

## Overview

### Introduction of SimCam Open Platform

- Introduction of Login Interface
- Introduction of Camera Configuration Interface
  - Camera List Configuration
  - Device name
  - Service address
  - Enabled
  - Set
  - CONFIGURE
- Introduction of Developer Interface

### SimCam platform: API Introduction

- Interface Description
  - Request Data
  - Request Return
- Certification Management
  - Get Token
- Equipment Management
  - Get Device List
- Camera Configuration Management
  - Setting the Privacy Mode of The Camera

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

# 1 Overview

## The Role of This Platform:

This platform is available to users who need to do advanced development on the basis of SimCam cameras. On the SimCam open platform, users can configure the address of their own server, and the related events notifications of the SimCam 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 camera.

**Targeted Crowd:** Users registered in the SimCam App.

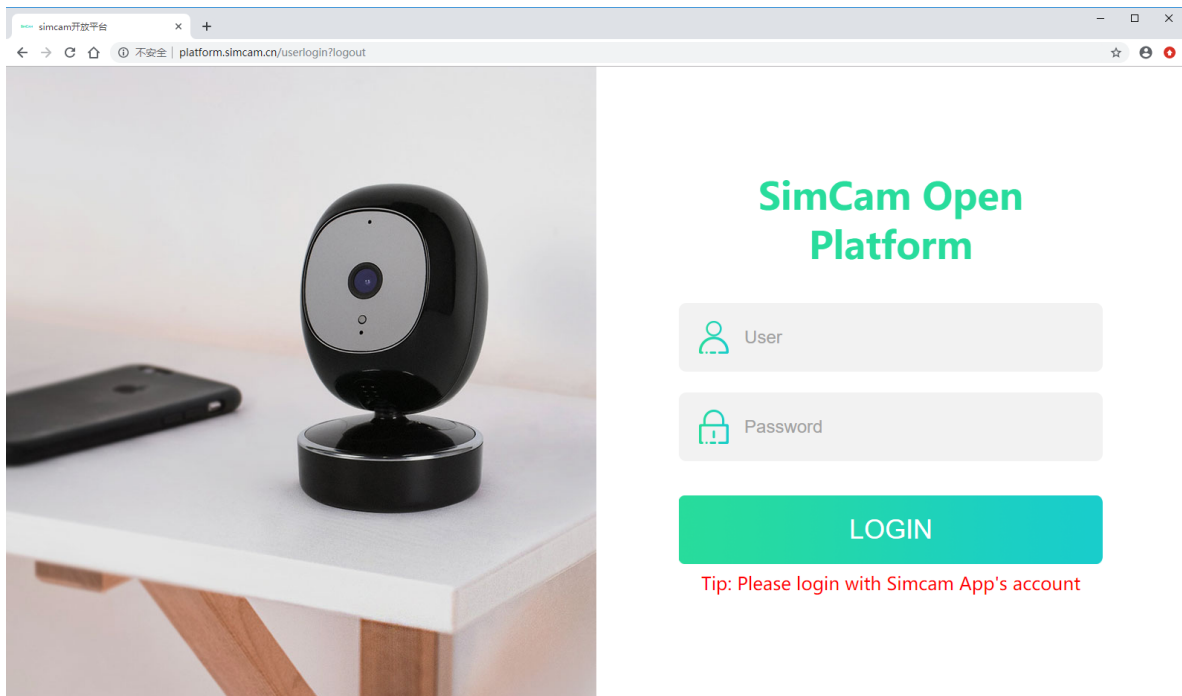
This document mainly introduces functions of the SimCam open platform and the API quick start guide. If you have any further questions, please contact us at `support@simcam.ai` or `sdk@simcam.ai`.

# 2 Introduction of SimCam Open Platform

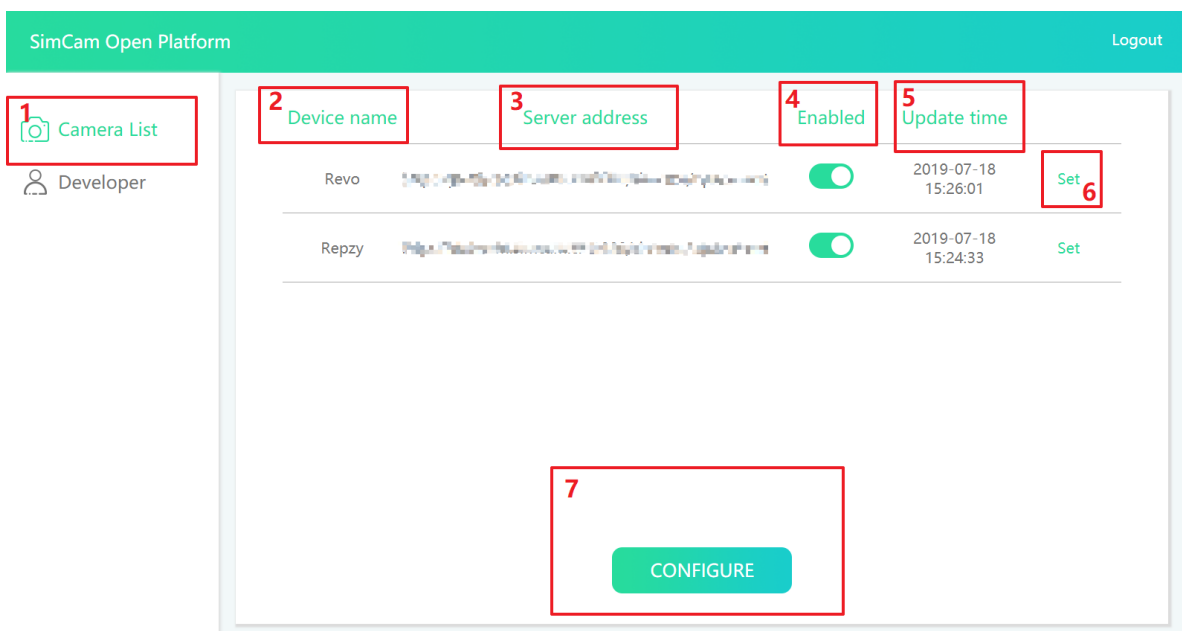
## 2.1 Introduction of Login Interface

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

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



## 2.2 Introduction of Camera Configuration Interface



## 2.2.1 Camera List Configuration

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

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

**A:** Pair a Simcam camera to the SimCam App.

## 2.2.2 Device name

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

**Q:** How to change the camera's name?

**A:** Change camera's name on Simcam 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://192.168.168.1:8080/simcam/receiveEvent>

### Feedback Types of Events Notifications Supported by The Open Platform

- Person Detected
- Object Monitoring
- Face Recognized

### 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
devicename	Device Name	String	/	YES
eventType	EventType	Int	/	YES
eventTime	EventTime	Time Stamp	10	YES
payload	payload	String	/	NO

- **Introduction of eventType**

Value	Type	Description
1	Int	Person Detected
2	Int	Object Monitoring
3	Int	Face Recognized

- **Introduction of payload**

- When the `eventType` type is 1 or 2 , there is no `payload` parameter.
- 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` .

Specs ✕

Device name: 1-SimCam

Server address:  TEST

for example:[http\(https\)://www.google.com/...](http://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

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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

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#### 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

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### 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 `43199` 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 Simcam 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](https://platform.simcam.cn/oauth/token?grant_type=client_credentials)

2. Request method: post

3. Interface parameters

1. Interface address:

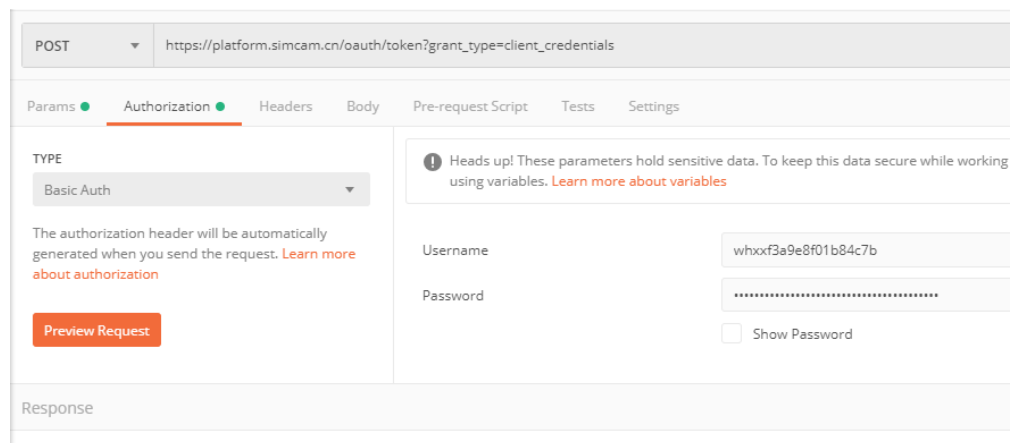
[https://platform.simcam.cn/oauth/token?grant\\_type=client\\_credentials](https://platform.simcam.cn/oauth/token?grant_type=client_credentials)

2. Request method: POST

3. Interface parameters

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

postman as an example:



Attribute Name	Attribute Description	Type	Length	Required
client_id	Client ID (Match to the last picture 'Username')	String	128	YES
client_secret	Client Secret (Match to the last picture 'Password')	String	256	YES

### 2. HTTP request message

```
POST /oauth/token?grant_type=client_credentials HTTP/1.1
Host: platform.simcam.cn
Authorization: Basic
d2h4eGYzYTllOGYwMWI4YTRjN2I6YTU0OWRlZTMzMzBhNGEzY2FmYjkyMTU0ODFhYmM0NWM
=
User-Agent: PostmanRuntime/7.15.2
```

### 3. Output parameters (json)

Attribute Name	Attribute Description	Type	Length	Required
access_token	Access Token	String	36	YES
token_type	Token Type	String	32	YES
expires_in	Expires (in)	Long	10	YES
scope	Scope	String	10	YES

Note: Please obtain the `access_token` from the background and don't reveal.

## 3.3 Equipment Management

### 3.3.1 Get Device List

#### 1. Function Description

Get all equipment information under user's account.

#### 2. Definition of the Interface

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
cameras	see the list below	list	/	YES

#### 1. 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



## 3.4 Camera Configuration Management

### 3.4.1 Setting the Privacy Mode of The Camera

#### 1. Function Description

Setting the privacy mode of camera

#### 2. Definition of Interface

1. Request address: <https://platform.simcam.cn/api/deviceControl>

2. Request method: POST

3. 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:8081
Content-Type: application/x-www-form-urlencoded
Authorization: Bearer 94816501-fbc7-4a36-9b41-622bc0a786ed
```

#### 4. Output parameters (json)

Operate successfully and return:

Attribute Name	Attribute Description	Type	Length	Required
type	success	String	10	YES

```
Pretty Raw Preview JSON 
1 {
2   "type": "success"
3 }
```

操作失败返回参数 (json)

Attribute Name	Attribute Description	Type	Length	Required
type	error	String	10	YES
data	Detailed Error Information	String	/	YES