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Date	Version	Content	Editor
2020/1/3	V1.2	1.Add payload parameter in Chapter 2.2.3 2.Add <code>test</code> button in chapter 2.2.5 to test server communication. 3.Interface display cancel display <code>update time</code>	George Peng
2020/6/15	V2.0.0	1.Migrate to the SimHome APP 2. 2.2.3 eventType up to 13 3. 2.2.3 report event add parameter "deviceId" 4. 2.2.5 Multiple addresses can be filled in 5. 3.2.1 Support form and HTTP basic to get token 6. 3.3.1 Get device list changed, add parameter "device_type" and "is_success" 7. 3.4.1 add parameter "is_success"	George Peng

1 Overview

The Role of This Platform:

This platform is available to users who need to do advanced development on the basis of SimCam series cameras(including SimCam, SimCam 1S, SimCam Alloy, SimCam Alloy 1S, SimCam Ango, SimCam Baby). On the SimCam open platform, users can configure the address of their own server, and the related events notifications of the SimCam series camera will be given back to the user server for advanced development. At the same time, users can develop applications based on the API documentation to modify the configuration of the SimCam series camera.

Targeted Crowd: Users registered in the SimHome App.

This document mainly introduces functions of the SimCam open platform and the API quick start guide. If you have any further questions, please contact us at support@simcam.ai or sdk@simcam.ai.

2 Introduction of SimCam Open Platform

2.1 Introduction of Login Interface

Address: <https://platform.simcam.cn/>

Prompt: Please login the platform by the account and password registered in SimHome APP. If you don't have a SimHome App, please download the App and proceed with the registration.



SimCam Open Platform

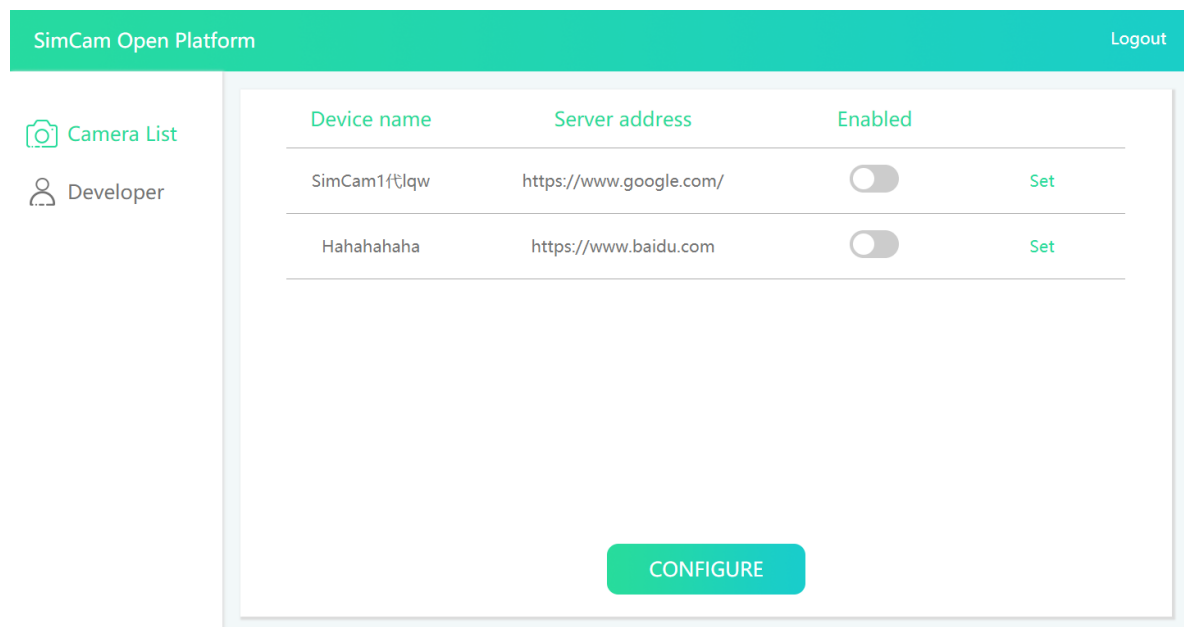
User

Password

LOGIN

Tip: Please login with SimHome App's account

2.2 Introduction of Camera Configuration Interface



2.2.1 Camera List Configuration

Description: The lists of devices that users have paired with the SimHome App.

Q: What if there is no device in the interface of camera configuration?

A: Pair a Simcam series camera to the SimHome App.

2.2.2 Device name

Description: Device's name that has been paired to the SimHome App.

Q: How to change the camera's name?

A: Change camera's name on SimHome app and then refresh the open platform.

2.2.3 Service address

Description: The server's address that provides notifications for users.

Requirements of The Format: (domain name + port + method path) or (ip + port + method path)

For Example:

- <http://www.baidu.com/simcam/receiveEvent>
- <https://www.test.com.cn:8080/simcam/receiveEvent>

Feedback Types of Events Notifications Supported by The Open Platform

- 1 (Person Detected)
- 2 (Object Monitoring)
- 3 (Face Recognized)
- 4 (Pet Appear)
- 5 (Vehicle Entering)

- 6 (Vehicle Exiting)
- 11 (Doorbell Answered Rings)
- 12 (Doorbell Missed Rings)
- 13 (Doorbell Wandering)
- 21 (Baby Crying)
- 22 (Baby Out Of Fence)
- 23 (Baby Sleeping Soundly)
- 24 (Baby Moving)

Definition of Event Notifications Interface Received by The Server

- Receiving Method: `POST`
- Parameter Type: `form-data` (x-www-form-urlencoded)
- Interface Parameter

Attribute Name	Attribute description	Type	Length	Required
deviceId	Device's Id	String	/	YES
devicename	device name	String	/	YES
eventType	EventType	Int	/	YES
eventTime	EventTime	Time Stamp	10	YES
payload	payload	String	/	YES

- **Introduction of eventType**

Value	Type	Description
1	Int	Person Detected
2	Int	Object Monitoring
3	Int	Face Recognized
4	Int	Pet Appear
5	Int	Vehicle Entering
6	Int	Vehicle Exiting
11	Int	Doorbell Answered Rings
12	Int	Doorbell Missed Rings
13	Int	Doorbell Wandering
21	Int	Baby Crying
22	Int	Baby Out Of Fence
23	Int	Baby Sleeping Soundly
24	Int	Baby Moving

- **Introduction of payload**

- When the `eventType` type is not `3` , `payload` parameter is null or empty.
- When the `eventType` type is `3` , `payload` is the current `face ID` recognized by the camera.

2.2.4 Enabled

Description: Switch on event notifications. Once turned on, if the camera detects an event, it will send an event notification to the server set by the user, and if the event notifications is off, event notification will not be sent.

2.2.5 Set

Description: Configuration interface of a single camera's event. Enter the server address where the user receives event notifications in `Server address` .

Tips

Server address:

Multiple addresses can be filled in, separated by ","

Specs

Device name:

1-SimCam

Server address:

TEST

for example:http(https://www.google.com/...

Enabled:

SUBMIT

After configuration, click the `test` button, and we will send an HTTP request to your server as follows:

Http Method:POST

parameters:

devicename: Revo

eventType: 1

eventTime: 1566519612

If the communication is normal, we will be prompted:

Tips:

success:200 OK

CONFIRM

2.2.6 CONFIGURE

Description: Configure event notification addresses for all cameras together.

2.3 Introduction of Developer Interface

 Camera List

 Developer

Client ID: whxx54408eb777ee446a

Secret key: *****

Please save Secret key. Next login will not be able to view it. If you forget Secret key, clicking on key will reset Secret key.

KEY

Description: Click `key` to generate `client_id` and `client_secret`. `client_id` and `client_secret` can be used to get `access_token`. `Access_token` can be used to call related API interface. Each account has a unique `client_id` and `client_secret`, please do not disclose them.

Prompt: `client_secret` can only be viewed after clicking the `key`. It will not be displayed after refreshing the interface or re-login. Please keep it safely.

Q: Why is my Secret key like `*****`

A: The Secret key is encrypted and cannot be decrypted. If you have forgotten the Secret key, please click `KEY` again to regenerate a Secret key for you, please keep it safely.

3 SimCam platform: API Introduction

This section introduces the Simcam open platform API interface. Users can manage this API to configure the camera. At present, only the API for configuring the camera privacy mode is available, and other APIs will be available in accordance with requirements.

3.1 Interface Description

3.1.1 Request Data

Post Request Message

```
POST /XXX/XXXXXXXX HTTP/1.1
Host: platform.simcam.cn
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer 077e604e-596c-44db-9a5d-41c3c867494f
```

Note: All interface request headers need to be placed in the Authorization property, the value is `token_type + access_token`, except for taking token's interface. There is a space between `token_type` and `access_token`.

3.1.2 Request Return

Return data: If the returned HTTP status code is 200, then back to the json data, otherwise, it means a request error. Please estimate it according to the interface return code.

3.2 Certification Management

3.2.1 Get Token

1. Function Description

The third-party platform authenticates to the Simcam open platform and requests an access token. The `access_token` is valid for `43200` seconds. During this valid period, it doesn't need to be required repeatedly during the validity period and can be reused.

2. How to Obtain `client_id` and `client_secret`: Login to the open platform through the SimHome App account (<https://platform.simcam.cn/>). For detailed operation steps, please refer to document 2.3.

3. Interface Definition

1. Interface address: https://platform.simcam.cn/oauth/token?grant_type=client_credentials

2. Request method: post

3. Interface parameters

1. **Interface address:**

`https://platform.simcam.cn/oauth/token`

2. **Request method:** POST

3. **Content-Type** : application/x-www-form-urlencoded

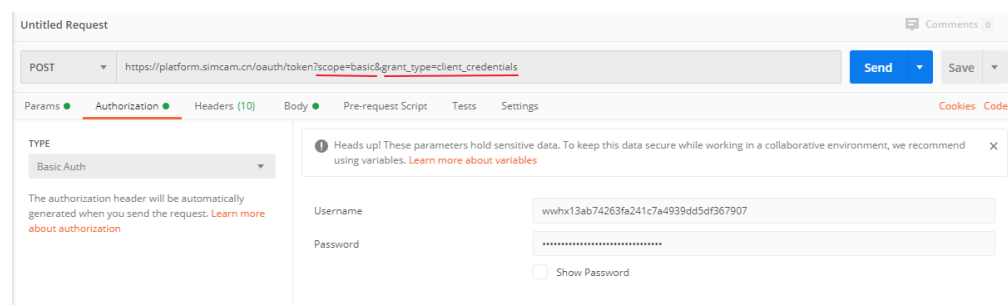
4. **Interface parameters**

~~Note: `client_id` and `client_secret` are transmitted in Basic Auth encryption with~~

support Basic Auth and Form

postman as an example:

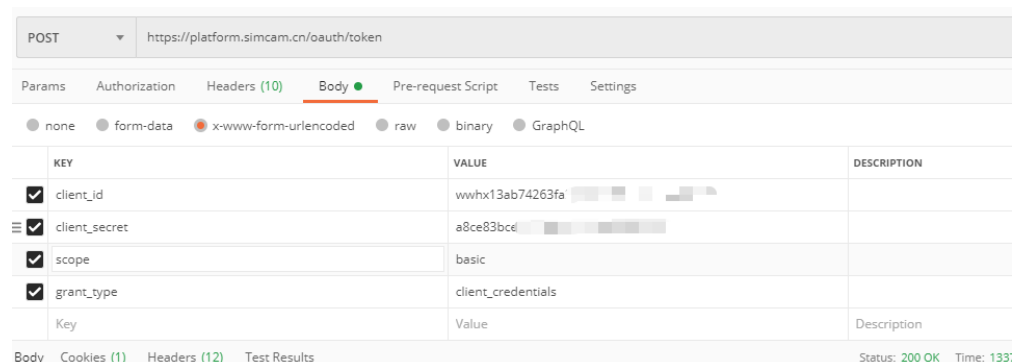
Basic Auth:



The image shows the Postman 'Basic Auth' configuration window. The URL is set to `https://platform.simcam.cn/oauth/token?scope=basic&grant_type=client_credentials`. The Username field contains `wwhx13ab74263fa241c7a4939dd5df367907` and the Password field is masked with asterisks. A warning message at the top states: 'Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about variables'.

```
POST /oauth/token?scope=basic&grant_type=client_credentials
HTTP/1.1
Host: platform.simcam.cn
Authorization: Basic
d3doeDEzYWI3NDI2M2ZhMjQxYzdhNDkzOWRkNWRmMzY3OTA3OmE4Y2U4M2JjZWZlMTQy
NTg4YWI4YmZmNWZhMjAxMTCx
Cookie: JSESSIONID=93AC1CD1FE20EBA91DEF581B32478F2F
```

Form:



The image shows the Postman 'Form' configuration window. The URL is `https://platform.simcam.cn/oauth/token`. The 'Body' tab is selected, and the 'x-www-form-urlencoded' radio button is chosen. The form parameters are as follows:

KEY	VALUE	DESCRIPTION
☒ client_id	wwhx13ab74263fa	
☒ client_secret	a8ce83bcd	
☒ scope	basic	
☒ grant_type	client_credentials	
Key	Value	Description

At the bottom, the status is '200 OK' and the time is '133'.


```
client_id=wwhx13ab74263fa241c7a4939d22222&client_secret=a8ce83bcef  
e142588ab8bf222www&scope=basic&grant_type=client_credentials
```

Attribute Name	Attribute Description	Type	Length	Required
client_id	get <code>Client ID</code> on simcam_platform	String	/	YES
client_secret	get <code>Secret key</code> on simcam_platform	String	/	YES
scope	Fixed value: "basic"	String	/	YES
grant_type	Fixed value: "client_credentials"	String	/	YES

Attribute Name	Attribute Description	Type	Length	Required
access_token	Access Token	String	/	YES
token_type	Token Type	String	/	YES
expires_in	token effective time(seconds)	Long	/	YES
scope	Fixed value: "basic"	String	/	YES

1. Request address: <https://platform.simcam.cn/api/getDeviceList>
2. Request method: POST
3. Request message

```
POST /api/getDeviceList HTTP/1.1
Host: platform.simcam.cn:8081
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer ca250c38-350f-478b-8807-6c2fb8ce0257
```

4. Output parameters (json)

Operate successfully and return:

Attribute Name	Attribute Description	Type	Length	Required
is_success	1:success 0:fail	int	2	YES
cameras	see the list below	list	/	YES

5. Cameras attribute introduction:

Attribute Name	Attribute Description	Type	Length	Required
device_id	Device's id	String	/	YES
device_name	User-defined device name	String	/	YES
device_type	Device Type	int	/	YES

Device type

Value	Device Model
1	SimCam 1S
2	SimCam Doorbell
3	SimCam Baby
4	SimCam Alloy 1S
11	SimCam 1
14	SimCam Alloy 1

6. JSON example

```
{
  "cameras": [
    {
      "device_id": "203233dsdD68F9",
      "device_name": "SimCam1",
      "device_type": 11
    },
    {
      "device_id": "0x8dsffsdee1e97e3",
```

```

        "device_name": "SimCam1S",
        "device_type": 1
    },
    ],
    "is_success": 1
}

```

3.4 Camera Configuration Management

3.4.1 Setting the Privacy Mode of The Camera

1. Function Description

Setting the privacy mode of camera(just SimCam, SimCam 1S, SimCam Alloy, SimCam Alloy 1S)

2. Definition of Interface

1. Request address: <https://platform.simcam.cn/api/deviceControl>
2. Request method: POST
3. Content-Type: application/x-www-form-urlencoded
4. Request parameter

Attribute Name	Attribute Description	Type	Length	Required
device_id	Device's Id	String	30	YES
mode	Mode selection, see table below	String	20	YES
mode_switch	Switch (1:On 0:Off)	int	2	YES

1. Mode Parameter Introduction

At present, we only support privacy mode switch, and we will update it into the file if a new function is added.

Parameter Values	Parameter Description
YSMS	Privacy Mode

3. Http Request Message

```

POST /api/deviceControl HTTP/1.1
Host: platform.simcam.cn
Authorization: Bearer 599ac9d9-be07-4672-81de-1dead5058c13
Content-Type: application/x-www-form-urlencoded
Cookie: JSESSIONID=1E4823047CFDDB4C6C581A13E424CDE9

device_id=2032333D68F9&mode=YSMS&mode_switch=0

```

4. Output parameters (json)

Operate successfully and return:

Attribute Name	Attribute Description	Type	Length	Required
is_success	1(success)	int	2	YES
data	success	string	/	YES

操作失败返回参数 (json)

Attribute Name	Attribute Description	Type	Length	Required
is_success	0(fail)	int	2	YES
data	Detailed Error Information	String	/	YES

5. Json example

```
{  
  "data": "success",  
  "is_success": 1  
}
```