
Govee API

API Reference

API Version 1.0

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Getting Started with the Govee API

Use the Govee API 1.0 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, H7021, H7022, H6086, H6089, H6182, H6085, H7014, H5081, H6188, H6135, H6137, H6141, H6142, H6195, H6196, H7005, H6083, H6002, H6003, H6148.

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:

```
curl -i https://developer-api.govee.com/ping
HTTP/1.1 200 OK
Date: Tue, 30 Jun 2020 08:05:06 GMT
Content-Type: text/plain; charset=utf-8
Content-Length: 4
Connection: keep-alive
Rate-Limit-Remaining: 97
Rate-Limit-Reset: 1593504314.634753
Rate-Limit-Total: 100
Vary: Origin
Access-Control-Allow-Origin: *
X-Response-Time: 0ms
X-traceId: 68e7b870-baa8-11ea-8227-87bfa7a49d9e
```

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

Ping

GET /ping

A health check endpoint for the API that won't return any account-specific information.

Response Body

Content Type : text/plain

Pong

Errors

InternalError

Indicates an internal service error.

HTTP Status Code: 500

Example

Sample Request

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

Request Method: GET

Sample Response

Pong

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

Retrieval 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-b536-0000000000

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"
        ]
      },
      {
        "device": "C6:EA:B8:56:C8:C6:89:BE",
        "model": "H6188",
        "deviceName": "H6188_89BE",
        "controllable": true,
        "retrievable": true,
        "supportCmds": [
          "turn",
          "brightness",
          "color",
          "colorTem"
        ]
      }
    ]
  }
}
```

```
    },  
    {  
      "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

Valid values: H6160, H6163, H6104, H6109, H6110, H6117, H6159, H7021, H7022, H6086, H6089, H6182, H6085, H7014, H5081, H6188, H6135, H6137, H6141, H6142, H6195, H6196, H7005, H6083, H6002, H6003, H6148

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`.

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.
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 between 2000 and 9000.
Type: number

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

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 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-b536-0000000000

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

Valid values: H6160, H6163, H6104, H6109, H6110, H6117, H6159, H7021, H7022, H6086, H6089, H6182, H6085, H7014, H5081, H6188, H6135, H6137, H6141, H6142, H6195, H6196, H7005, H6083, H6002, H6003, H6148

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

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=H6148`

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  
}
```