



Device Timing Management

Version: 20210422

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This topic describes the related APIs of timing management.

1 API list

Request method	API	Description
POST	/v1.0/devices/{device_id}/tasks	Add a timing task to the device
GET	/v1.0/devices/{device_id}/tasks	Query the list of timing tasks of the device
GET	/v1.0/devices/{device_id}/tasks/categories/{category}	Get the information of timing tasks in a specified category
PUT	/v1.0/devices/{device_id}/tasks/groups/{group_id}	Update the information of a specified timing task group of the device
PUT	/v1.0/devices/{device_id}/tasks/categories/{category}/groups/{group_id}/status	Update the status of a specified timing task group of the device
DELETE	/v1.0/devices/{device_id}/tasks	Delete all timing tasks of the device
DELETE	/v1.0/devices/{device_id}/tasks/categories/{category}	Delete the timing tasks in a specified category
DELETE	/v1.0/devices/{device_id}/tasks/categories/{category}/groups/{group_id}	Delete the timing tasks of a specified task group in a specified category
GET	/v1.0/device-groups/{device_group_id}/tasks	Get the timing tasks of a device group

Request method	API	Description
GET	/v1.0/device-groups/{device_group_id}/categories/{category}	Query the list of timing tasks in a group
POST	/v1.0/device-groups/timers	Create a group timing task
PUT	/v1.0/device-groups/{device_group_id}/tasks	Update group timing tasks
	/groups/{group_id}	
PUT	/v1.0/device-groups/{device_group_id}/timers	Update group category timing tasks
	/categories/{category}/groups/{group_id}	
DELETE	/v1.0/device-groups/{device_group_id}/tasks	Delete timing tasks in a device group
DELETE	/v1.0/device-groups/{device_group_id}/categories/{category}	Delete timing tasks in a specified category of a group
DELETE	/v1.0/device-groups/{device_group_id}/categories/{category}/groups/{group_id}	Delete a specified timing task of a specified category in a device group

2 Add a timing task to the device

2.1 API description

This interface is used to add timing tasks for a device. Use [loops](#) to determine a cyclic timing task or non-cyclic timing task.

- Cyclic timing task: Take one week as a cycle, and you can set cyclic timing tasks from Monday to Sunday.
- Non-cyclic timing task: Set a timing task on a specified time point, and the API will limit the set time point. The time point should be later than the current time., Otherwise, a timing task can not be created, and expired information will be prompted.

2.2 API address

```
1 POST /v1.0/devices/{device_id}/timers
```

2.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_id	String	URI	Yes	Device ID.
category	String	BODY	Yes	Timing category.
loops	String	BODY	Yes	Return a 7-digit number consisting of 0 and 1 if the request failed. 0 represents closed, and 1 represents open.

Parameter name	Data type	Parameter type	Required	Description
				For example, 0000010 indicates that the task on Saturday is open and other days are closed.
time_zone	String	BODY	Yes	Time zone. For example, use +08:00 for China.
timezone_id	String	BODY	Yes	Time zone ID, such as Asia/shanghai .
instruct	Array<instruct >	BODY	Yes	The specific time and device instructions of a timing task. Multiple tasks are allowed to be set simultaneously.
alias_name	String	BODY	No	Alias name.

Description of [instruct](#)

Parameter name	Data type	Required	Description
time	String	Yes	Executing time of a timing task

Parameter name	Data type	Required	Description
functions	Array< functions >	Yes	Instructions to be executed at a scheduled time
date	String	No	Executing date of a timing task

Note: When `date` is passed in, `loops` will be 0000000, and the format of `date` is 20181212.

Description of `functions`

Parameter name	Data type	Required	Description
code	String	Yes	The code of the instruction that is to be executed
value	Object	Yes	The value of the instruction that is to be executed

2.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.

Parameter name	Data type	Description
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Object< result >	The returned result.

Description of `result`

Parameter name	Data type	Description
group_id	String	Timing task ID

2.5 Request example

```
1 POST /v1.0/devices/vdev0153490924111111/timers
2 {
3     "instruct":[
4         {
5             "functions":[
6                 {
7                     "code":"switch_led",
8                     "value":true
9                 },
10                {
11                    "code":"bright_value_v2",
12                    "value":500
13                }
14            ],
15            "date":"20200210",
16            "time":"17:41"
17        }
18    ],
19    "loops":"0000000",
20    "category":"test",
21    "timezone_id":"Asia/Shanghai",
22    "time_zone":"+8:00"
23 }
```

2.6 SDK example

```
1 N/A
```

2.7 Return example

```
1 { "success": true, "result": { "group_id": "000000****" } }
```

2.8 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).

Error code	Description
500	System error
1106	Illegal permission
1109	Illegal parameter

3 Query the list of timing task of the device

3.1 API description

This interface is used to query the list of timing task details of a specified device ID.

3.2 API address

```
1 GET /v1.0/devices/{device_id}/timers
```

3.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_id	String	URI	Yes	Device ID

3.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.
true: succeeded		

Parameter name	Data type	Description
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Object< result >	The returned result.

Description of `result`

Parameter name	Data type	Description
groups	Array< groups >	The list of timing task information
category	Object< category >	Information of timing task category

Description of `groups`

Parameter name	Data type	Description
timers	Object< timers >	Timing task information
id	String	Timing task number

Description of `category`

Parameter name	Data type	Description
category	String	Timing task category
status	Integer	The status of a timing task category

Description of `timers`

Parameter name	Data type	Description
date	String	Date of the set timing task
timezone_id	String	Time zone ID
loops	String	Cyclic timing information
time	String	The set time
status	Integer	Status of the timing task
		0: disabled
		1: enabled
		2: deleted
functions	Array< functions >	Instruction of timing
group_order	Integer	Specified order
timer_id	Integer	The unique identifier of timing information
alias_name	String	Remarks

Description of `functions`

Parameter name	Data type	Required	Description
code	String	Yes	The code of the instruction that is to be executed



3 QUERY THE LIST OF TIMING TASK OF THE DEVICE

Parameter name	Data type	Required	Description
value	Object	Yes	The value of the instruction that is to be executed

3.5 Request example

```
1 GET /v1.0/devices/vdev0154458004640011/timers
```

3.6 SDK example

```
1 N/A
```

3.7 Return example

```
1  {
2      "result": [
3          {
4              "category": {
5                  "category": "test",
6                  "status": 1
7              },
8              "groups": [
9                  {
10                     "id": "000000mwf3",
11                     "timers": [
12                         {
13                             "alias_name": "",
14                             "date": "20200210",
15                             "functions": [
16                                 {
17                                     "code": "bright_value_v2",
18                                     "value": 5000
19                                 },
20                                 {
21                                     "code": "switch_led",
22                                     "value": true
23                                 }
24                             ],
25                             "group_order": 0,
26                             "is_app_push": false,
27                             "loops": "0000000",
28                             "status": 0,
29                             "time": "17:30",
30                             "timer_id": 4906528,
31                             "timezone_id": "Asia/Shanghai"
32                         }
33                     ]
34                 }
35             ]
36         }
37     ],
38     "success": true,
39     "t": 1581336613789
40 }
```

3.8 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).



3 QUERY THE LIST OF TIMING TASK OF THE DEVICE

Error code	Description
500	System error
1106	Illegal permission



4 Get the timing task information of a specified category

4.1 API description

This interface is used to get the timing task information of a specified category under a specified device.

4.2 API address

```
1 GET /v1.0/devices/{device_id}/timers/categories/{category}
```

4.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_id	String	URI	Yes	Device ID
category	String	URI	Yes	Timing category

4.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.



4 GET THE TIMING TASK INFORMATION OF A SPECIFIED CATEGORY

Parameter name	Data type	Description
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Object< result >	The returned result.

Description of `result`

Parameter name	Data type	Description
groups	Array< groups >	The list of timing task information
category	Object< category >	The update time of device status

Description of `groups`

Parameter name	Data type	Description
timers	Object< timers >	Timing task information
id	String	Timing task number

Description of `category`

Parameter name	Data type	Description
category	String	Timing task category



4 GET THE TIMING TASK INFORMATION OF A SPECIFIED CATEGORY

Parameter name	Data type	Description
status	Integer	The status of a timing task category

Description of `timers`

Parameter name	Data type	Description
date	String	Date of the set timing task
timezone_id	String	Time zone ID
loops	String	Cyclic timing information
time	String	The set time
status	Integer	Status of the timing task

0: disabled

1: enabled

2: deleted

functions	Array< functions >	Instruction of timing
group_order	Integer	Specified order
timer_id	Integer	The unique identifier of timing information
alias_name	String	Remarks

Description of `functions`



4 GET THE TIMING TASK INFORMATION OF A SPECIFIED CATEGORY

Parameter name	Data type	Required	Description
code	String	Yes	The code of the instruction that is to be executed
value	Object	Yes	The value of the instruction that is to be executed

4.5 Request example

```
1 GET /v1.0/devices/vdev0154458004640011/timers/categories/10
```

4.6 SDK example

```
1 N/A
```

4.7 Return example

```
1  {
2      "result": [
3          {
4              "category": {
5                  "category": "test",
6                  "status": 1
7              },
8              "groups": [
9                  {
10                     "id": "000000mwf3",
11                     "timers": [
12                         {
13                             "alias_name": "",
14                             "date": "20200202",
15                             "functions": [
16                                 {
17                                     "code": "bright_value_v2",
18                                     "value": 5000
19                                 },
20                                 {
21                                     "code": "switch_led",
22                                     "value": true
23                                 }
24                             ],
25                             "group_order": 0,
26                             "is_app_push": false,
27                             "loops": "0000000",
28                             "status": 0,
29                             "time": "17:30",
30                             "timer_id": 4906528,
31                             "timezone_id": "Asia/Shanghai"
32                         }
33                     ]
34                 }
35             ]
36         }
37     ],
38     "success": true,
39     "t": 1581336613789
40 }
```

4.8 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).



4 GET THE TIMING TASK INFORMATION OF A SPECIFIED CATEGORY

Error code	Description
500	System error
1106	Illegal permission



5 Update the information of a specified timing task group of the device

5.1 API description

This interface is used to update the information of a specified timing task group of the device.

5.2 API address

```
1 PUT /v1.0/devices/{device_id}/timers/groups/{group_id}
```

5.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_id	String	URI	Yes	Device ID.
group_id	String	URI	Yes	Timing task group ID
loops	String	BODY	Yes	A 7-digit number consisting of 0 and 1. 0 means closed, and 1 means open.



5 UPDATE THE INFORMATION OF A SPECIFIED TIMING TASK GROUP OF THE DEVICE

Parameter name	Data type	Parameter type	Required	Description
				For example, 0000010 indicates that the task on Saturday is open and other days are closed.
category	String	BODY	Yes	Timing task category
time_zone	String	BODY	Yes	Time zone. For example, use +08:00 for China.
timezone_id	String	BODY	Yes	Time zone ID, such as Asia/shanghai .
instruct	Array<instruct >	BODY	Yes	The specified time and device instructions of a timing task. Multiple tasks are allowed to be set simultaneously.
alias_name	String	BODY	No	Alias name.

Description of [instruct](#)



5 UPDATE THE INFORMATION OF A SPECIFIED TIMING TASK GROUP OF THE DEVICE

Parameter name	Data type	Required	Description
time	String	Yes	Executing time of a timing task
functions	Array< functions >	Yes	Instructions to be executed at a scheduled time
date	String	No	Executing date of a timing task

Note: When `date` is passed in, `loops` will be 0000000, and the format of `date` is 20181212.

Description of `functions`

Parameter name	Data type	Required	Description
code	String	Yes	The code of the instruction that is to be executed
value	Object	Yes	The value of the instruction that is to be executed

5.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .



5 UPDATE THE INFORMATION OF A SPECIFIED TIMING TASK GROUP OF THE DEVICE

Parameter name	Data type	Description
success	Boolean	Determine whether the request succeeded or not.
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Boolean	Determine whether the request succeeded or not. It will return null if it failed.

5.5 Request example

```
1 PUT /v1.0/devices/vdev0154458004640011/timers/groups/100
2
3 {
4     "loops":"0001000",
5     "time_zone":"+08:00",
6     "timezone_id":"Asia/ShangHai",
7     "category":"test",
8     "instruct":[
9         {
10             "time":"12:00",
11             "date":"20181212",
12             "functions":[
13                 {
14                     "code":"switch",
15                     "value":true
16                 },
17                 {
18                     "code":"bright",
19                     "value":100
20                 }
21             ]
22         },
23         {
24             "time":"12:10",
25             "date":"20181212",
26             "functions":[
27                 {
28                     "code":"switch",
29                     "value":false
30                 }
31             ]
32         }
33     ]
34 }
```

5.6 SDK example

```
1 N/A
```

5.7 Return example



```
1 { "success": true, "result": true }
```

5.8 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).

Error code	Description
500	System error
1106	Illegal permission



6 Update the status of a specified timing task group of the device

6.1 API description

This interface is used to update the status of the device timing task group.

6.2 API address

```
1 PUT /v1.0/devices/{device_id}/timers/categories/{category}/groups/{g
2 roup_id}/status
```

6.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_id	String	URI	Yes	Device ID
group_id	String	URI	Yes	Timing task group ID
category	String	URI	Yes	Timing task group category
value	String	BODY	Yes	Timing task status

0: disabled

1: enabled



6 UPDATE THE STATUS OF A SPECIFIED TIMING TASK GROUP OF THE DEVICE

Parameter name	Data type	Parameter type	Required	Description
				2: deleted

6.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Boolean	Determine whether the request succeeded or not. It will return null if it failed.

6.5 Request example



6 UPDATE THE STATUS OF A SPECIFIED TIMING TASK GROUP OF THE DEVICE

```
1 PUT /v1.0/devices/vdev0154458004640011/timers/categories/100/groups/  
2 0000002ftg/status  
3 {  
4     "value": "0"  
5 }
```

6.6 SDK example

```
1 TuyaClient client = new TuyaClient(clientId, secret, RegionEnum.CN);  
2 List<DeviceVo> deviceFunctions = client.getUserDevices(UID);  
3 System.out.println("Get the device list of the user: ");  
4 System.out.println(JSONObject.toJSONString(deviceFunctions));
```

6.7 Return example

```
1 {  
2     "success": true,  
3     "result": true  
4 }
```

6.8 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).

Error code	Description
500	System error
1106	Illegal permission

7 Delete all timing tasks of the device

7.1 API description

This interface is used to delete all timing tasks of the device.

7.2 API address

```
1 DELETE /v1.0/devices/{device_id}/timers
```

7.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_id	String	URI	Yes	Device ID

7.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.
		true: succeeded

Parameter name	Data type	Description
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Boolean	Determine whether the request succeeded or not. It will return null if it failed.

7.5 Request example

```
1 DELETE /v1.0/devices/vdevo154458004640011/timers
```

7.6 SDK example

```
1 N/A
```

7.7 Return example

```
1 {
2   "success": true,
3   "result": true
4 }
```

7.8 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).

Error code	Description
500	System error
1106	Illegal permission

8 Delete the timing tasks in a specified category

8.1 API description

This interface is used to delete the timing task in a specified category.

8.2 API address

```
1 DELETE /v1.0/devices/{device_id}/timers/categories/{category}
```

8.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_id	String	URI	Yes	Device ID
category	String	URI	Yes	Timing task group category

8.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.

Parameter name	Data type	Description
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Boolean	Determine whether the request succeeded or not. It will return null if it failed.

8.5 Request example

```
1 DELETE /v1.0/devices/vdevo154458004640011/timers/categories/100
```

8.6 SDK example

```
1 N/A
```

8.7 Return example

```
1 {  
2     "success": true,  
3     "result": true  
4 }
```

8.8 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).

Error code	Description
500	System error
1106	Illegal permission



9 Delete the timing task of a specified timing group in a specified category

9.1 API description

Delete the timing task of a specified timing group in a specified category.

9.2 API address

```
1 DELETE /v1.0/devices/{device_id}/timers/categories/{category}/groups
2 /{group_id}
```

9.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_id	String	URI	Yes	Device ID
category	String	URI	Yes	Timing task category
group_id	String	URI	Yes	Timing task group ID

9.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .



DELETE THE TIMING TASK OF A SPECIFIED TIMING GROUP IN A SPECIFIED CATEGORY

Parameter name	Data type	Description
success	Boolean	Determine whether the request succeeded or not.
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Boolean	Determine whether the request succeeded or not. It will return null if it failed.

9.5 Request example

```
1 DELETE /v1.0/devices/vdev0154458004640011/timers/categories/100/groups/0000002ftg
```

9.6 SDK example

```
1 N/A
```



DELETE THE TIMING TASK OF A SPECIFIED TIMING GROUP IN A SPECIFIED CATEGORY

9.7 Return example

```
1 {  
2   "success": true,  
3   "result": true  
4 }
```

9.8 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).

Error code	Description
500	System error
1106	Illegal permission

10 Get the timing tasks of a device group

10.1 API description

This interface is used to get the timing tasks of a device group.

10.2 API address

```
1 GET /v1.0/device-groups/{device_group_id}/timers
```

10.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_group_id	String	URI	Yes	Device group ID

10.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.
		true: succeeded

Parameter name	Data type	Description
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Object< result >	The returned result.

Description of `result`

Parameter name	Data type	Description
groups	Array< group >	The list of timing task information
category	Object< category >	Information of timing task category

Description of `groups`

Parameter name	Data type	Description
timers	Object< timers >	Timing task information
id	String	Timing task number

Description of `category`

Parameter name	Data type	Description
category	String	Timing task category
status	Integer	The status of a timing task category

Description of `timers`

Parameter name	Data type	Description
date	String	Date of the set timing task
timezone_id	String	Time zone ID
loops	String	Cyclic timing information
time	String	The set time
status	Integer	Status of the timing task
		0: disabled
		1: enabled
		2: deleted
functions	Array< functions >	Instruction of timing
group_order	Integer	Specified order
timer_id	Integer	The unique identifier of timing information
alias_name	String	Remarks

Description of `functions`

Parameter name	Data type	Required	Description
code	String	Yes	The code of the instruction that is to be executed

Parameter name	Data type	Required	Description
value	Object	Yes	The value of the instruction that is to be executed

10.5 Request example

```
1 GET /v1.0/device-groups/4535425325/timers
```

10.6 Return example

```
1  {
2      "result": [
3          {
4              "category": {
5                  "category": "test",
6                  "status": 1
7              },
8              "groups": [
9                  {
10                     "id": "000000mwf3",
11                     "timers": [
12                         {
13                             "alias_name": "",
14                             "date": "20200210",
15                             "functions": [
16                                 {
17                                     "code": "bright_value_v2",
18                                     "value": 5000
19                                 },
20                                 {
21                                     "code": "switch_led",
22                                     "value": true
23                                 }
24                             ],
25                             "group_order": 0,
26                             "is_app_push": false,
27                             "loops": "0000000",
28                             "status": 0,
29                             "time": "17:30",
30                             "timer_id": 4906528,
31                             "timezone_id": "Asia/Shanghai"
32                         }
33                     ]
34                 }
35             ]
36         }
37     ],
38     "success": true,
39     "t": 1581336613789
40 }
```

10.7 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).



10 GET THE TIMING TASKS OF A DEVICE GROUP

Error code	Description
500	System error

11 Query the list of timing tasks in a group

11.1 API description

This interface is used to query the list of timing tasks in a group.

11.2 API address

```
1 GET /v1.0/device-groups/{device_group_id}/timers/categories/{category}
2 y}
```

11.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_group_id	String	URI	Yes	Device ID
category	String	URI	Yes	Timing category

11.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.
true: succeeded		

Parameter name	Data type	Description
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Object< result >	The returned result.

Description of `result`

Parameter name	Data type	Description
groups	Array< groups >	The list of timing task information
category	Object< category >	The update time of device status

Description of `groups`

Parameter name	Data type	Description
timers	Object< timers >	Timing task information
id	String	Timing task number

Description of `category`

Parameter name	Data type	Description
category	String	Timing task category

Parameter name	Data type	Description
status	Integer	The status of a timing task category

Description of `timers`

Parameter name	Data type	Description
date	String	Date of the set timing task
timezone_id	String	Time zone ID
loops	String	Cyclic timing information
time	String	The set time
status	Integer	Status of the timing task

0: disabled

1: enabled

2: deleted

functions	Array< functions >	Instruction of timing
group_order	Integer	Specified order
timer_id	Integer	The unique identifier of timing information
alias_name	String	Remarks

Description of `functions`

Parameter name	Data type	Required	Description
code	String	Yes	The code of the instruction that is to be executed
value	Object	Yes	The value of the instruction that is to be executed

11.5 Request example

```

1 GET /v1.0/device-groups/{device_group_id}/timers/categories/{category}
2 ry}

```

11.6 Return example

```
1  {
2      "result": [
3          {
4              "category": {
5                  "category": "test",
6                  "status": 1
7              },
8              "groups": [
9                  {
10                     "id": "000000mwf3",
11                     "timers": [
12                         {
13                             "alias_name": "",
14                             "date": "20200202",
15                             "functions": [
16                                 {
17                                     "code": "bright_value_v2",
18                                     "value": 5000
19                                 },
20                                 {
21                                     "code": "switch_led",
22                                     "value": true
23                                 }
24                             ],
25                             "group_order": 0,
26                             "is_app_push": false,
27                             "loops": "0000000",
28                             "status": 0,
29                             "time": "17:30",
30                             "timer_id": 4906528,
31                             "timezone_id": "Asia/Shanghai"
32                         }
33                     ]
34                 }
35             ]
36         }
37     ],
38     "success": true,
39     "t": 1581336613789
40 }
```

11.7 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).



11 QUERY THE LIST OF TIMING TASKS IN A GROUP

Error code	Description
500	System error

12 Create a group timing task

12.1 API description

This interface is used to create a group timing task.

12.2 API address

```
1 POST /v1.0/device-groups/timers
```

12.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
id	String	URI	Yes	Device group ID.
category	String	BODY	Yes	Timing category.
loops	String	BODY	Yes	Return a 7-digit number consisting of 0 and 1 if the request failed. 0 represents closed, and 1 represents open.

Parameter name	Data type	Parameter type	Required	Description
				For example, 0000010 indicates that the task on Saturday is open and other days are closed.
time_zone	String	BODY	Yes	Time zone. For example, use +08:00 for China.
timezone_id	String	BODY	Yes	Time zone ID, such as Asia/shanghai .
instruct	Array<instruct >	BODY	Yes	The specific time and device instructions of a timing task. Multiple tasks are allowed to be set simultaneously.
alias_name	String	BODY	No	Alias name.

Description of [instruct](#)

Parameter name	Data type	Required	Description
time	String	Yes	Executing time of a timing task

Parameter name	Data type	Required	Description
functions	Array< functions >	Yes	Instructions to be executed at a scheduled time
date	String	No	Executing date of a timing task

Note: When `date` is passed in, `loops` will be 0000000, and the format of `date` is 20181212.

Description of `functions`

Parameter name	Data type	Required	Description
code	String	Yes	The code of the instruction that is to be executed
value	Object	Yes	The value of the instruction that is to be executed

12.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.

Parameter name	Data type	Description
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Object< result >	The returned result.

Description of `result`

Parameter name	Data type	Description
group_id	String	Timing task ID

12.5 Request example

```
1 POST /v1.0/device-groups/timers
2 {
3     "id": "682288h",
4     "instruct": [
5         {
6             "functions": [
7                 {
8                     "code": "switch_led",
9                     "value": true
10                },
11                {
12                    "code": "bright_value_v2",
13                    "value": 500
14                }
15            ],
16            "date": "20200210",
17            "time": "17:41"
18        }
19    ],
20    "loops": "0000000",
21    "category": "test",
22    "timezone_id": "Asia/Shanghai",
23    "time_zone": "+8:00"
24 }
```

12.6 Return example

```
1 {
2     "success": true,
3     "result": {
4         "group_id": "0000002ftg"
5     }
6 }
```

12.7 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).

Error code	Description
500	System error

13 Update group timing tasks

13.1 API description

This interface is used to update group timing tasks.

13.2 API address

```
1 PUT /v1.0/device-groups/{device_group_id}/timers/groups/{group_id}
```

13.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_group_id	String	URI	Yes	Device group ID.
group_id	String	URI	Yes	Timing task ID.
category	String	BODY	Yes	Timing category.
loops	String	BODY	Yes	Return a 7-digit number consisting of 0 and 1 if the request failed. 0 represents closed, and 1 represents open.

Parameter name	Data type	Parameter type	Required	Description
				For example, 0000010 indicates that the task on Saturday is open and other days are closed.
time_zone	String	BODY	Yes	Time zone. For example, use +08:00 for China.
timezone_id	String	BODY	Yes	Time zone ID, such as Asia/shanghai .
instruct	Array<instruct >	BODY	Yes	The specific time and device instructions of a timing task. Multiple tasks are allowed to be set simultaneously.
alias_name	String	BODY	No	Alias name.

Description of [instruct](#)

Parameter name	Data type	Required	Description
time	String	Yes	Executing time of a timing task

Parameter name	Data type	Required	Description
functions	Array< fucntions >	Yes	Instructions to be executed at a scheduled time
date	String	No	Executing date of a timing task

Note: When `date` is passed in, the `loops` should be 0000000, and the format of `date` should be YYYYMMDD (20181212).

Description of `functions`

Parameter name	Data type	Required	Description
code	String	Yes	The code of the instruction that is to be executed
value	Object	Yes	The value of the instruction that is to be executed

13.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .

Parameter name	Data type	Description
success	Boolean	Determine whether the request succeeded or not.
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Boolean	The returned result.

13.5 Request example

```
1 PUT /v1.0/device-groups/45448283/timers/groups/8912898
2 {
3     "instruct":[
4         {
5             "functions":[
6                 {
7                     "code":"switch_led",
8                     "value":true
9                 },
10                {
11                    "code":"bright_value_v2",
12                    "value":500
13                }
14            ],
15            "date":"20200210",
16            "time":"17:41"
17        }
18    ],
19    "loops":"0000000",
20    "category":"test",
21    "timezone_id":"Asia/Shanghai",
22    "time_zone":"+8:00"
23 }
```

13.6 Return example

```
1 { "success": true, "result": true }
```

13.7 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).

Error code	Description
500	System error

14 Update group category timing tasks

14.1 API description

This interface is used to update timing tasks in a group category.

14.2 API address

```
1 PUT /v1.0/device-groups/{device_group_id}/timers/categories/{category}/groups/{group_id}/status
2
```

14.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_group_id	String	URI	Yes	Device group ID
category	String	URI	Yes	Timing task group category
group_id	String	URI	Yes	Timing task group ID
value	String	BODY	Yes	Timing task status
				0: disabled
				1: enabled

Parameter name	Data type	Parameter type	Required	Description
				2: deleted

14.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Boolean	Determine whether the request succeeded or not. It will return null if it failed.

14.5 Request example

```
1 PUT /v1.0/device-groups/63434242/timers/categories/jjska/groups/5634
2 3/status
3 {
4     "value": "0"
5 }
```

14.6 Return example

```
1 {
2     "success": true,
3     "result": true
4 }
```

14.7 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).

Error code	Description
500	System error

15 Delete timing tasks in a device group

15.1 API description

This interface is used to delete timing tasks in a device group.

15.2 API address

```
1 DELETE /v1.0/device-groups/{device_group_id}/timers
```

15.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_group_id	String	URI	Yes	Device group ID

15.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.
		true: succeeded

Parameter name	Data type	Description
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Boolean	Determine whether the request succeeded or not. It will return null if it failed.

15.5 Request example

```
1 DELETE /v1.0/device-groups/782781182/timers
```

15.6 Return example

```
1 {
2   "success": true,
3   "result": true
4 }
```

15.7 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).



15 DELETE TIMING TASKS IN A DEVICE GROUP

Error code	Description
500	System error



16 Delete timing tasks in a specified category of a group

16.1 API description

This interface is used to delete timing tasks in a specified category of a group.

16.2 API address

```
1 DELETE /v1.0/device-groups/{device_group_id}/timers/categories/{cate  
2 gory}
```

16.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_id	String	URI	Yes	Device ID
category	String	URI	Yes	Timing task group category

16.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .
success	Boolean	Determine whether the request succeeded or not.

Parameter name	Data type	Description
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Boolean	Determine whether the request succeeded or not. It will return null if it failed.

16.5 Request example

```
1 DELETE /v1.0/device-groups/we7823121/timers/categories/7989921
```

16.6 Return example

```
1 {
2   "success": true,
3   "result": true
4 }
```

16.7 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).



16 DELETE TIMING TASKS IN A SPECIFIED CATEGORY OF A GROUP

Error code	Description
500	System error



17 Delete a specified timing task of a specified category in a device group

17.1 API description

This interface is used to delete a specified timing task of a specified category in a device group.

17.2 API address

```
1 DELETE /v1.0/device-groups/{device_group_id}/timers/categories/{cate
2 gory}/groups/{group_id}
```

17.3 Request parameter

Parameter name	Data type	Parameter type	Required	Description
device_group_id	String	URI	Yes	Device group ID
category	String	URI	Yes	Timing task category
group_id	String	URI	Yes	Timing task group ID

17.4 Return parameter

Parameter name	Data type	Description
code	Integer	Response code. See Error code .



DELETE A SPECIFIED TIMING TASK OF A SPECIFIED CATEGORY IN A DEVICE GROUP

Parameter name	Data type	Description
success	Boolean	Determine whether the request succeeded or not.
		true: succeeded
		false: failed
msg	String	The message returned if the request fails. It will return null if the request succeeds.
result	Boolean	Determine whether the request succeeded or not. It will return null if it failed.

17.5 Request example

```
1 DELETE /v1.0/device-groups/242342/timers/categories/vsds/groups/1312
2 34
```

17.6 Return example

```
1 {
2   "success": true,
3   "result": true
4 }
```



17.7 Error code

The following are common service exceptions for this interface. For more exception errors, see [Error Code](#).

Error code	Description
500	System error