.value.g

Green value. Valid range is 0~255.

Type: number

cmd.value.b

Blue value. Valid range is 0~255.

Type: number

When cmd.name is "colorTem":

the valid values are returned by DeviceList, there will be one more field named "properties".

```
"properties": {  
    "colorTem": {  
        "range": {  
            "min": 2000,  
            "max": 9000  
        }  
    }  
}
```

Response Body parameters

Content Type : application/json

code

The code value will be 200 when the request process successfully.

Type: number

Required: Yes

message

The message value will be "success" when the request process successfully. Or it will be the error message.

Type: string

Required: Yes

data

The response data.

Type: object

Required: Yes

Errors

AuthorizationError

Indicates that the Govee API key is invalid.

HTTP Status Code: 403

InternalServerError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Example

Sample Request 1

Request URL: `https://developer-api.govee.com/v1/devices/control`

Request Method: PUT

Request Header:

Content-Type : application/json

Govee-API-Key : 00000000-729c-4b82-b536-00000000

Request body

```
{
  "device": "34:20:03:15:82:ae",
  "model": "H6089",
  "cmd": {
    "name": "turn",
    "value": "on"
  }
}
```

Sample Request 2

Request URL: `https://developer-api.govee.com/v1/devices/control`

```
Request Method: PUT
Request Header:
Content-Type : application/json
Govee-API-Key : 00000000-729c-4b82-b536-0000000000
Request body
{
  "device": "34:20:03:15:82:ae",
  "model": "H6089",
  "cmd": {
    "name": "brightness",
    "value": 50
  }
}
```

Sample Request 3

```
Request URL: https://developer-api.govee.com/v1/devices/control
Request Method: PUT
Request Header:
Content-Type : application/json
Govee-API-Key : 00000000-729c-4b82-b536-0000000000
Request body:
{
  "device": "34:20:03:15:82:ae",
  "model": "H6089",
  "cmd": {
    "name": "color",
    "value": {
      "r": 255,
      "g": 255,
      "b": 255
    }
  }
}
```

Sample Request 4

```
Request URL: https://developer-api.govee.com/v1/devices/control
Request Method: PUT
Request Header:
Content-Type : application/json
Govee-API-Key : 00000000-729c-4b82-b536-0000000000
Request body
{
  "device": "34:20:03:15:82:ae",
```

```
"model": "H6089",  
"cmd": {  
  "name": "colorTem",  
  "value": 7000  
}
```

Sample Response

```
{  
  "code": 200,  
  "message": "Success",  
  "data": {}  
}
```

DeviceState

Query the device state.

Request Headers

Content-Type : application/json
Govee-API-Key : {*your_Govee_API_KEY*}

Request Query parameters

device

The Mac address of the device you want to control.

Type: String

Required: Yes

model

The Model of the device you want to control

Type: String

Required: Yes

Response Body parameters

Content Type : application/json

code

The code value will be 200 when the request process successfully.

Type: number

Required: Yes

message

The message value will be "success" when the request process successfully. Or it will be the error message.

Type: string

Required: Yes

data

The response data.

Type: object

Required: Yes

data.model

Product Model of your device.

Type: array

Required: Yes

data.device

Mac address of your device.

Type: string

Required: Yes

data.name

Your device name.

Type: string

Required: Yes

data.properties

Device states.

Demos:

```
{"online": "false"}  
{"powerState" : "off"}  
{"brightness" : 60}  
{"color": {"r": 255, "g" : 255, "b", 255}}  
{"colorTem": 5000}
```

Type: arr

Required: Yes

Note: "online" is implemented through the cache. Sometimes it may return wrong state. We suggest the third-party developers to ensure that even if online returns "false", the users are allowed to send control commands, then even if there the cache is wrong, the users can still control the device.

Errors

AuthorizationError

Indicates that the Govee API key is invalid.

HTTP Status Code: 403

InternalError

Indicates an internal service error.

HTTP Status Code: 500

InvalidParameter

Indicates that a request parameter does not comply with the associated constraints.

HTTP Status Code: 400

Example

Sample Request

```
Request URL: https://developer-api.govee.com/v1/devices/state?
device=06%3A7A%3AA4%3AC1%3A38%3A5A%3A2A%3A8D&model=H61
48
Request Method: GET
Request Header:
Govee-API-Key : 00000000-729c-4b82-b536-0000000000
Request Query Parameters:
device: 06:7A:A4:C1:38:5A:2A:8D
model: H6148
```

Sample Response

```
{
  "data": {
    "device": "C6:EA:B8:56:C8:C6:89:BE",
    "model": "H6188",
    "properties": [
      {
        "online": "false"
      },
      {
        "powerState": "off"
      },
      {
        "brightness": 82
      },
      {
        "color": {
```



```
    "r": 0,  
    "b": 0,  
    "g": 0  
  }  
}  
]  
,  
"message": "Success",  
"code": 200  
}
```

F&Q

1. I have a Bluetooth device. It does not support Wi-Fi. If there is available API?

No, only Wi-Fi devices support API.

2. When I use Govee Home APP to control the brightness of the device, the API will not display the changed status.

The changed status can only be synchronized when the lights is controlled via Wi-Fi, which means your phone Bluetooth needs to be turn off. Please recheck if you have turned off your phone Bluetooth.

Version history

Version 1.3

1, Support H7050, H6051, H6056, H6061, H6058, H6073, H6076, H619A, H619C, H618A, H618C, H6008, H6071, H6075 , H614A, H614B, H614E, H618E, H619E

Version 1.2

1, Support H6050, H6154, H6143, H6144, H6072, H6121, H611A, H5080, H6062, H614C, H615A, H615B, H7020, H7021, H614D, H611Z, H611B, H611C, H615C, H615D, H7006, H7007, H7008, H7012, H7013

2, The change of DeviceState:

When cmd.name is "colorTem":

the valid values are returned by DeviceList, there will be one more field named "properties".

```
"properties": {  
    "colorTem": {  
        "range": {  
            "min": 2000,  
            "max": 9000  
        }  
    }  
}
```