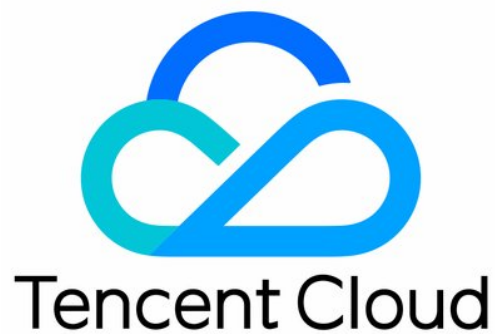


Tencent Push Notification Service

API Documentation

Product Documentation



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API Documentation

Overview

Last updated : 2024-01-17 14:23:45

RESTful APIs are HTTP management APIs that provide the application backend with a management entry at the backend for you to remotely call the push service.

RESTful APIs support both HTTP and HTTPS protocols. For the sake of security, the HTTPS protocol is recommended.

Prerequisites

Before you call a RESTful API, make sure that you have created the application in the Tencent Push Notification Service Console. For more information, please see [Creating Products and Applications](#).

API Overview

Last updated : 2024-01-17 14:23:45

Push APIs

API Name	Description
v3/push/app	Pushes notification and in-app messages
v3/push/package/upload	Uploads number packages Uploads token packages
v3/push/plan/add_plan_push	Creates push plans

Tag APIs

API Name	Description
v3/device/tag	Binds and unbinds tags
v3/device/tag/delete_all_device	Deletes all devices under a tag

Account APIs

API Name	Description
v3/device/account/batchoperate	Binds and unbinds accounts
v3/device/account/query	Queries account and device binding

Statistics APIs

API Name	Description
v3/statistics/get_push_stat_overview	Pushes daily aggregated statistics
v3/statistics/get_device_stat_overview	Queries device statistics

v3/statistics/get_push_record	Queries all push information in a specific period
v3/statistics/get_push_record	Queries the push information of a single task
v3/statistics/get_push_task_stat_channel	Queries the push statistics of a single task
v3/statistics/get_push_group_stat	Queries the aggregated push statistics of multiple tasks

User Attribute APIs

API Name	Description
v3/device/set_custom_attribute	User attribute API , used to create, delete, update, and query custom attributes at the token level

Call Method

Signature Authentication (Recommended)

Last updated : 2024-01-17 14:24:51

Overview

This document describes the signature authentication methods of Tencent Push Notification Service. The HMAC-SHA256 algorithm is used to generate signing information according to `SecretKey`. The authentication is performed by verifying the signature, which ensures higher security and is recommended.

Parameter description

Parameter	Description
AccessId	Application ID assigned by the Tencent Push Notification Service backend, which can be obtained in Configuration Management > Basic Configuration in the Tencent Push Notification Service console
SecretKey	<code>SecretKey</code> assigned by the Tencent Push Notification Service backend, which corresponds to <code>AccessId</code> and can be obtained in Configuration Management > Basic Configuration in the Tencent Push Notification Service console
Sign	API signature
TimeStamp	Request timestamp in seconds

Signature Generation Method

1. Concatenate the request timestamp + `AccessId` + request body to get the original string to sign:

```
String to sign = ${TimeStamp} + ${AccessId}} + ${request body}
```

2. Use `SecretKey` as the key to sign the original string to generate a signature:

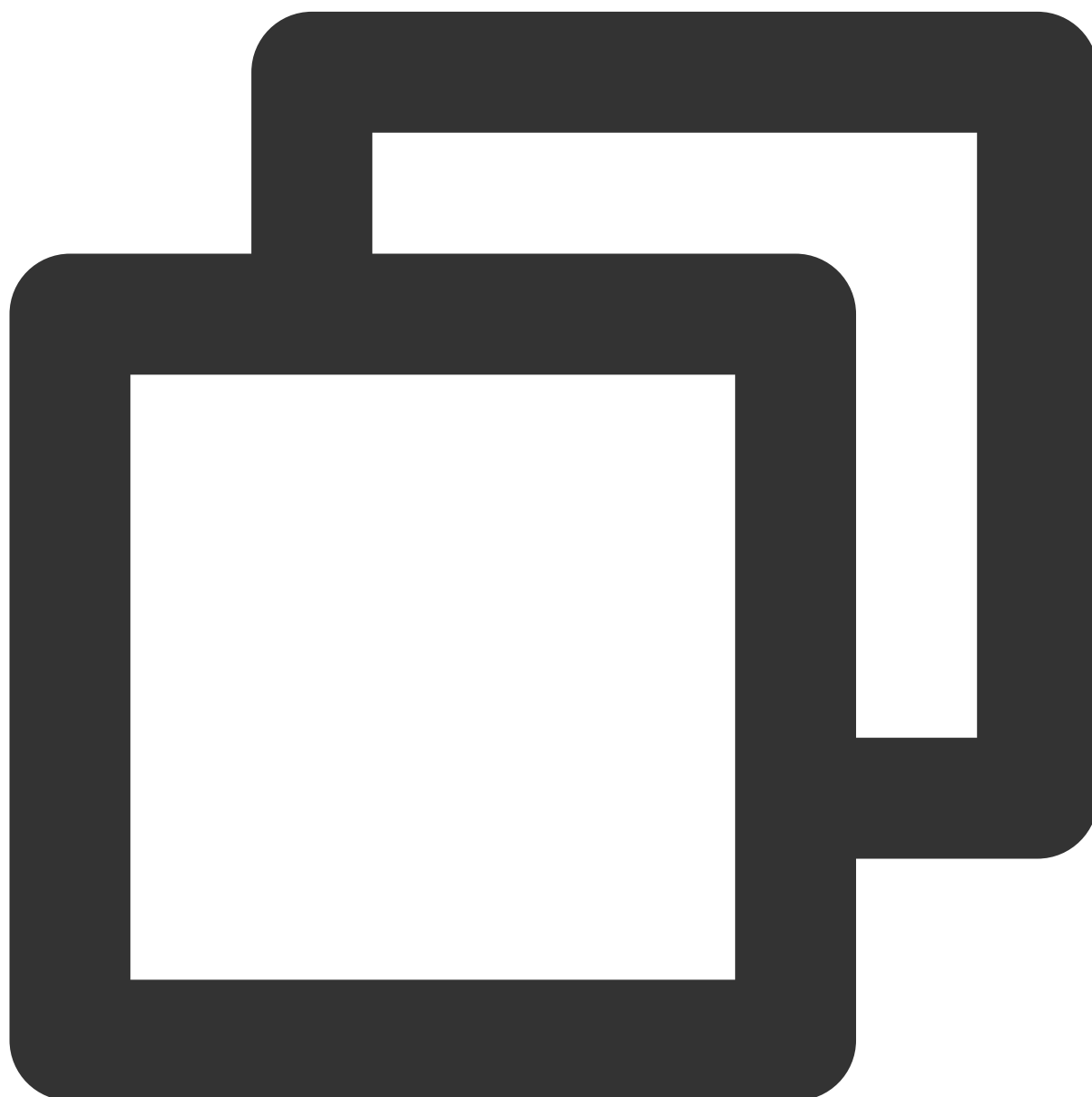
```
Sign = Base64(HMAC_SHA256(SecretKey, string to sign))
```

HTTP Request Description

In addition to the general headers, the HTTP request also needs to carry the current request timestamp, `AccessId`, and `Sign` information. The specific parameters are as follows:

Parameter in Header	Description	Required
Sign	Request signature	Yes
AccessId	Application ID	Yes
TimeStamp	Request timestamp	Yes

The specific HTTP request message is as follows:



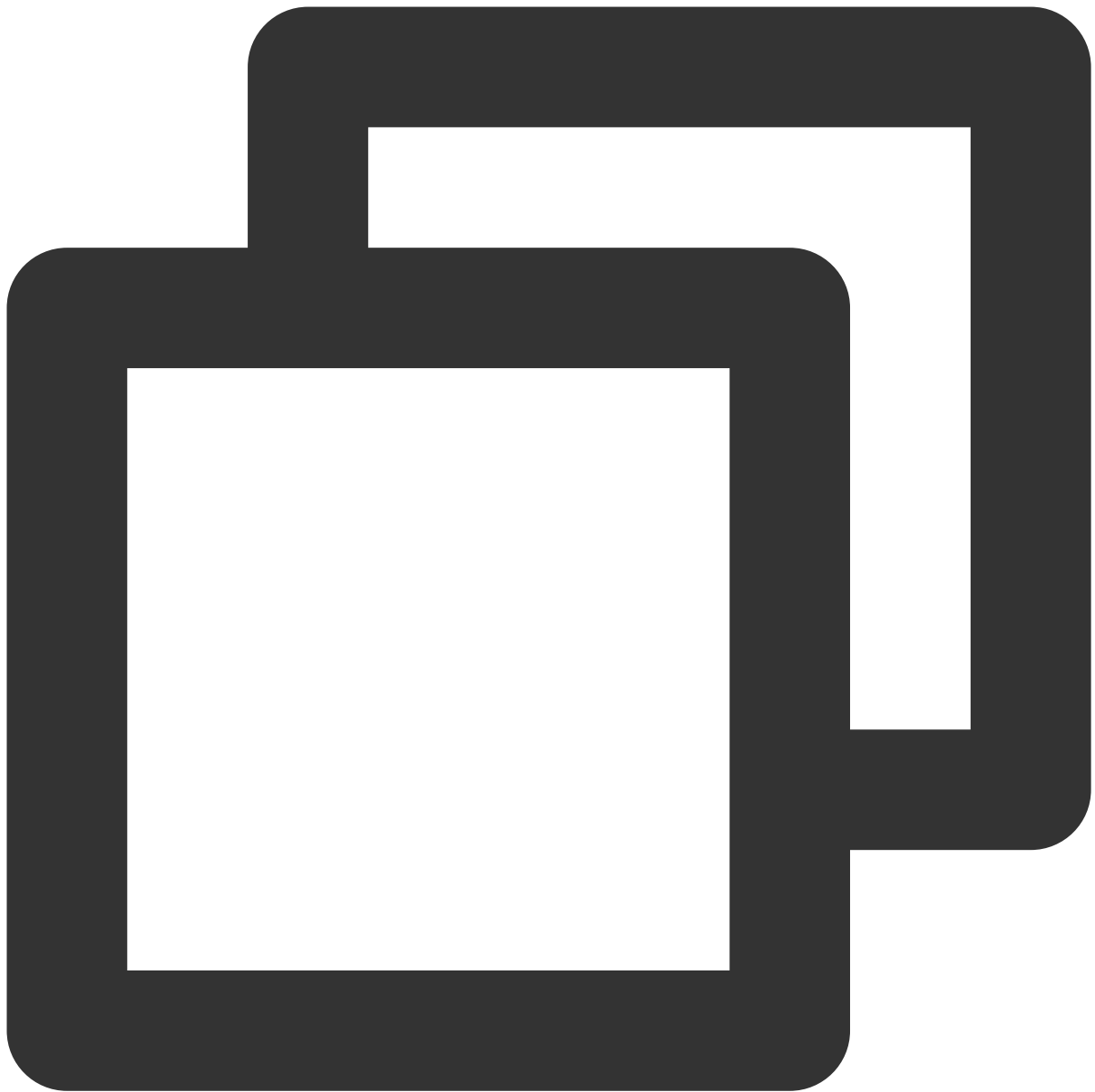
```
POST /v3/push/app HTTP/1.1
```



```
Host: api.tpsns.tencent.com
Content-Type: application/json
AccessId: 1500001048
TimeStamp: 1565314789
Sign: Y2QyMDc3NDY4MmJmNzhiZmRiNDNlMTdkMWQ1ZDU2YjNlNWl3ODlhMTY3MGZjMTUyN2VmNTRjNjVkM
{"audience_type": "account", "message": {"title": "test title", "content": "test cont
```

Signature Generation Sample

1. Generate the string to sign as follows:

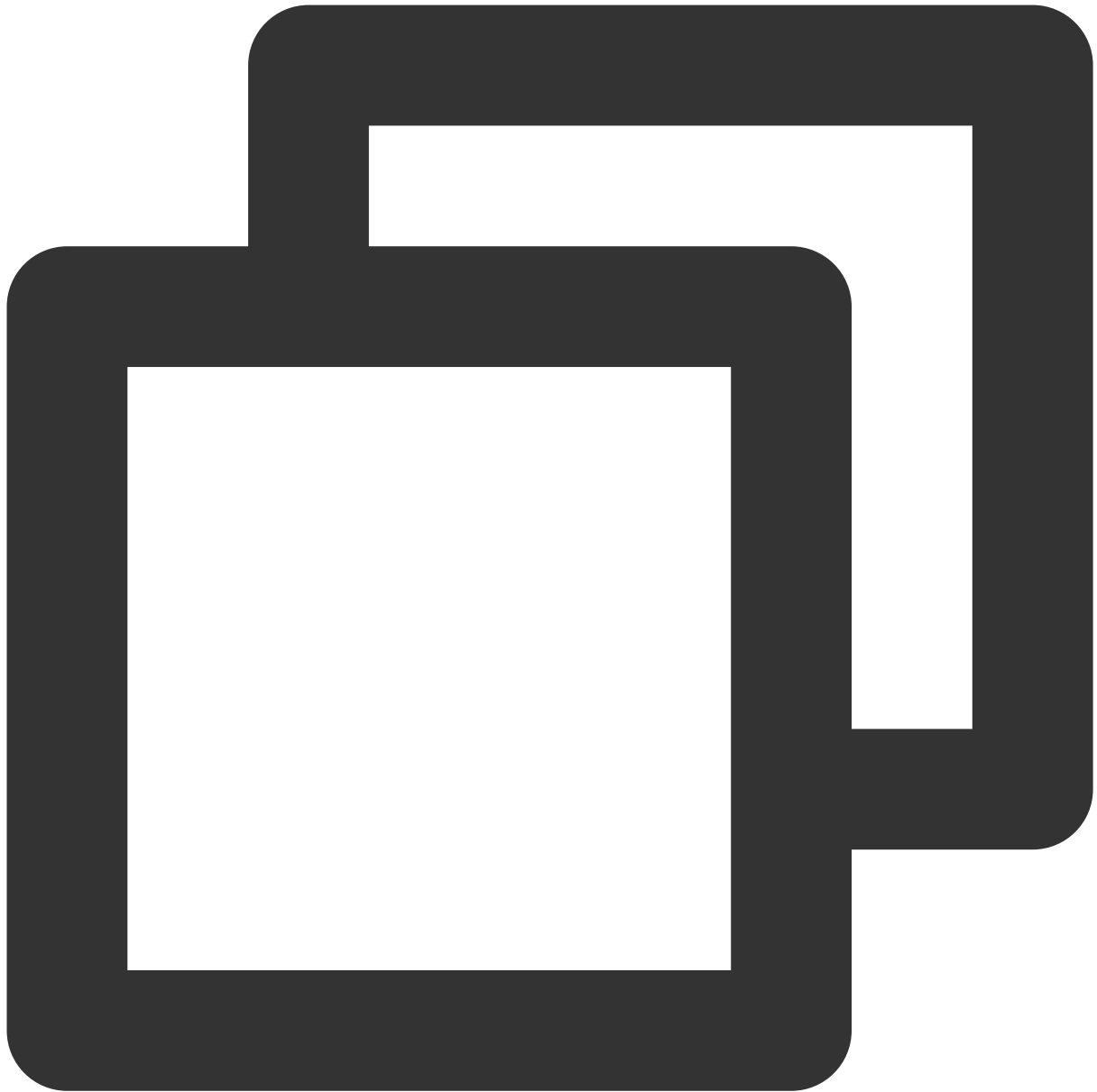


```
String to encrypt = 15653147891500001048{"audience_type": "account", "message": {"ti
```

Note:

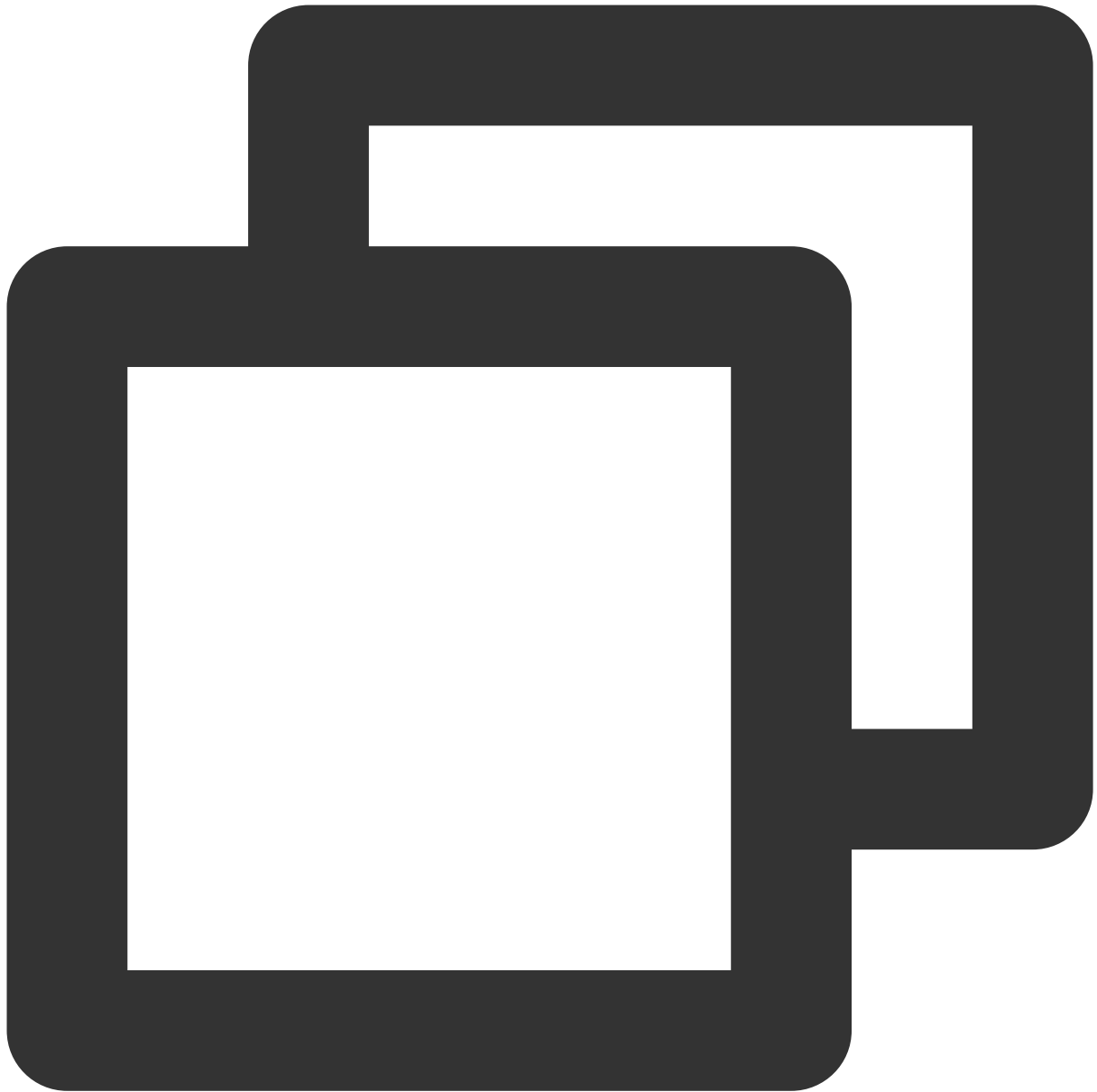
The `${request body}` in the string to sign must be exactly the same as the data in the message body, including spaces and encoding.

2. Generate a hexadecimal hash based on the key through the HMAC-SHA256 algorithm, i.e., `secretKey`
`=1452fcebae9f3115ba794fb0fff2fd73` in the sample.



```
hashcode = hmac-sha256(SecretKey, string to sign)  
Result: hashcode="09f07d2a518a8814e369dcd9534f10b8a29d128531a19adaa28cb247605c1e84"
```

3. Base64-encode the hashcode to get the following signature string:



```
Sign=Base64(hashcode)
```

```
Sign="MDlmMDdkMmE1MThhODgxNGUzNjlkY2Q5NTM0ZjEwYjhhMjlkMTI4NTMxYTE5YWRhYTl4Y2IyNDc2M
```

Signature Code Samples in Various Languages

Python2

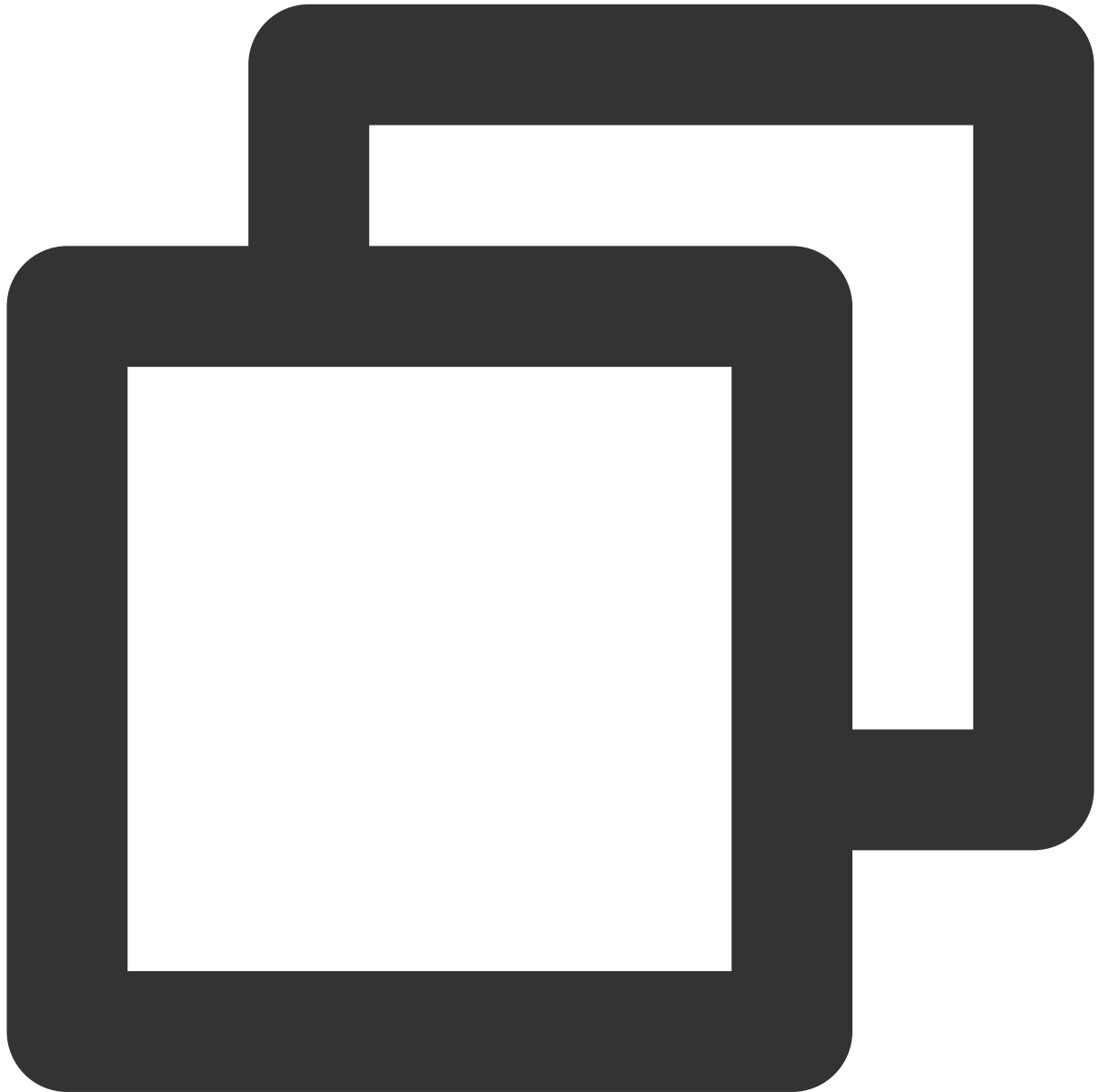
Python3

Java

Golang

C#

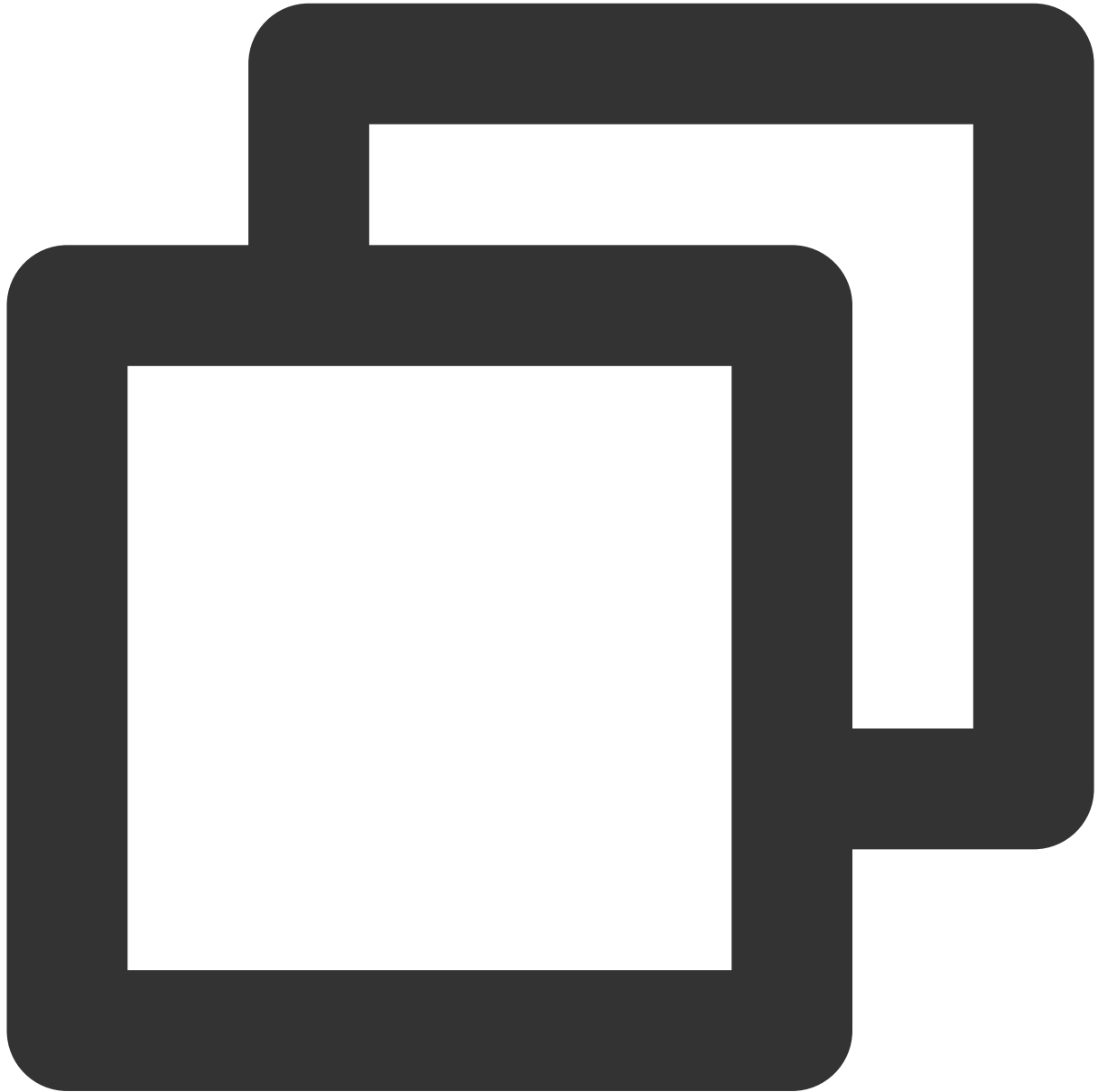
PHP



```
#!/usr/bin/env python
import hmac
import base64
from hashlib import sha256

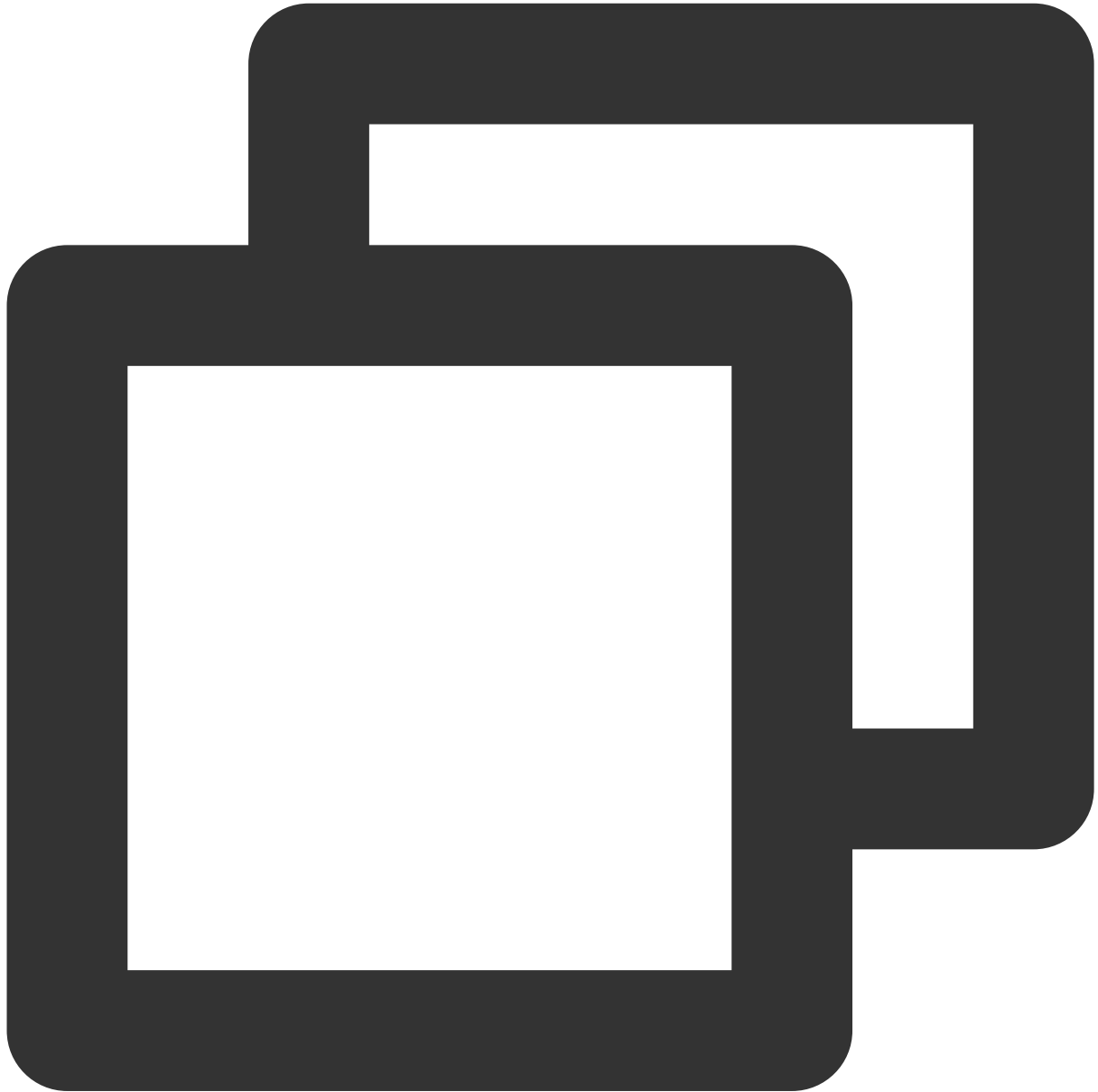
s = '15653147891500001048{"audience_type": "account","message": {"title": "test tit
```

```
key = '1452fcebae9f3115ba794fb0fff2fd73'  
hashcode = hmac.new(key, s, digestmod=sha256).hexdigest()  
print base64.b64encode(hashcode)
```



```
import hmac  
import base64  
from hashlib import sha256  
  
s = '15653147891500001048{"audience_type": "account","message": {"title": "test tit  
key = '1452fcebae9f3115ba794fb0fff2fd73'
```

```
hashcode = hmac.new(bytes(key, "utf-8"), bytes(s, "utf-8"),  
                    digestmod=sha256).hexdigest()  
print(base64.b64encode(bytes(hashcode, "utf-8")))
```



```
package com.tencent.xg;  
  
import java.io.UnsupportedEncodingException;  
import java.security.InvalidKeyException;  
import java.security.NoSuchAlgorithmException;  
import javax.crypto.Mac;
```

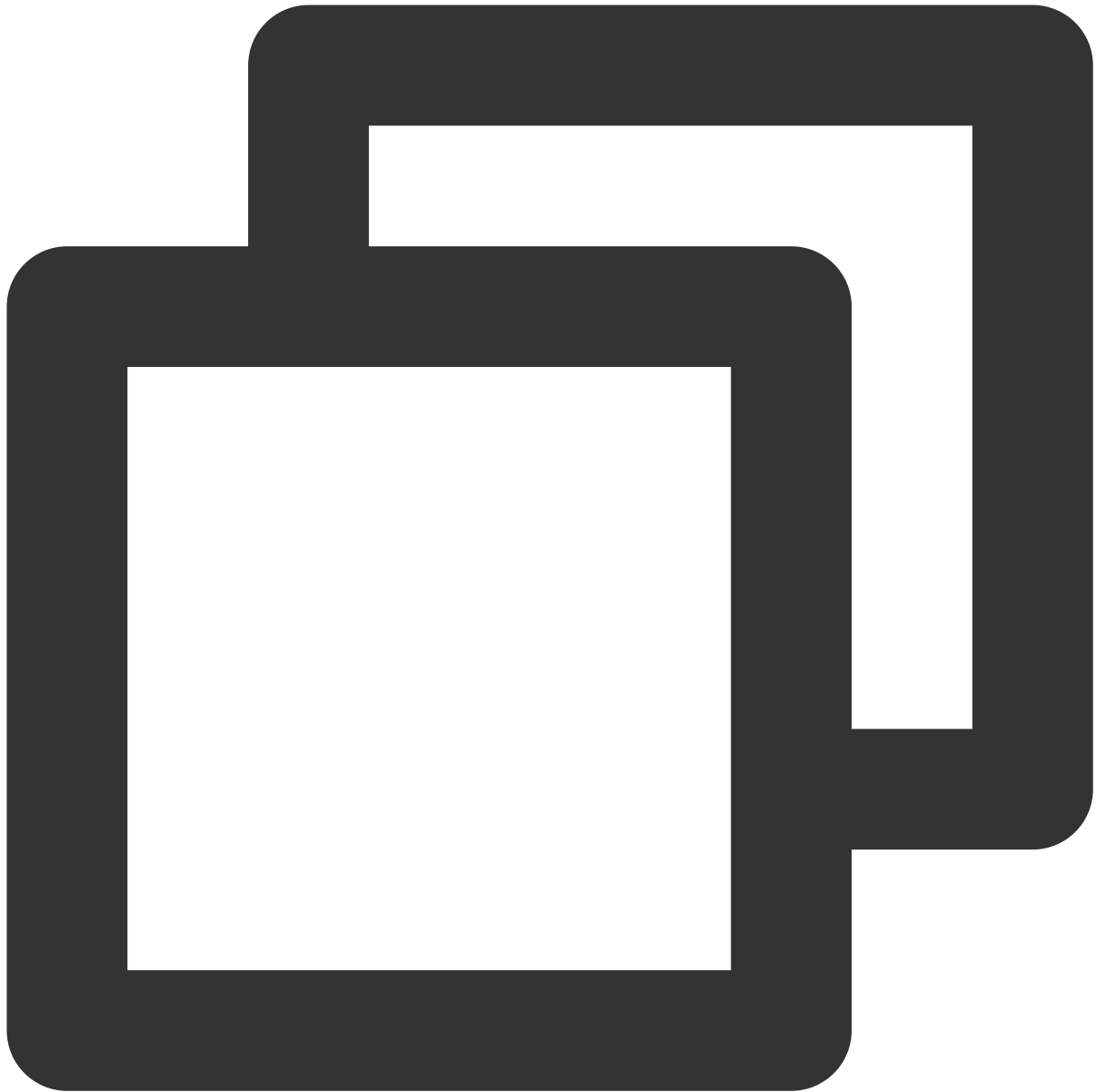
```
import javax.crypto.spec.SecretKeySpec;
import org.apache.commons.codec.binary.Base64;
import org.apache.commons.codec.binary.Hex;

public class SignTest {
    public static void main(String[] args) {
        try {
            String stringToSign = "15653147891500001048{\\\\"audience_type\\": \\\"acc
            String appSecret = "1452fceb9f3115ba794fb0fff2fd73";

            Mac mac;
            mac = Mac.getInstance("HmacSHA256");
            mac.init(new SecretKeySpec(appSecret.getBytes("UTF-8"), "HmacSHA256"));
            byte[] signatureBytes = mac.doFinal(stringToSign.getBytes("UTF-8"));

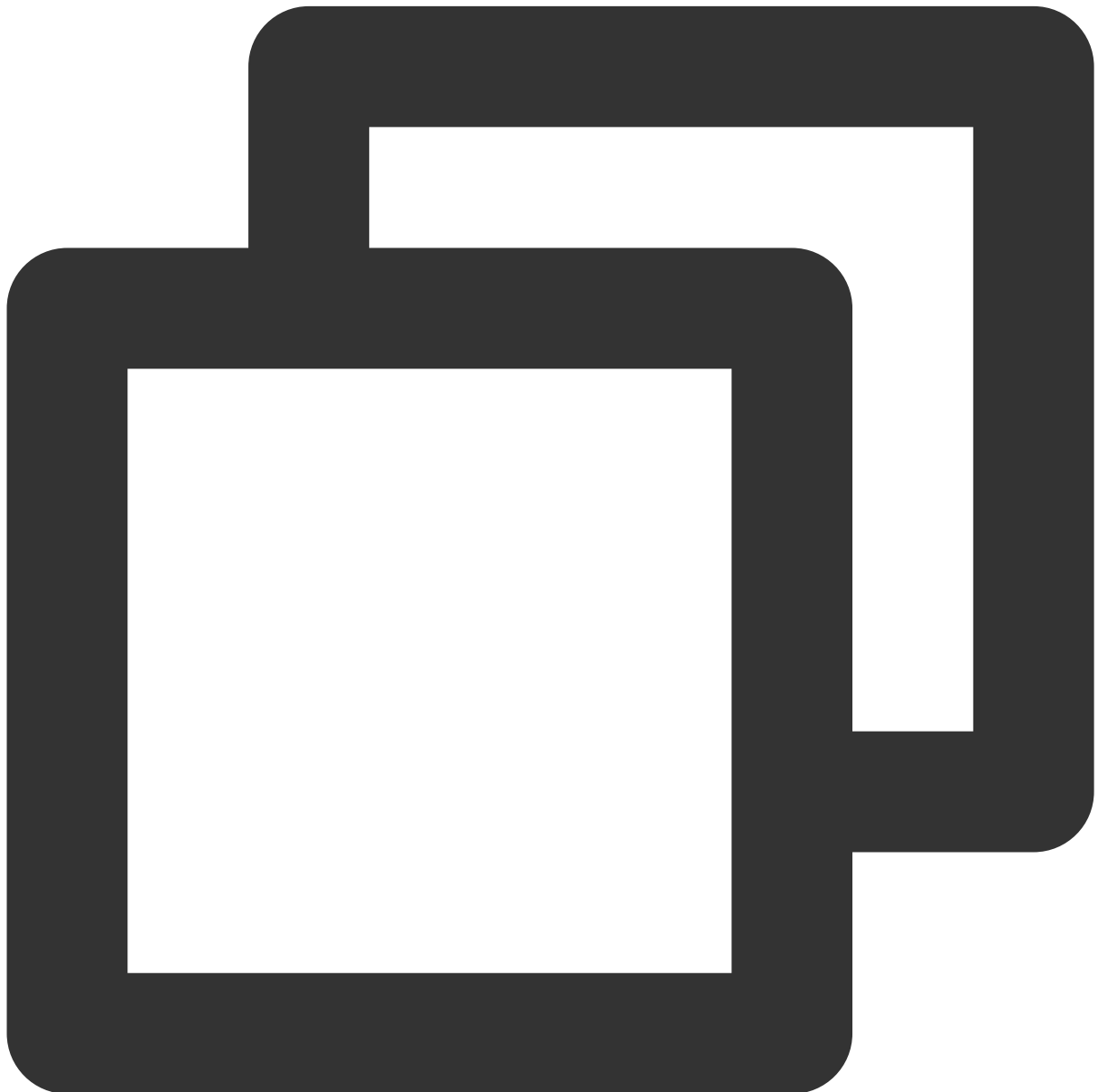
            String hexStr = Hex.encodeHexString(signatureBytes);
            String signature = Base64.encodeBase64String(hexStr.getBytes());

            System.out.println(signature);
        } catch (NoSuchAlgorithmException | InvalidKeyException | UnsupportedEncodingException) {
            e.printStackTrace();
        }
    }
}
```

```
import (  
    "crypto/hmac"  
    "crypto/sha256"  
    "encoding/base64"  
    "encoding/hex"  
    "testing"  
)  
  
func TestSign(t *testing.T) {  
    requestBody := "15653147891500001048{\\\\"audience_type\\": \\\\"account\\",\\\\"messa  
    secretKey := "1452fcebae9f3115ba794fb0fff2fd73"
```

```
h := hmac.New(sha256.New, []byte(secretKey))
h.Write([]byte(requestBody))
sha := hex.EncodeToString(h.Sum(nil))
sign := base64.StdEncoding.EncodeToString([]byte(sha))
println(sign)
}
```



```
using System;
using System.Security.Cryptography;
```

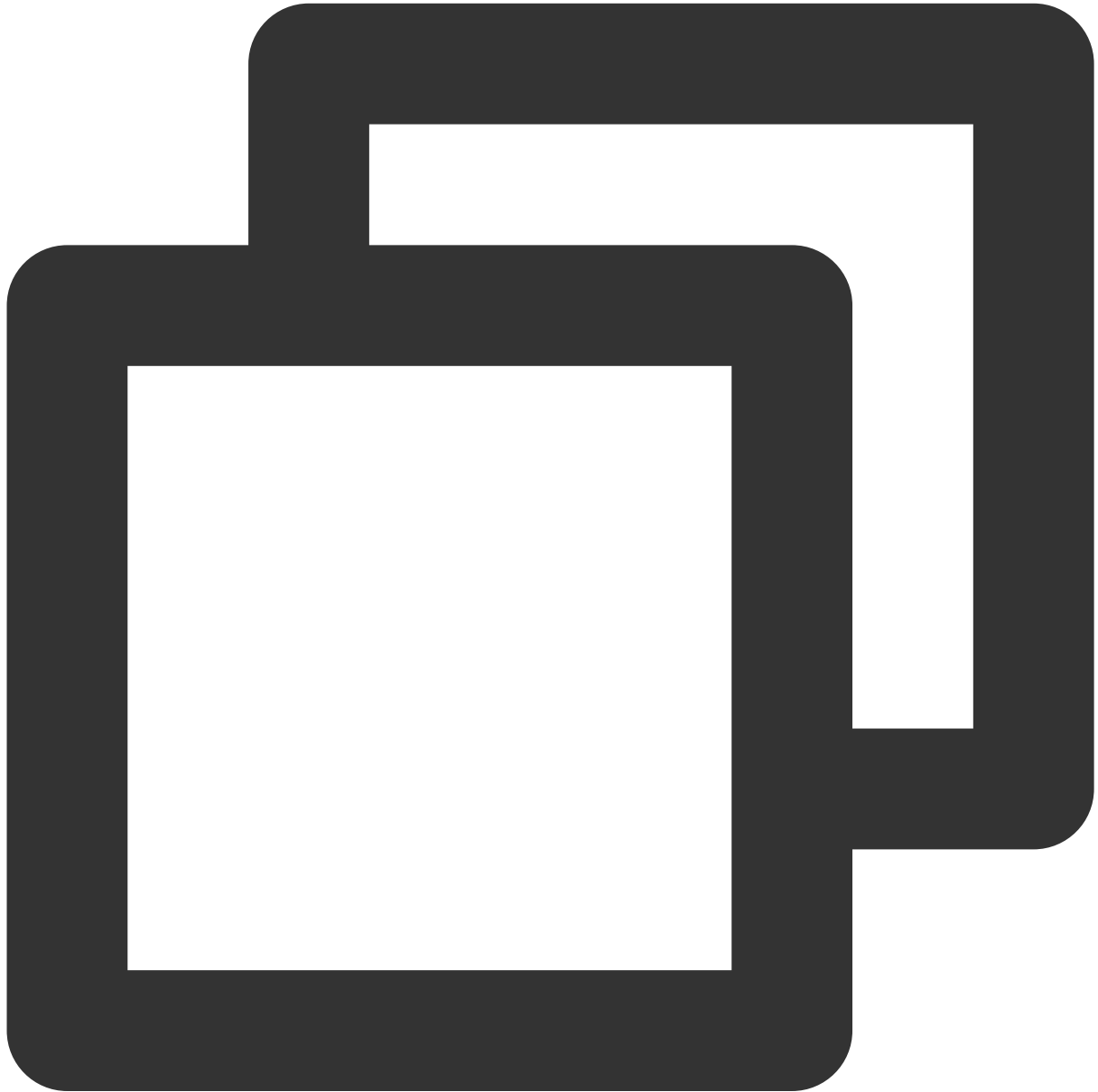
```
using System.Text;
namespace tpns_server_sdk_cs
{
    class GenSign {

        //Main Method
        static public void Main(String[] args)
        {
            string reqBody =
                "{\\"audience_type\\": \\"account\\",\\"message\\": {\\"title\\": \\"
            string genSign = GenSign.genSign("1621307510", "1500004469", reqBody, "
            Console.WriteLine(genSign);
        }
        public static string HmacSHA256(string key, string data)
        {
            string hash;
            Byte[] code = System.Text.Encoding.UTF8.GetBytes(key);
            using (HMACSHA256 hmac = new HMACSHA256(code))
            {
                Byte[] d = System.Text.Encoding.UTF8.GetBytes(data);
                //Byte[] hmBytes = hmac.ComputeHash(encoder.GetBytes(data));
                Byte[] hmBytes = hmac.ComputeHash(d);
                hash = ToHexString(hmBytes);
            }
            return hash;
        }
        public static string ToHexString(byte[] array)
        {
            StringBuilder hex = new StringBuilder(array.Length * 2);
            foreach (byte b in array)
            {
                hex.AppendFormat("{0:x2}", b);
            }
            return hex.ToString();
        }

        public static string genSign(string timeStampStr, string accessId, string r
        {
            string data = timeStampStr + accessId + requestBody;
            string hash = HmacSHA256(keySecret, data);
            string sign = Base64Encode(hash);
            Console.WriteLine("timeStampStr: " + timeStampStr + " accessId:" + acc
            return sign;
        }

        public static string Base64Encode(string plainText) {
            var plainTextBytes = System.Text.Encoding.UTF8.GetBytes(plainText);
```

```
        return System.Convert.ToBase64String(plainTextBytes);  
    }  
}  
}
```



```
````  
<?php
$accessId = "1500001048";
$secretKey = "1452fceb9f3115ba794fb0fff2fd73";
$timeStamp = "1565314789";
```

```
$requestBody = "{\\"audience_type\\": \\"account\\",\\"message\\": {\\"title\\": \\"$hashData = "{$timeStamp}{$accessId}{$requestBody}";
echo "reqBody: " . $hashData . "\\n";
//Get the SHA256 and hex results
$hashRes = hash_hmac("sha256", $hashData, $secretKey, false);
//Base64-encode the results
$sign = base64_encode($hashRes);
echo $sign . "\\n";
?>
\\`
```

# Basic Auth Authentication

Last updated : 2024-01-17 14:24:51

This document describes the Basic Auth authentication methods of Tencent Push Notification Service.

For Basic Auth authentication with `AccessId` and `SecretKey`, the key is easy to be compromised and the security is not high. You are recommended to use [signature authentication](#).

## Obtaining a Key

1. Log in to the [Tencent Push Notification Service console](#), and select **Configuration Management > Basic Configuration** in the left sidebar.
2. Get `Access ID` and `SECRET KEY` from the Application Information column.

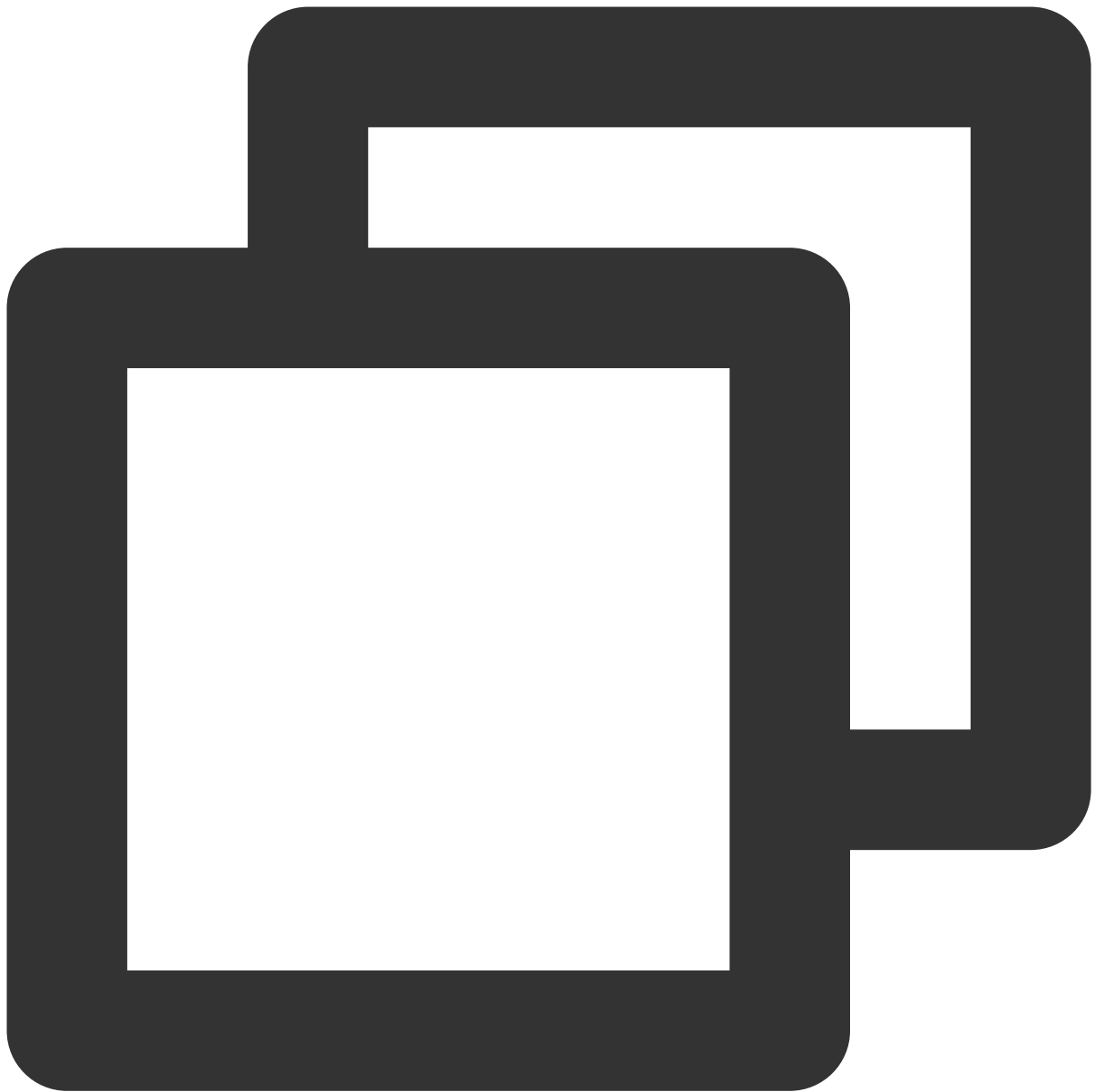
## Generating a Signature

### 1. Generate a Request String

This step generates a request string.

The generation algorithm is: `base64 (Access ID : SECRETKEY)`, which adds a colon after `Access ID` followed by `SECRETKEY` to form a string and then perform `base64` encoding on the string.

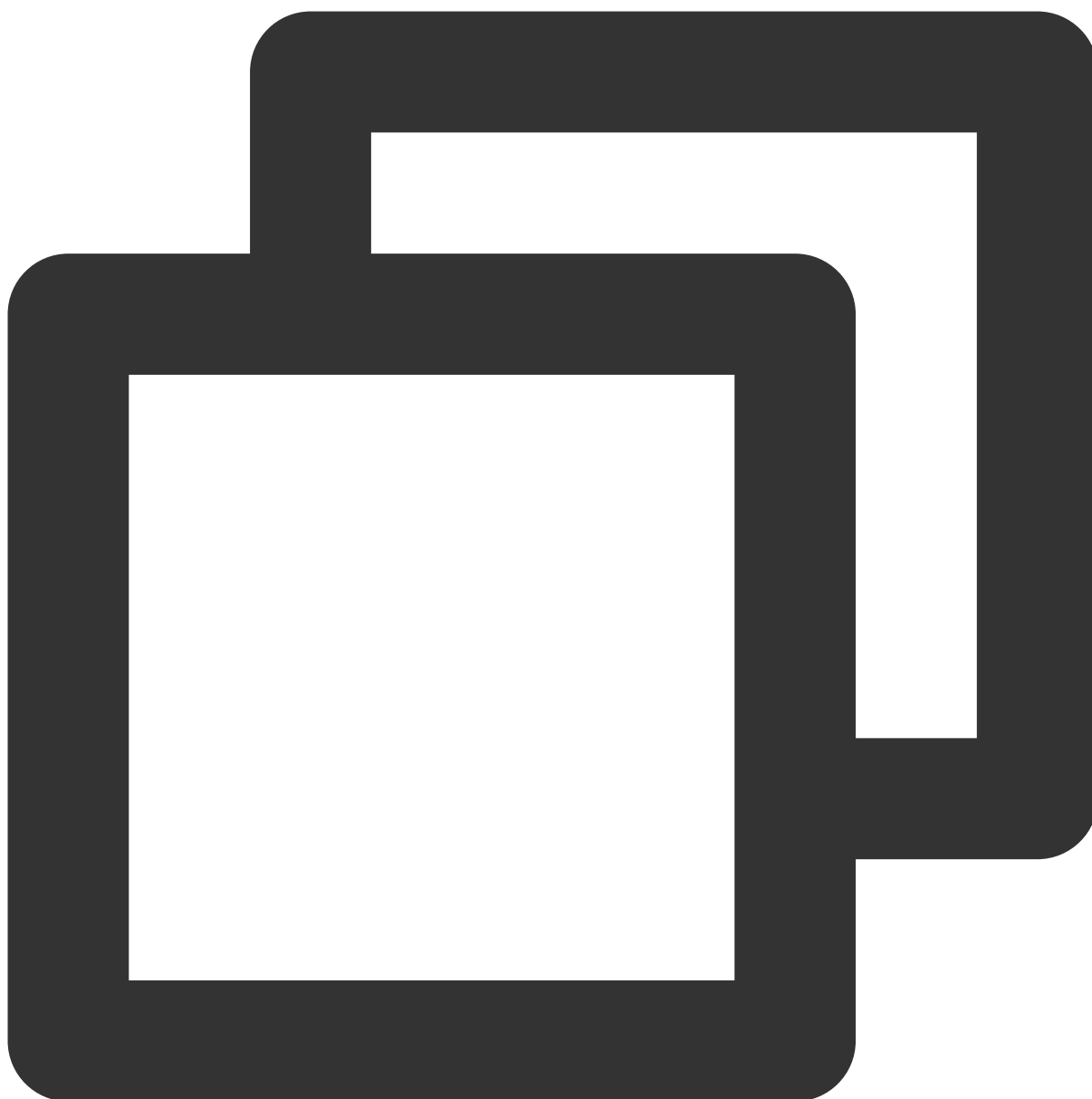
Sample:



```
base64(150000****:cf43dac624820*****c1fe5fc993)
```

## 2. Perform Basic Auth verification and authentication

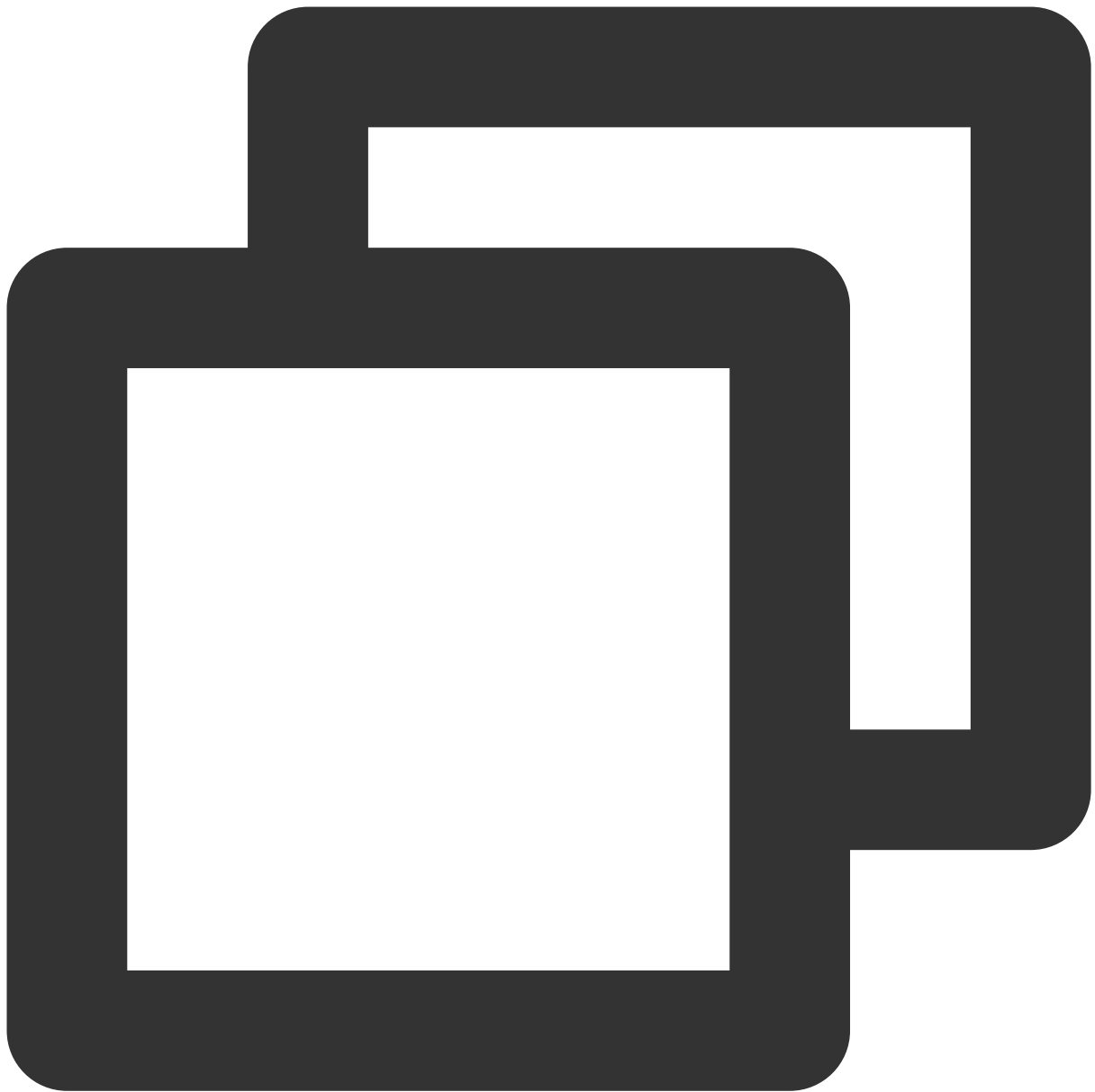
Basic authentication is used, i.e., adding a field (key-value pair) to the HTTP Header:



```
Authorization: Basic base64_auth_string
```

Sample:





```
Authorization:Basic base64(150000****:cf43dac624820*****c1fe5fc993)
```

# Request Structure

Last updated : 2024-01-17 14:24:51

## Service URL

Tencent Push Notification Service currently provides four service access points in Guangzhou, Shanghai, Hong Kong (China), and Singapore (Southeast Asia). The data between different service access points is completely isolated. Based on the service access point you selected when creating a product, a service URL is obtained.

**Test** Guangzhou

| Platform | Application Name            |
|----------|-----------------------------|
| Android  | Test-Android-long-name-test |
| iOS      | Test-iOS                    |

The table below lists the service URLs currently available:

| Service Access Point                     | Service URL                                                                       |
|------------------------------------------|-----------------------------------------------------------------------------------|
| Service access point in Guangzhou, China | <a href="https://api.tpns.tencent.com/">https://api.tpns.tencent.com/</a>         |
| Service access point in Shanghai, China  | <a href="https://api.tpns.sh.tencent.com/">https://api.tpns.sh.tencent.com/</a>   |
| Service access point in Hong Kong, China | <a href="https://api.tpns.hk.tencent.com/">https://api.tpns.hk.tencent.com/</a>   |
| Service access point in Singapore        | <a href="https://api.tpns.sgp.tencent.com/">https://api.tpns.sgp.tencent.com/</a> |

## Communication Protocol

All TencentCloud APIs communicate over HTTPS, which provides high security.

## Request Method

The supported HTTP request methods are as follows: POST

POST requests support the following content types:

1. application/json.
2. multipart/form-data (only supported by certain APIs).

## Character Encoding

Only `UTF-8` encoding is used.

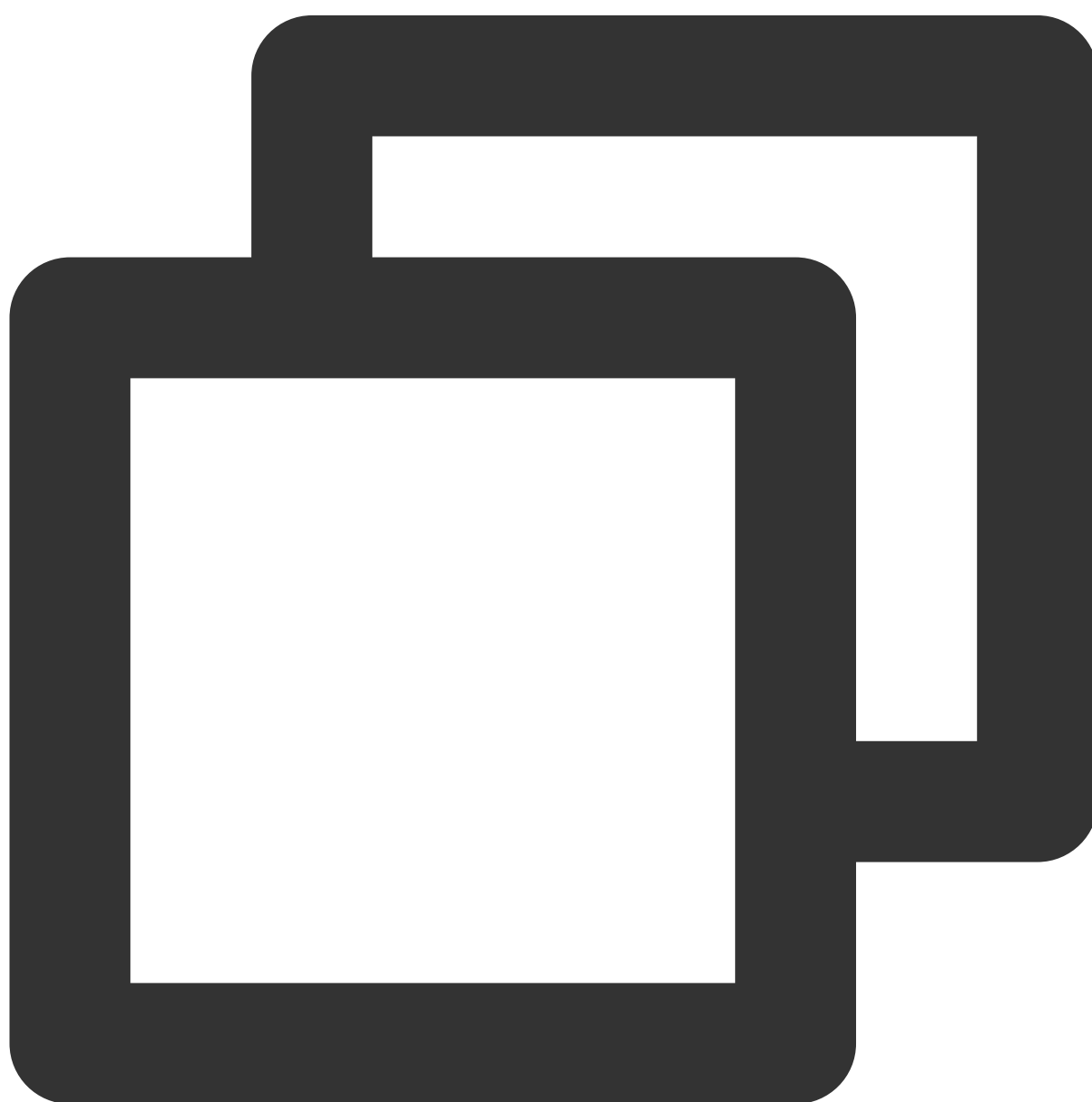
# Push APIs

## Push API

Last updated : 2024-01-17 14:24:51

### API Calling Description

**Request method:** POST.



```
Service URL/v3/push/app
```

The API service address corresponds to the service access point one by one; therefore, please select the service address corresponding to your application [service access point](#).

**Feature:** Push API is the general term for all push APIs. Push API supports different push targets.

All request fields are JSON encapsulated and uploaded to the backend, which differentiates push targets based on the request parameters. If an error code is returned, see [Server-Side Error Codes](#).

**Note:**

Based on the needs of business optimization, Tencent Push Notification Service limits the frequency of **push to all devices**, **push to devices with specified tags**, and **push by account package** through the console and API to one message per second.

If the frequency is exceeded, a push exception may occur. If you need a higher frequency, [contact our online customer service](#).

## Required Parameters

The required push parameters refer to the parameters that must be carried in a push message.

| Parameter     | Type   | Required           | Description                                                                                                                                                                                                                                                                                                                                                 |
|---------------|--------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| audience_type | String | Yes                | Push target. Valid values:<br>all: Push to all devices<br>tag: Push to devices with specific tags<br>token: Push to a single device<br>token_list: Push to a list of devices<br>account: Push to a single account<br>account_list: Push to a list of accounts<br>package_account_push: Push by account package<br>package_token_push: Push by token package |
| message       | Object | Yes                | Message body. For more information, see [message body type](#message body type).                                                                                                                                                                                                                                                                            |
| message_type  | String | Yes                | Message type. Valid values:<br>notify: Notification<br>message: In-app message/Silent message                                                                                                                                                                                                                                                               |
| environment   | String | Yes (only for iOS) | Push environment (only available for pushes on iOS). Valid values:<br>product: Production environment<br>dev: Development environment                                                                                                                                                                                                                       |

|           |         |                                                        |                                                                                                                                                              |
|-----------|---------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |         |                                                        | The phone registration environment and push environment must be consistent. For more information, see <a href="#">Push Environment Selection Description</a> |
| upload_id | Integer | Yes (only available for push by account/token package) | Account/Token package upload ID                                                                                                                              |

### audience\_type: Push target

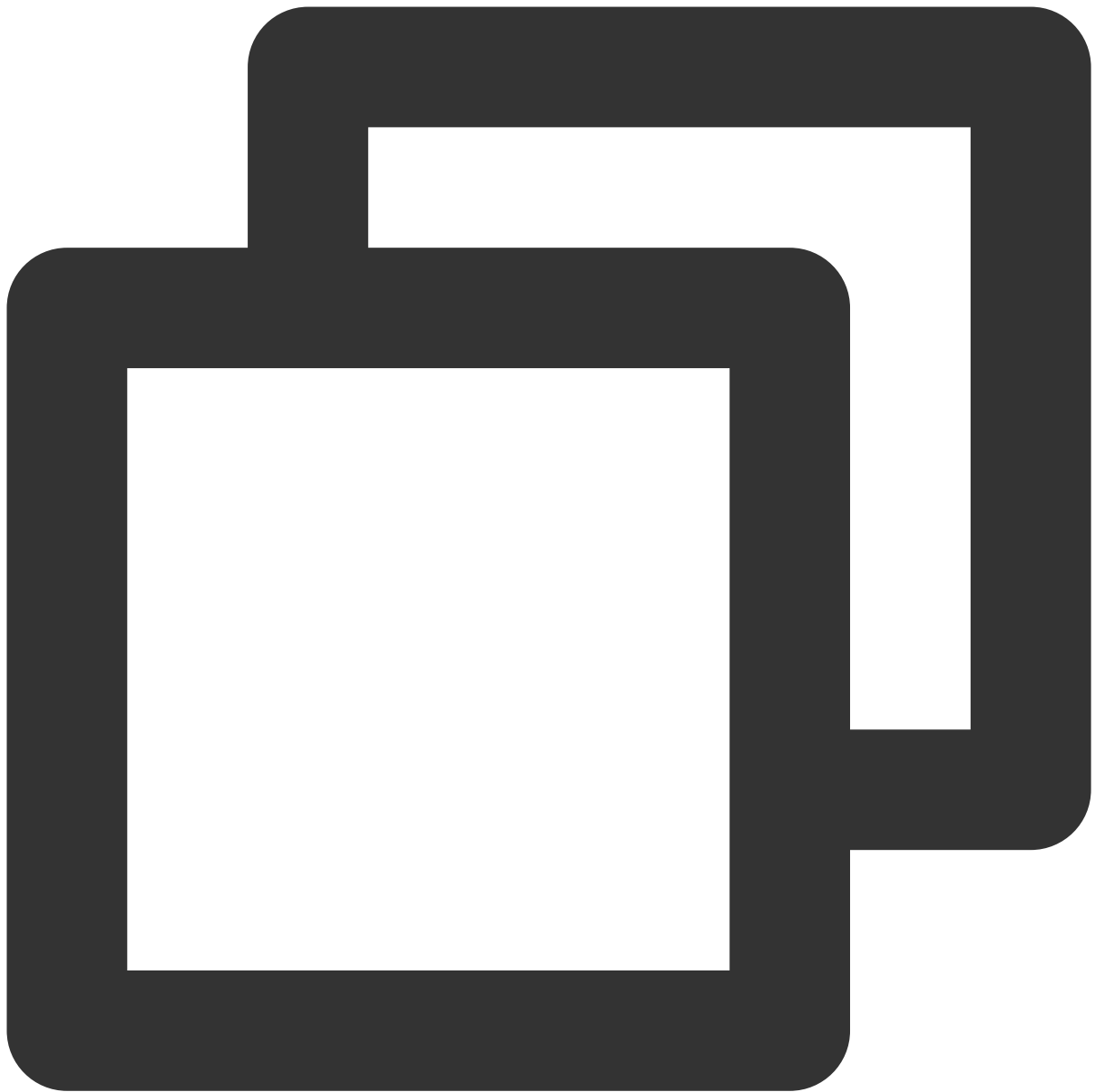
Push target indicates the devices a push can be delivered to.

Push API supports a variety of push targets, such as all devices, devices with specified tags, a single device, a list of devices, a single account, or a list of accounts.

| Push Target | Description                        | Required Parameters and Instructions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| all         | Push to all devices                | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| tag         | Push to devices with specific tags | <p><code>tag_rules</code> (recommended):<br/>Push by a combination of tags. You can set 'AND', 'OR' and 'NOT' rules.<br/><b>Note:</b>If both <code>tag_rules</code> and <code>tag_list</code> are specified, <code>tag_list</code> becomes invalid automatically. For parameter descriptions, see <a href="#">Tag combination rules</a>.</p> <p><code>tag_list</code> (no further updates):<br/>Push to devices with tag1 and tag2 {"tags": ["tag1","tag2"],"op":"AND"}<br/>Push to devices with tag1 or tag2 {"tags": ["tag1","tag2"],"op":"OR"}<br/>A tag list cannot exceed 512 characters</p> |
| token       | Push to a single device            | <p><code>token_list</code><br/>If the parameter contains multiple tokens, messages are pushed to the device with the first token only.<br/>Format example: ["token1"]<br/>A token string cannot exceed 36 characters.</p>                                                                                                                                                                                                                                                                                                                                                                         |
| token_list  | Push to a list of devices          | <p><code>token_list</code><br/>Up to 1,000 tokens<br/>Format example: ["token1","token2"]<br/>A token string cannot exceed 36 characters.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|                      |                            |                                                                                                                                                                                                                                                                                                                   |
|----------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                            | <b>Note:</b> If the token list contains more than 1,000 tokens, the push will fail. To push messages to devices corresponding with more than 1,000 tokens, we recommend you use the <a href="#">Token Package Upload API</a> .                                                                                    |
| account              | Push to a single account   | <code>account_list</code><br>If the parameter contains multiple accounts, messages are pushed to the first account only.<br>Format example: ["account1"]                                                                                                                                                          |
| account_list         | Push to a list of accounts | <code>account_list</code><br>Up to 1,000 accounts<br>Format example: ["account1","account2"]<br><b>Note:</b> If the account list contains more than 1,000 accounts, the push will fail. To push messages to more than 1,000 accounts, you are recommended to use the <a href="#">Account Package Upload API</a> . |
| package_account_push | Push by account package    | Required for uploading the account package to push                                                                                                                                                                                                                                                                |
| package_token_push   | Push by token package      | Required for uploading the token package to push                                                                                                                                                                                                                                                                  |

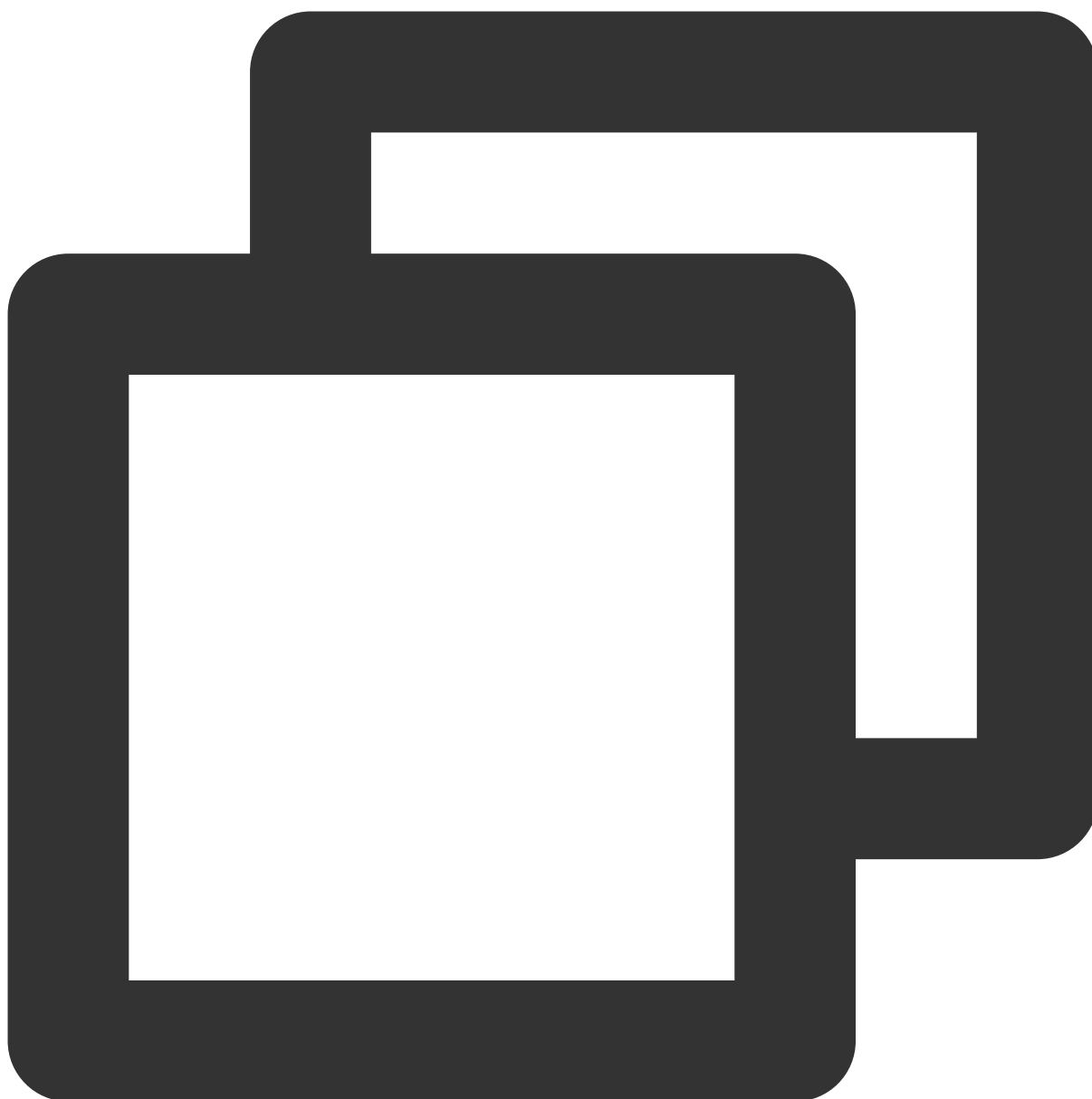
Push to all devices



```
{
 "audience_type": "all"
}
```

Push to devices with specified tags (using `tag_rules`): Push to male users who were active on April 8, 2020 in Guangdong or Hunan province



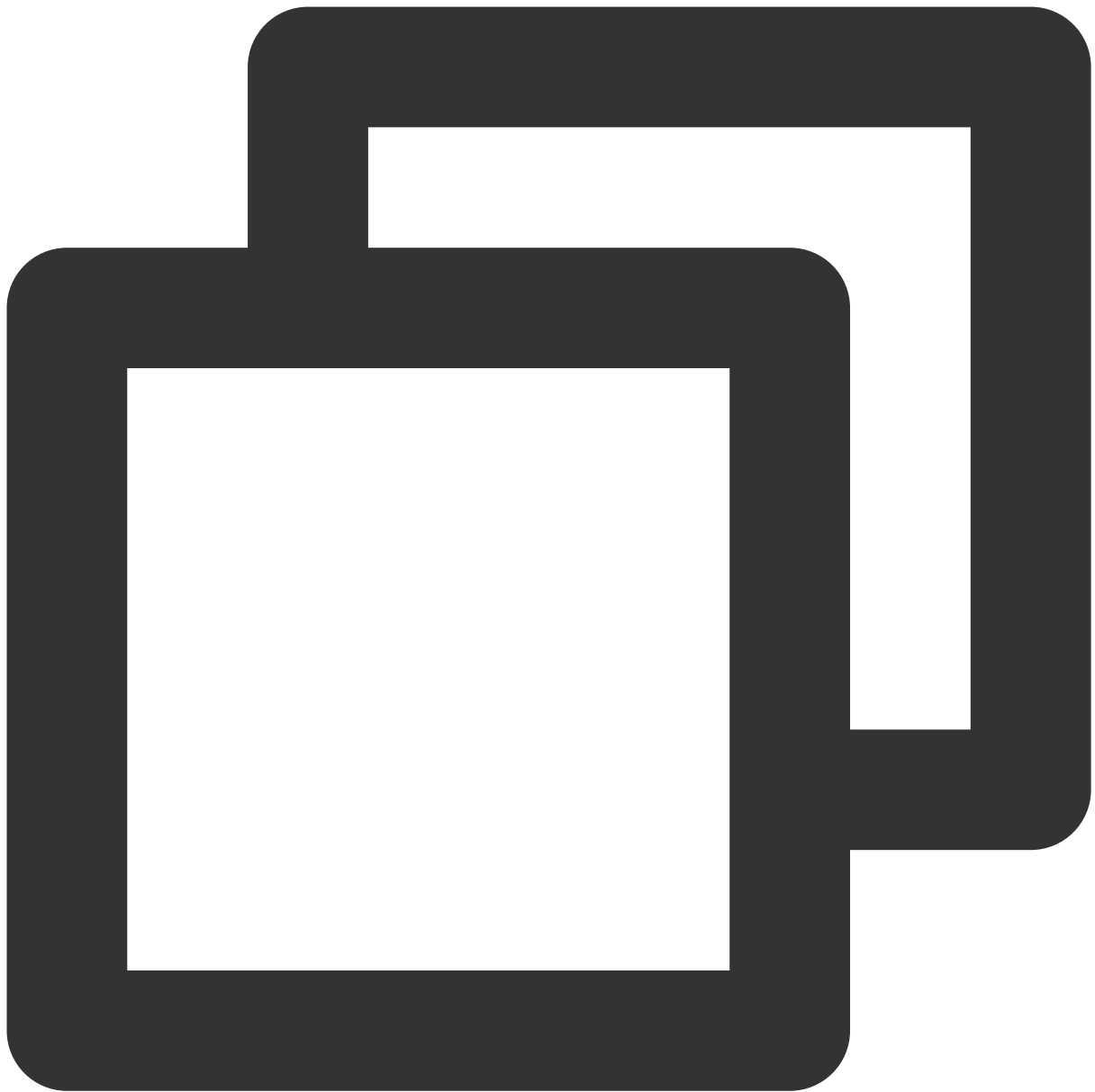


```
{
 "audience_type": "tag",
 "tag_rules": [
 {
 "tag_items": [
 {
 "tags": [
 "guangdong",
 "hunan"
],
 "is_not": false,

```

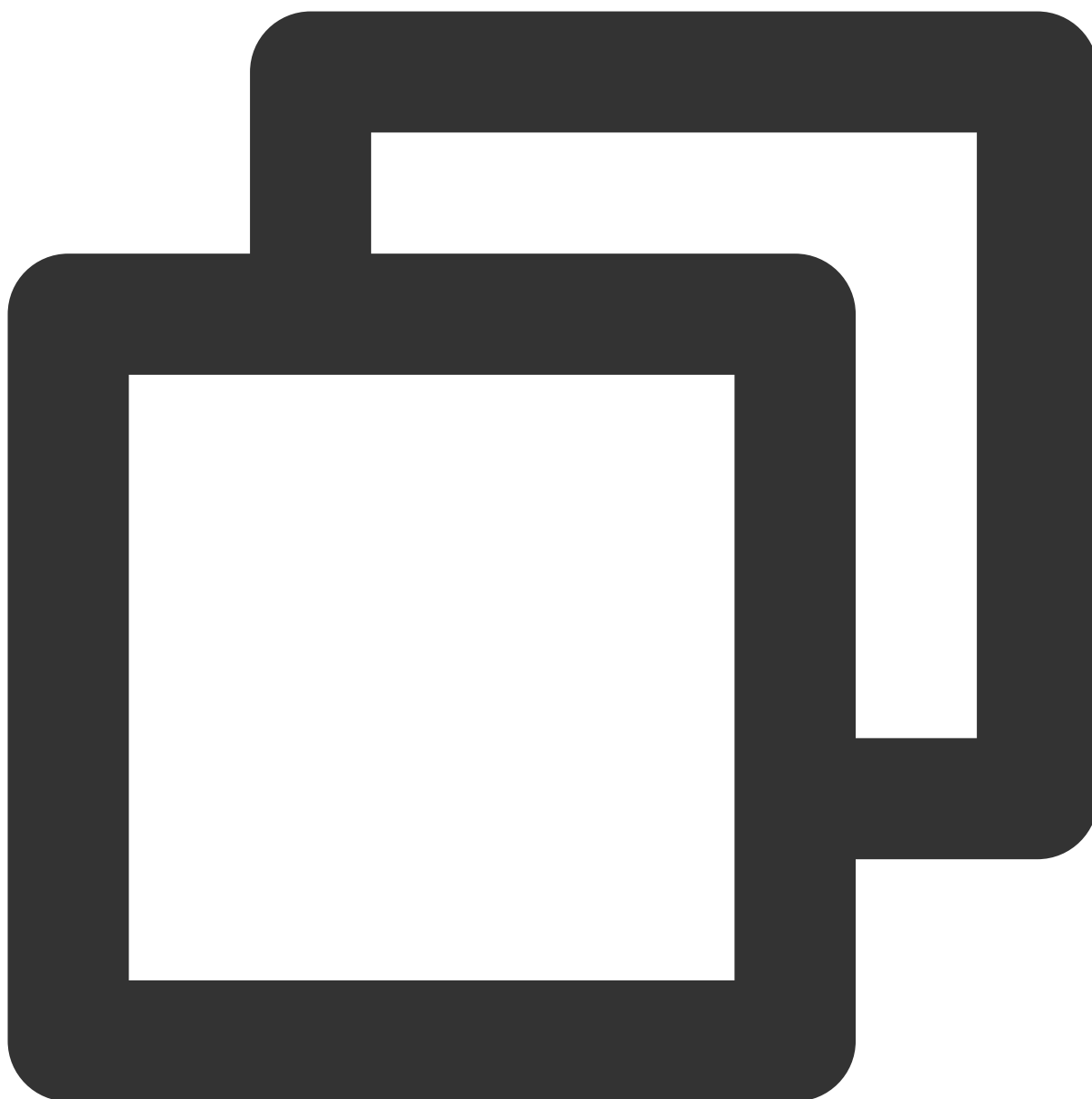
```
 "tags_operator": "OR",
 "items_operator": "OR",
 "tag_type": "xg_auto_province"
 },
 {
 "tags": [
 "20200408"
],
 "is_not": false,
 "tags_operator": "OR",
 "items_operator": "AND",
 "tag_type": "xg_auto_active"
 },
 {
 "tags": [
 "male"
],
 "is_not": false,
 "tags_operator": "OR",
 "items_operator": "AND",
 "tag_type": "xg_user_define"
 }
],
"operator": "OR",
"is_not": false
}
]
```

Push to a single device: Push to the device with `token1` as the token



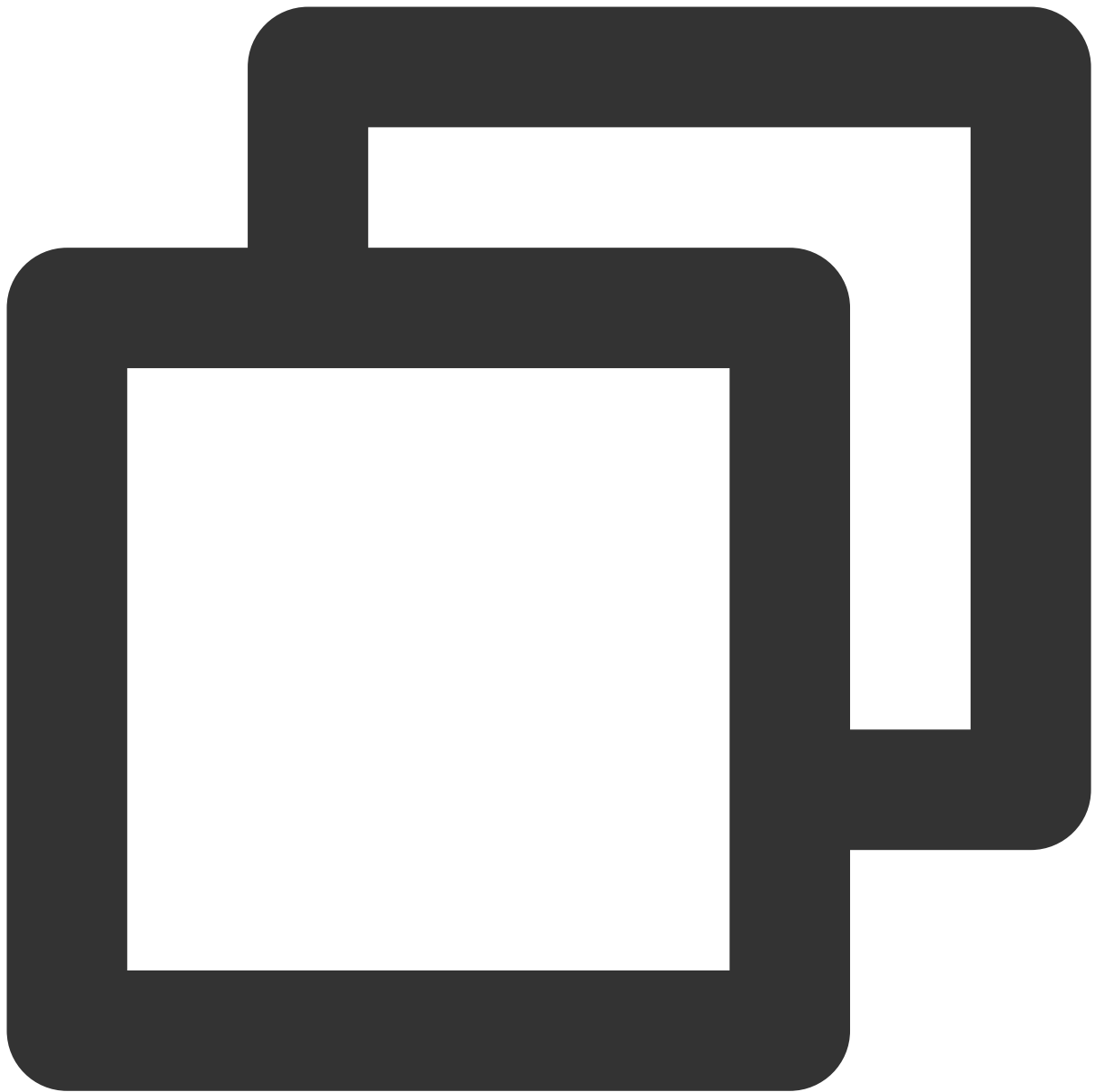
```
{
 "audience_type": "token",
 "token_list": [
 "token1"
]
}
```

Push to a list of devices: Push to devices with `token1` and `token2` as their tokens



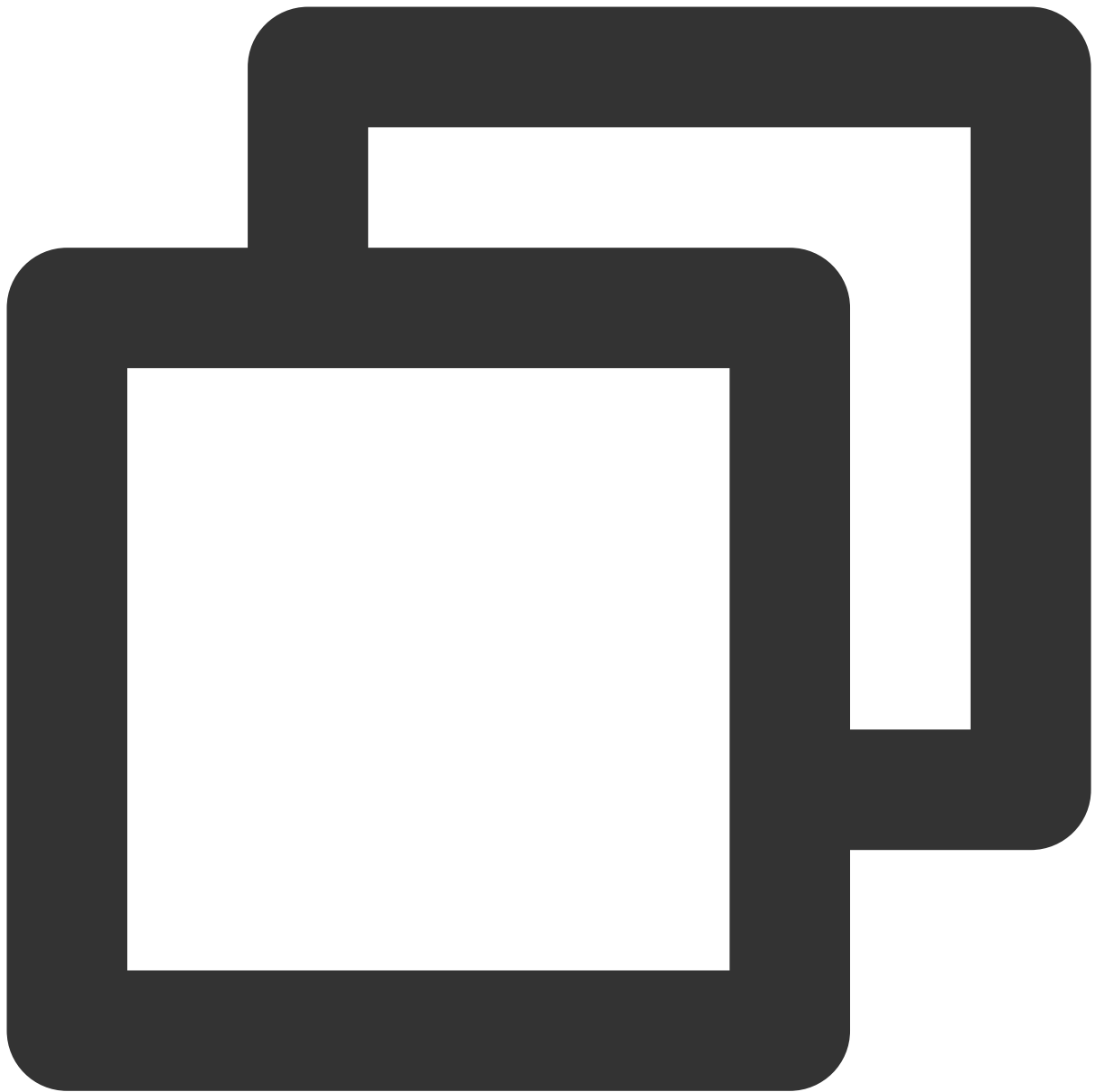
```
{
 "audience_type": "token_list",
 "token_list": [
 "token1",
 "token2"
]
}
```

Push to a single account: Push to the device bound to `account1`



```
{
 "audience_type": "account",
 "account_list": [
 "account1"
]
}
```

Push to a list of accounts: Push to devices bound to `account1` and `account2`



```
{
 "audience_type": "account_list",
 "account_list": [
 "account1",
 "account2"
]
}
```

**message\_type:** Message type

The message types may vary slightly by platform. For more information, see the table:

| Message Type | Description                      | Supported Platform                               | Feature Description                                                                                                                                                                                                           |
|--------------|----------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| notify       | Notification bar message         | Android and iOS                                  | Messages are displayed in the notification bar.<br><b>Note:</b> This parameter is mutually exclusive with <a href="#">content-available: 1</a> . Do not use them at the same time.                                            |
| message      | In-app message or silent message | Android (in-app message)<br>iOS (silent message) | Messages are not displayed in the notification bar.<br><b>Note:</b> Due to vendor restrictions, Android in-app messages can be delivered only through the Tencent Push Notification Service channel, but not vendor channels. |

### message: Message body

The message body is the message delivered to the client.

Push API handles messages on iOS and Android differently, so message pushes are implemented for the two platforms separately. The push message body is in the JSON format.

### General message on Android

The table specifies parameters for the Android platform:

| Parameter   | Type   | Parent Project | Default Value | Required | Description                                                                                                                                                                                                                                                                                                            |
|-------------|--------|----------------|---------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| title       | String | message        | Empty         | Yes      | Message title                                                                                                                                                                                                                                                                                                          |
| content     | String | message        | Empty         | Yes      | Message content                                                                                                                                                                                                                                                                                                        |
| accept_time | Array  | message        | Empty         | No       | The time period that allows pushes.<br>A single element is formed by a "start" time and an "end" time.<br>"start" and "end" are expressed in hour and minute. For more information, see the samples.<br><b>Note:</b> Due to vendor restrictions, this is valid only for the Tencent Push Notification Service channel. |
| thread_id   | String | message        | Empty         | No       | Thread ID for collapsed                                                                                                                                                                                                                                                                                                |

|                          |        |         |       |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|--------|---------|-------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |        |         |       |    | notification in threaded display.<br><b>Note:</b> Due to vendor restrictions, this is valid only for the Tencent Push Notification Service channel.                                                                                                                                                                                                                                                                                                                                                                                |
| thread_sumtext           | String | message | Empty | No | Summary displayed after the notification is collapsed in a thread, which is valid if thread_id is not empty.<br><b>Note:</b> Due to vendor restrictions, this is valid only for the Tencent Push Notification Service channel.                                                                                                                                                                                                                                                                                                     |
| xg_media_resources       | String | message | Empty | No | URL of large image in the notification bar, which takes effect only for the Tencent Push Notification Service and Mi channels.<br><b>Note:</b> To use the big image notification feature of the Mi channel, you need to call the Mi image uploading API to upload an image file, get the pic_url image address specified by Mi, and enter it in the xg_media_resources parameter of Tencent Push Notification Service. For more information, see the image uploading API section in <a href="#">Rich Text Message in Mi Push</a> . |
| xg_media_audio_resources | String | message | Empty | No | URL of audio rich media elements.<br>It supports audio in MP3, with a recommended size not exceeding 5 MB.<br><b>Note:</b> This parameter is valid only for the Tencent Push Notification Service channel.                                                                                                                                                                                                                                                                                                                         |
|                          |        |         |       |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



|         |        |         |       |    |                                                                                                                                    |
|---------|--------|---------|-------|----|------------------------------------------------------------------------------------------------------------------------------------|
| android | Object | message | Empty | No | Structure of advanced settings for Android notification. For more information, see <a href="#">Android structure description</a> . |
|---------|--------|---------|-------|----|------------------------------------------------------------------------------------------------------------------------------------|

### Android structure description

| Parameter     | Type    | Parent Project | Default Value | Required | Description                                                                                                                                                                                                                                                                                                                                            |
|---------------|---------|----------------|---------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| n_ch_id       | String  | android        | Empty         | No       | Notification channel ID (valid only for the Tencent Notification Service channel). For more information, see "Creating a notification channel" in <a href="#">API Document</a> .                                                                                                                                                                       |
| n_ch_name     | String  | android        | Empty         | No       | Notification channel name (valid only for the Tencent Notification Service channel). For more information, see "Creating a notification channel" in <a href="#">API Document</a> .                                                                                                                                                                     |
| xm_ch_id      | String  | android        | Empty         | No       | Mi channel ID (valid only for the Mi channel)                                                                                                                                                                                                                                                                                                          |
| fcm_ch_id     | String  | android        | Empty         | No       | FCM channel ID (valid only for the FCM channel)                                                                                                                                                                                                                                                                                                        |
| hw_biz_type   | Integer | android        | 0             | No       | Whether to enable notifications for Huawei quick messages:<br>1: Enable<br>0: Disable<br><b>Note:</b> This parameter takes effect only for the Huawei quick messages and you need to <a href="#">contact Huawei business team</a> .                                                                                                                    |
| hw_ch_id      | String  | android        | Empty         | No       | Huawei channel ID (valid only for the Huawei channel)                                                                                                                                                                                                                                                                                                  |
| hw_category   | String  | android        | Empty         | No       | Huawei message type, which identifies the message type and method and accelerates sending messages of the message.<br>For more information, see the category parameter in <a href="#">Sending Downlink Messages</a> .<br>IM: Instant messaging<br>VOIP: Audio/video call<br>SUBSCRIPTION: Subscription                                                 |
| hw_importance | Integer | android        | Empty         | No       | Message reminding level. Valid values:<br>1: Silent reminder in the notification bar, where no ringtone and vibration when a message arrives.<br>2: Strong reminder in the notification bar, where ringtone and vibration are used to remind the user when a message arrives.<br>The actual message reminding method will be determined by the system. |

|            |         |         |       |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------|---------|---------|-------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |         |         |       |    | according to the <a href="#">hw_category</a> field value or <a href="#">src categorization</a> result.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| oppo_ch_id | String  | android | Empty | No | OPPO channel ID (valid only for the OPPO ch                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| vivo_ch_id | String  | android | 0     | No | vivo channel ID (valid only for the vivo channel for operation message, and 1 for System mess                                                                                                                                                                                                                                                                                                                                                                                                                             |
| n_id       | Integer | android | 0     | No | <p><b>(This parameter has been disused and will be unavailable in the future. If you need the same feature, use the overriding parameter <code>cc</code></b></p> <p>A unique ID of the notification message object (Tencent Push Notification Service channel)</p> <p>(1) Greater than 0: Overrides the previous message with the same ID</p> <p>(2) Equal to 0: Displays this message without clearing previous messages</p> <p>(3) Equal to -1: Clears all previous messages and displays the current message only.</p> |
| builder_id | Integer | android | 0     | No | Local notification style identifier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| badge_type | Integer | android | -1    | No | <p>Notification badge:</p> <p>-2: Automatically increased by 1, valid only for Huawei devices</p> <p>-1: Unchanged, valid only for Huawei and vivo devices</p> <p>[0, 100): Direct configuration, valid only for Huawei devices</p> <p><b>Note:</b> The badge adaptation capabilities vary by vendor device. For details about the implementation of each parameter value, see <a href="#">Badge Adaptation</a></p>                                                                                                       |
| ring       | Integer | android | 1     | No | Whether there is a ringtone. Valid values:<br>0: No<br>1: Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ring_raw   | String  | android | Empty | No | <p>Name of the ringtone file in the raw directory of the project; no extension is needed.</p> <p>Note: Custom ringtones are supported only for FCM, and Tencent Push Notification Service client must be used with the field <code>n_ch_id</code>. For the client process, see <a href="#">How do I set a custom ringtone?</a></p>                                                                                                                                                                                        |
| vibrate    | Integer | android | 1     | No | Whether to enable vibration. Valid values:<br>0: No<br>1: Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| lights     | Integer | android | 1     | No | Whether to use the breathing light. Valid value                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|                |         |         |       |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------|---------|---------|-------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |         |         |       |    | 0: No<br>1: Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| clearable      | Integer | android | 1     | No | Whether messages can be cleared from the notification bar                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| icon_type      | Integer | android | 0     | No | Whether the notification bar thumbnail is an in-app icon. Valid values:<br>0: In-app icon (for the Tencent Push Notification Service channel only).<br>1: Online resource icon. This parameter is supported only for the Tencent Push Notification Service, FCM, and HONOR channels.                                                                                                                                                                                                                |
| icon_res       | String  | android | N/A   | No | Specifies image resource of the notification bar thumbnail.<br>If icon_type is 0, enter the filename (without extension) of the image resource in the Android application (for the Tencent Push Notification Service channel only).<br>If icon_type is 1, enter the URL of the thumbnail image. For information on the thumbnail formats, see <a href="#">Rich Push Notification</a> . This parameter is supported only for the Tencent Push Notification Service, FCM, Huawei, and HONOR channels. |
| style_id       | Integer | android | 1     | No | Whether the notification style with the specified id is overwritten                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| small_icon     | String  | android | Empty | No | The icon that the message displays in the status bar. If the parameter is not set, the application icon will be used.                                                                                                                                                                                                                                                                                                                                                                               |
| icon_color     | Integer | android | 0     | No | Color of the icon in the notification bar.<br>This parameter takes effect only for the Tencent Push Notification Service channel.<br>To use an RGB color such as #01e240, enter the hex value.                                                                                                                                                                                                                                                                                                      |
| action         | Object  | android | Yes   | No | The action after the notification bar is clicked; for example, whether to open the app. For more information, see <a href="#">Rich Push Notification description</a> .                                                                                                                                                                                                                                                                                                                              |
| custom_content | String  | android | N/A   | No | A custom parameter (which should be serialized as a string). For how to obtain this parameter, see [How to Redirect-Getting parameters on the client] (https://www.tencentcloud.com/document/product/1001/34020).<br>Note :<br>Huawei officially announced that "the v2 protocol will be discontinued starting September 30, 2021". Tencent Cloud Push Notification Service has upgraded the Huawei v2 protocol to v5, which does not support carrying custom parameters.                           |

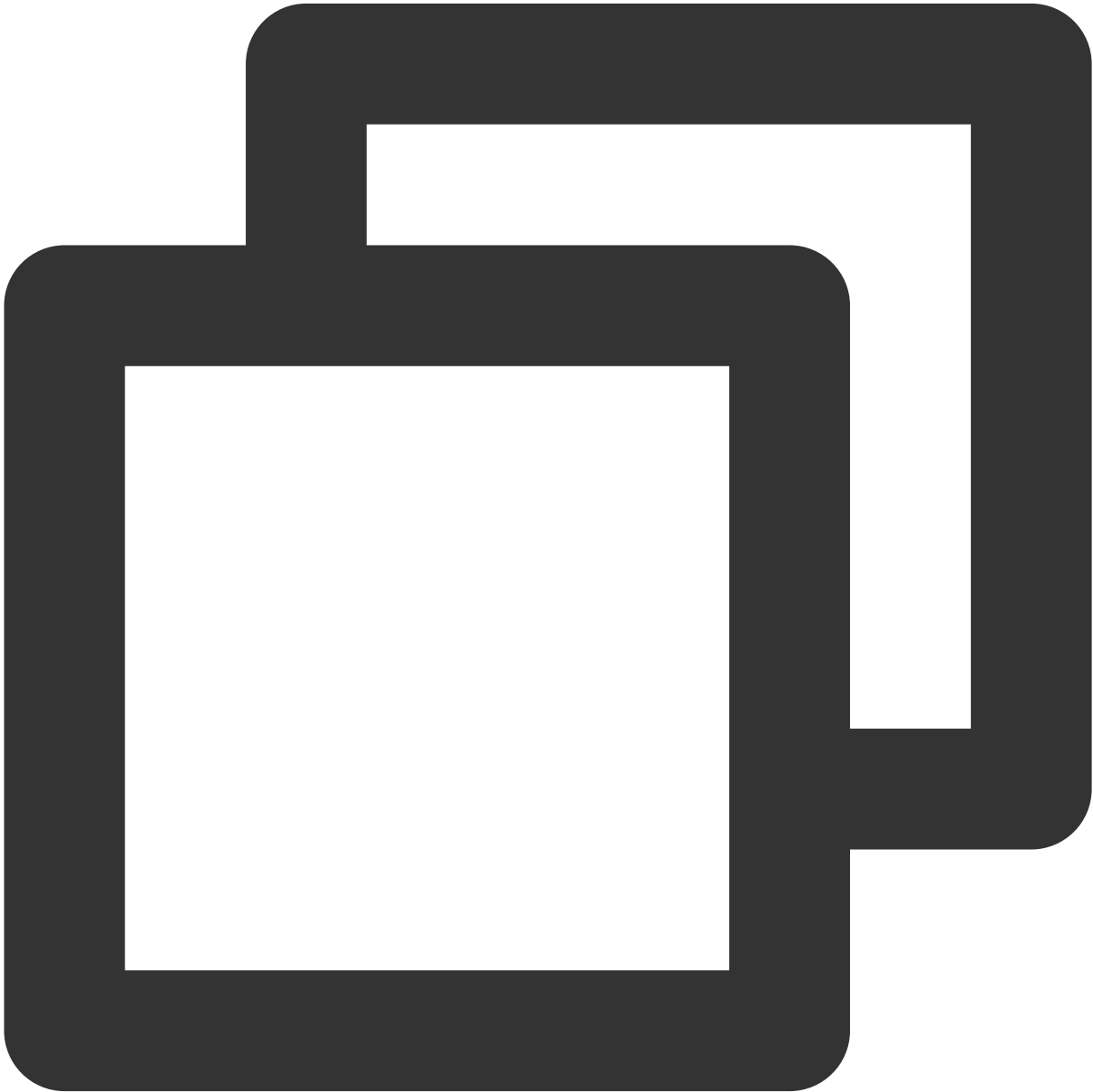
|           |         |         |   |    |                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------|---------|---------|---|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |         |         |   |    | through the extra parameter(s) field. If you have a Huawei channel, we recommend you use Inter parameters; otherwise, custom parameters can be passed through the Huawei channel.                                                                                                                                                                                                                                     |
| show_type | Integer | android | 2 | No | <p>Whether to display the notification when the app is running in the foreground, which is displayed by the parameter. The parameter takes effect only for the Tencent Push Notification Service and FCM channels. Valid values:</p> <p>1 : No<br/>2 : Yes</p> <p>Note: If the value is 1 and the application is running in the foreground, this push is imperceptible to end users and no data will be reported.</p> |

**action parameter description**

| Parameter   | Type    | Parent Project | Default Value | Required                                                   | Description                                                                                                                                                                                                         |
|-------------|---------|----------------|---------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| action_type | Integer | action         | 1             | No                                                         | <p>One-click actions. Valid values:</p> <p>1: Open activity or the application<br/>2: Open the browser<br/>3: Open the application's custom page (recommended; for more information, see <a href="#">here</a>).</p> |
| activity    | String  | action         | Empty         | Yes if action_type is 1 and an activity needs to be opened | Full name of activity, such as com.x.y.PushActivity                                                                                                                                                                 |
| aty_attr    | Object  | action         | Empty         | No if action_type is 1 and an activity needs to be opened  | <p>Activity attribute</p> <p>if: Flag attribute of Intent in Integer type<br/>pf: Flag attribute of PendingIntent in Integer type</p>                                                                               |
| browser     | Object  | action         | Empty         | Yes if action_type is 2                                    | <p>Action to open a browser</p> <p>url: Webpage URL in String type. Only HTTP and HTTPS URLs are supported<br/>confirm: Whether user's confirmation is required. The value is in Integer type.</p>                  |

|        |        |        |       |                               |                                                                  |
|--------|--------|--------|-------|-------------------------------|------------------------------------------------------------------|
|        |        |        |       |                               | 1: Yes<br>0: No                                                  |
| intent | String | action | Empty | Yes if<br>action_type<br>is 3 | Custom scheme, such as<br>xgscheme://com.tpns.push/notify_detail |

Below is a sample of a complete message:



```
{
 "title": "xxx",
}
```

```

"content": "xxxxxxxxxx",
"tg_media_resources": "xxx" , // Enter the URL of rich media elements, such as
"tg_media_audio_resources": "xxx", // Enter the URL of audio rich media elements
"thread_id": "Activity_id",
"thread_sumtext": "Operational activity",
"accept_time": [
 {
 "start": { // Period start time
 "hour": "13", // Start time in hour. Value range: [0,24)
 "min": "00" // Start time in minute. Value range: [0,60)
 },
 "end": { // Period end time
 "hour": "14", // End time in hour. Value range: [0,24)
 "min": "00" // End time in minute. Value range: [0,60)
 }
 },
 {
 "start": {
 "hour": "00",
 "min": "00"
 },
 "end": {
 "hour": "09",
 "min": "00"
 }
 }
],
"android": {
 "n_ch_id": "default_message",
 "n_ch_name": "default notification",
 "n_id": 0,
 "builder_id": 0,
 "ring": 1,
 "ring_raw": "ring",
 "badge_type": -1,
 "vibrate": 1,
 "lights": 1,
 "clearable": 1,
 "icon_type": 0,
 "icon_res": "tg",
 "style_id": 1,
 "small_icon": "tg",
 "action": {
 "action_type": 1, // Action type; 1. Open activity or applic
 "activity": "com.x.y.PushActivity",
 "aty_attr": { // Activity attribute, only for action_type=1

```

```

 "if": 0, // Intent's flag attribute
 "pf": 0 // PendingIntent's flag attribute
 },
 "browser": {
 "url": "https://cloud.tencent.com ", // Only HTTP a
 "confirm": 1 // Whether user's confirmation is requ
 },
 "intent": "xgscheme://com.tpns.push/notify_detail" //The SD
},
"custom_content": "{\\"key\\":\\"value\\"}"
}
}

```

## Notification message on iOS

The table below specifies parameters for the iOS platform.

| Parameter          | Type    | Parent Project | Default Value | Required | Description                                                                                                                                                                                                                                                                                |
|--------------------|---------|----------------|---------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| title              | String  | message        | Empty         | Yes      | Message title, which will override the content in title under alert.                                                                                                                                                                                                                       |
| content            | String  | message        | Empty         | Yes      | Message content, which will override the content in body under alert.                                                                                                                                                                                                                      |
| thread_id          | String  | message        | Empty         | No       | Thread ID for collapsed notification in threaded display                                                                                                                                                                                                                                   |
| ios                | Object  | message        | Empty         | Yes      | iOS message structure. See <a href="#">iOS parameter description</a> for more information.                                                                                                                                                                                                 |
| show_type          | Integer | message        | 2             | No       | Whether to display the notification when the application is running in the foreground.<br>Valid values:<br>1: No<br>2: Yes<br><b>Note:</b> If the value is 1 and the application is running in the foreground, this push is imperceptible to end users, but arrival data will be reported. |
| xg_media_resources | String  | message        | Empty         | No       | URL of rich media elements such                                                                                                                                                                                                                                                            |

as image, audio, and video. For more information, see [Rich Media Notification](#).

### iOS parameter description

| Field          | Type   | Parent Project | Default Value | Required | Description                                                                                                                                           |
|----------------|--------|----------------|---------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| aps            | Object | ios            | Empty         | Yes      | APNs-specific parameter. For more information, see <a href="#">aps parameter description</a> . For further information, see <a href="#">Payload</a> . |
| custom_content | String | ios            | Empty         | No       | Custom parameter for delivery, which must be serialized to a JSON string.                                                                             |

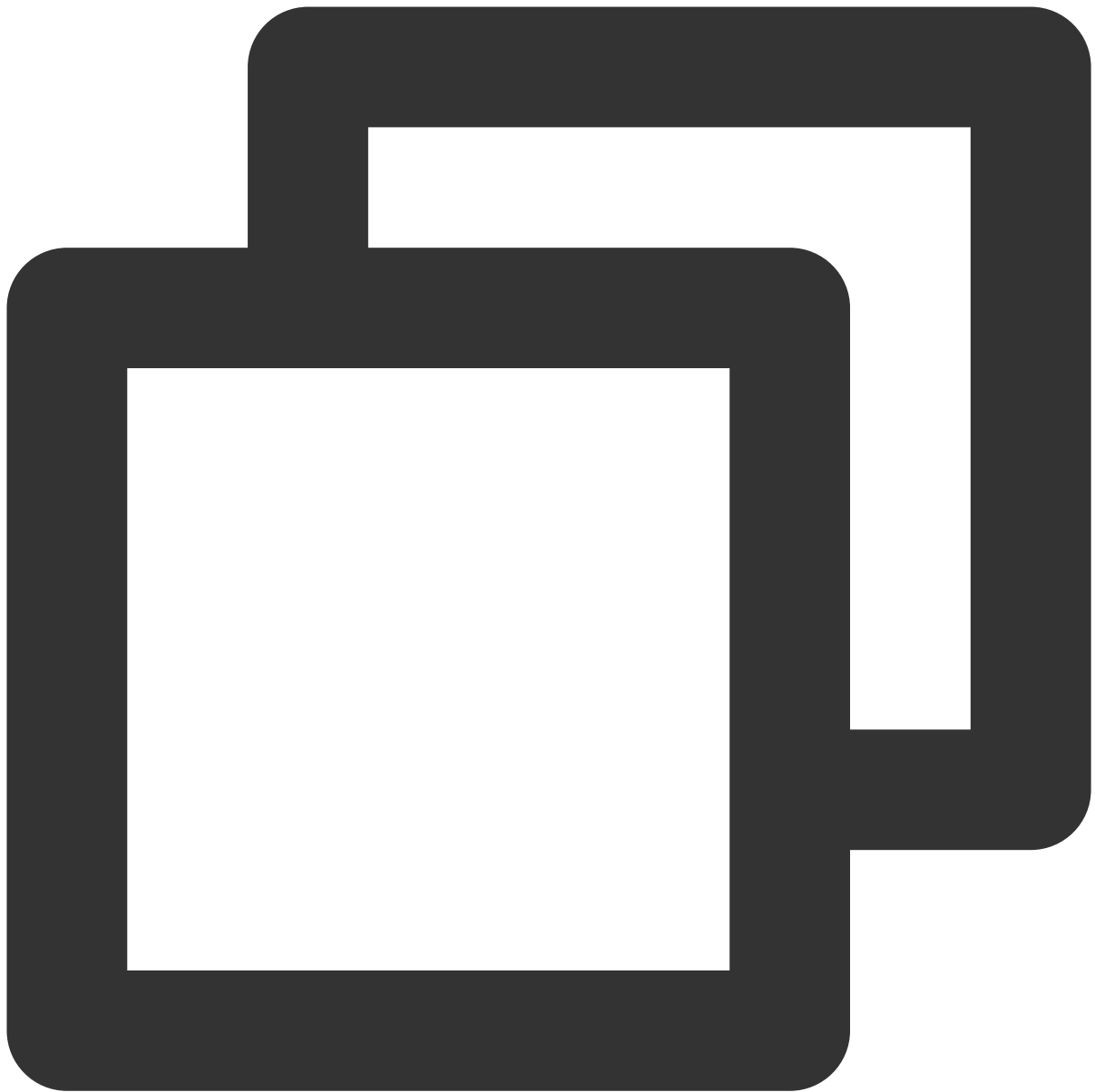
### aps parameter description

| Parameter       | Type    | Parent Project | Default Value | Required | Description                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|---------|----------------|---------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| alert           | Object  | aps            | Empty         | Yes      | Contains the title and message content.                                                                                                                                                                                                                                                                                                                                                                            |
| badge_type      | Integer | aps            | Empty         | No       | User-configured badge number. Valid values:<br>-1: The badge number does not change.<br>-2: The badge number automatically increases by 1.<br>≥0: A custom badge number is configured.                                                                                                                                                                                                                             |
| category        | String  | aps            | Empty         | No       | Action identifier displayed when the message is pulled down.                                                                                                                                                                                                                                                                                                                                                       |
| mutable-content | Integer | aps            | 1             | No       | This is an additional notification field that carries "mutable-content" during push.<br>1 means that the Service Extension supports iOS 10.<br>Once enabled, the push details will include the arrival data report.<br>Before using this feature, see <a href="#">Notification Service Extension</a> to implement the Service Extension API. If mutable-content is not carried, arrival data will not be reported. |



|                    |        |     |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|--------|-----|--------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| sound              | String | aps | Empty  | No | <p>Use instructions:</p> <p>To play the system default ringtone, use "sound": "default"</p> <p>To play local custom ringtone, use "sound": "chime.aiff"</p> <p>To mute, use "sound": "" or remove the sound parameter.</p> <p><b>Note:</b> If you want to use a custom ringtone, the ringtone must be in Linear PCM, MA4 (IMA/ADPCM), alaw, or <math>\mu</math>Law format, saved in the bundle directory of the project, and last for 30 seconds at most; otherwise, the system default ringtone will be used.</p> |
| interruption-level | String | aps | active | No | <p>Valid only for devices with iOS 15 or later. It needs to <a href="#">enable Time Sensitive Notifications in Capabilities</a>. There are four interruption levels:</p> <p>passive: Indicates notifications not requiring immediate attention.</p> <p>active: Indicates default notifications.</p> <p>time-sensitive: Indicates notifications requiring immediate attention.</p> <p>critical: Indicates highly important notifications requiring immediate attention.</p>                                         |

Below is a sample of a complete message:



```
{
 "title": "xxx",
 "content": "xxxxxxxxxx",
 "thread_id": "Activity_id",
 "xg_media_resources": "https://www.xx.com/img/bd_logo1.png",
 "show_type": 1,
 "ios": {
 "aps": {
 "alert": {
 "subtitle": "my subtitle"
 }
 }
 }
}
```

```

 "badge_type": 5,
 "category": "INVITE_CATEGORY",
 "sound": "default",
 "interruption-level": "time-sensitive",
 "mutable-content": 1
 },
 "custom_content": "{\\"key\\":\\"value\\"}"
}

```

## In-app message on Android

In-app message is unique to the Android platform and not displayed in the notification bar of the mobile phone. It can be used to deliver controlled messages to users imperceptibly.

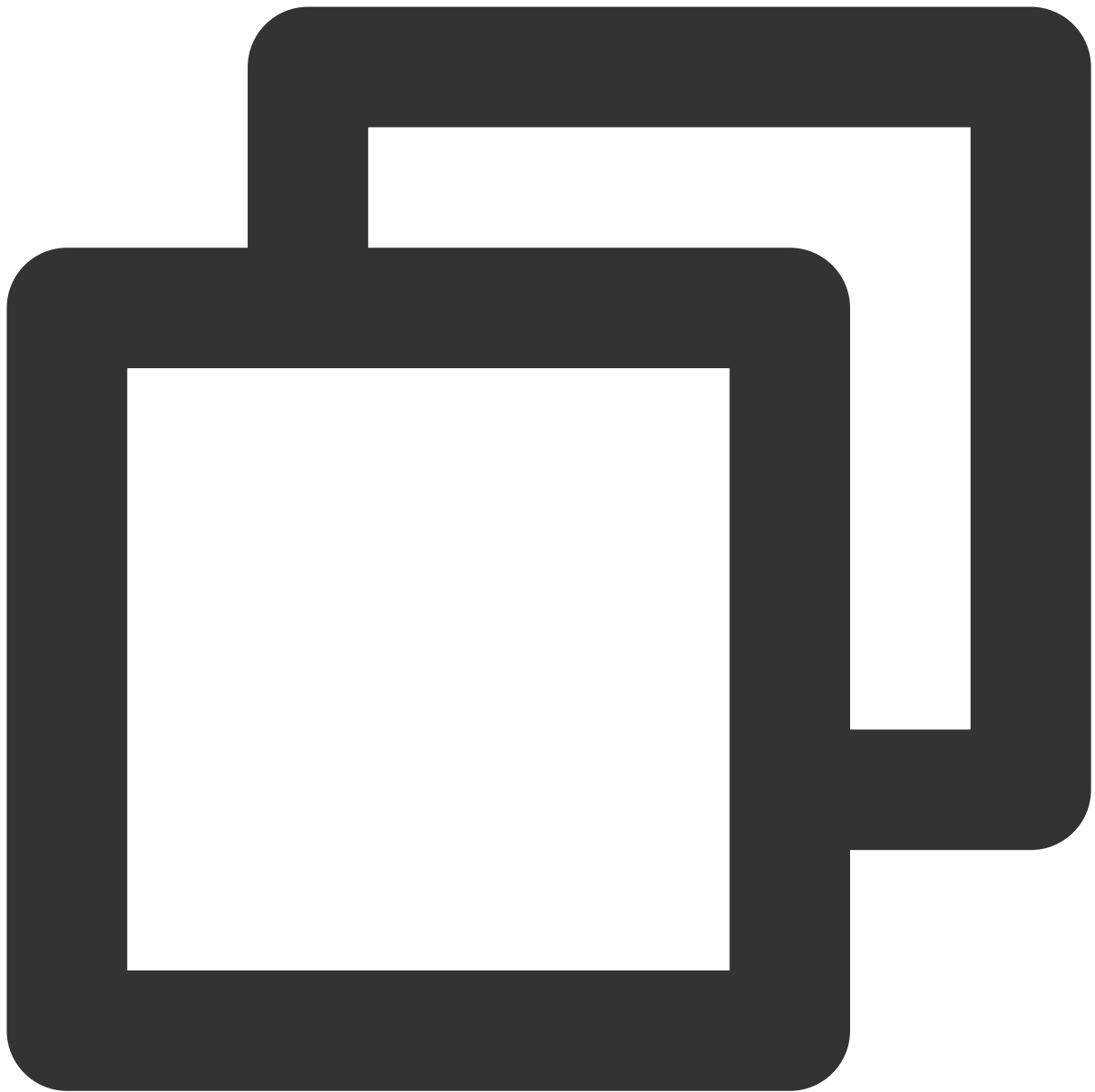
### Note:

Due to vendor restrictions, Android in-app messages can be delivered through only the Tencent Push Notification Service channel and cannot be delivered through vendor channels.

The table specifies parameters for the Android platform:

| Parameter      | Type   | Parent Project | Default Value | Required | Description                                                                                                                                                                                                                                                                                                                |
|----------------|--------|----------------|---------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| title          | String | message        | Empty         | Yes      | Command description                                                                                                                                                                                                                                                                                                        |
| content        | String | message        | Empty         | Yes      | Command content                                                                                                                                                                                                                                                                                                            |
| android        | Object | message        | Empty         | No       | Android message structure                                                                                                                                                                                                                                                                                                  |
| accept_time    | Array  | message        | Empty         | No       | <p>The time period that allows pushes. A single element is formed by a "start" time and an "end" time. "start" and "end" are indicated by hour and minute. For more information, see the samples.</p> <p><b>Note:</b> This is valid only for the Tencent Push Notification Service channel due to vendor restrictions.</p> |
| custom_content | String | android        | Empty         | No       | Custom content, which must be serialized to a JSON string                                                                                                                                                                                                                                                                  |

Complete sample:



```
{
 "title": "this is title",
 "content": "this is content",
 "android": {
 "custom_content": "{\\"key\\":\\"value\\"}"
 },
 "accept_time": [
 {
 "start": {
 "hour": "13",
 "min": "00"
 }
 }
]
}
```

```

 },
 "end": {
 "hour": "14",
 "min": "00"
 }
 },
 {
 "start": {
 "hour": "00",
 "min": "00"
 },
 "end": {
 "hour": "09",
 "min": "00"
 }
 }
]
}

```

## iOS silent messages

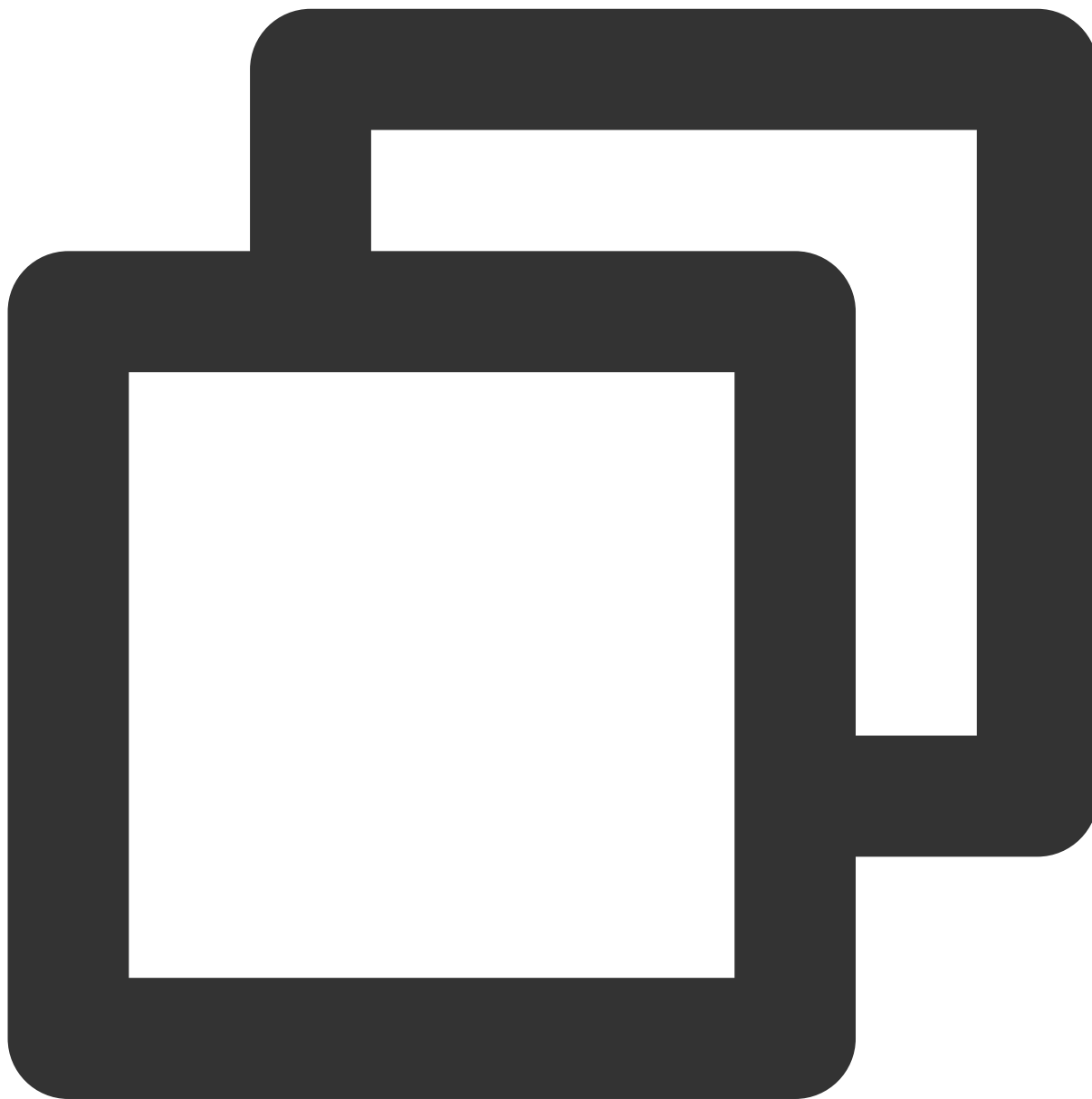
Similar to in-app messages on Android, silent messages are unique to the iOS platform and are not displayed. When a silent message arrives at the device, iOS wakes up the application for a period of time (less than 30 seconds) in the background to let the application handle the message logic.

The specific parameters are as follows:

| Parameter | Type   | Parent Project | Default Value | Required | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|--------|----------------|---------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ios       | Object | message        | Empty         | Yes      | iOS message structure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| aps       | Object | ios            | Empty         | Yes      | <p>APNs-specific parameter, where the most important key-value pair is as follows:</p> <p>content-available: Identifies the message type (which must be 1), in integer.</p> <p>The value cannot contain the <code>alert</code>, <code>sound</code>, or <code>badge_type</code> parameters. For more information, see <a href="#">Payload</a>.</p> <p><b>Note:</b> <code>content-available: 1</code> is mutually exclusive with <code>[message_type:"notify"]</code> (#message body type). Do not use them at the same time.</p> |

|                |        |     |       |    |                                                            |
|----------------|--------|-----|-------|----|------------------------------------------------------------|
| custom_content | String | ios | Empty | No | Custom content, which must be serialized to a JSON string. |
|----------------|--------|-----|-------|----|------------------------------------------------------------|

Complete sample:



```
{
 "ios":{
 "aps": {
 "content-available": 1
 },

```

```

 "custom_content": "{\\"key\\":\\"value\\"}"
 }
}

```

## Optional Parameters

Optional push API parameters refer to advanced parameters that can be carried in a push message, except

`audience_type` , `message_type` , and `message` .

| Parameter                | Type    | Parent Project | Required | Default Value       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|---------|----------------|----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>expire_time</code> | Integer | None           | No       | 86,400 (24 hours)   | <p>Offline message retention duration (in seconds), up to 72 hours. If <code>expire_time</code> is 0, it indicates a real-time message.</p> <p>If <code>expire_time</code> is greater than or less than 800s, the system will reset it to 800s.</p> <p>If <code>expire_time</code> is greater than or equal to 800s, the message is retained according to the set value, up to 72 hours.</p> <p>The value set cannot exceed 259200; otherwise, the push fails.</p> <p>To adjust the offline message retention duration, <a href="#">contact our online customer service</a>.</p> |
| <code>send_time</code>   | String  | None           | No       | Current system time | <p>Push time. You can specify a time in the next 90 days. The format is yyyy-MM-DD HH:MM:SS.</p> <p>If the push time specified is earlier than the current server time, push starts immediately.</p> <p>This parameter is supported for push to all devices, push account package, or push to devices with specified tags.</p>                                                                                                                                                                                                                                                   |
| <code>multi_pkg</code>   | Boolean | None           | No       | false               | Multi-package name push: For an application that has multiple                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|              |        |      |                       |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|--------|------|-----------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |        |      |                       |                                                       | <p>packages (such as for MyApp Wandoujia), if you want the application in all channels to receive the push message, you can set this value to true.</p> <p><b>Note:</b> This parameter controls multi-package name push of Tencent Push Notification Service channel by default. To implement multi-package name push of vendor channels, see <a href="#">Configure vendor channel for multi-package name</a>.</p> |
| loop_param   | Object | None | No                    | 0                                                     | <p>Loop push parameters. This parameter is supported only push to all devices, push by account package, or push to devices with specified tags. For more information about loop parameters, see the <a href="#">loop_param parameter description</a> below.</p>                                                                                                                                                    |
| group_id     | String | None | No                    | tpns_yyyymmdd, where yyyymmdd indicates the push date | <p><b>This parameter has been disused and will be unavailable in the future. If you need the aggregate statistics feature, use the push plan parameter (plan_id).</b></p>                                                                                                                                                                                                                                          |
| plan_id      | String | None | No                    | Empty                                                 | <p>Push plan ID. For more information about how to create and use push plan, see <a href="#">Push Plan</a>.</p>                                                                                                                                                                                                                                                                                                    |
| tag_rules    | Array  | None | Yes for tag push only | Empty                                                 | <p>For push based on a combination of tags, you can set 'AND', 'OR' and 'NOT' rules</p> <p><b>Note:</b> If both <code>tag_rules</code> and <code>tag_list</code> are specified, <code>tag_list</code> becomes invalid automatically. For parameter descriptions, see <a href="#">tag_rules parameter description</a>.</p>                                                                                          |
| account_list | Array  | None | Yes for push to a     | Empty                                                 | <p>For push to a single account</p>                                                                                                                                                                                                                                                                                                                                                                                |



|                      |         |      |                                                      |                 |                                                                                                                                                                                                                                 |
|----------------------|---------|------|------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |         |      | single account or a list of accounts                 |                 | audience_type must be <code>account</code><br>Format: ["account1"]<br>For push to a list of accounts:<br>Format: ["account1", "account2"]<br>Up to 1,000 accounts                                                               |
| account_push_type    | Integer | None | No for push by account                               | 0               | Push type. Valid values:<br>0: Push messages to the latest device of the account<br>1: Push messages to all devices associated with the account                                                                                 |
| account_type         | Integer | None | No                                                   | 0               | Account type, which must be consistent with that of the accounts to push to. For valid values, see <a href="#">Account Type V Table</a> .                                                                                       |
| token_list           | Array   | None | Yes for push to a single device or a list of devices | Empty           | For push to a single device:<br><code>audience_type</code> must be <code>token</code><br>Format: ["token1"]<br>For push to a list of devices:<br>Format: ["token1", "token2"]<br>Up to 1,000 tokens                             |
| ignore_invalid_token | int     | None | No                                                   | 0               | <code>0</code> : The API call will fail if there is an invalid token.<br><code>1</code> : Ignore the invalid token and continue to deliver.<br><b>Note:</b> This parameter takes effect only for push by a token or token list. |
| push_speed           | Integer | None | No                                                   | Empty           | Push speed limit to X pushes per second. Value range of X: 1, 50,000<br>This parameter is valid only for push to all devices, push by account package, and push to devices with specified tags.                                 |
| collapse_id          | Integer | None | No                                                   | System-assigned | Message overriding parameter. After the first push task has                                                                                                                                                                     |

|                       |         |      |    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------|---------|------|----|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       |         |      |    | collapse_id | <p>scheduled and delivered, if the second push task carries the collapse_id, it will stop the Tencent Push Notification Service channel data in the first push task that has not been delivered, and will also overwrite the message in the first push task. The collapse_id of a complete task can be obtained via the <a href="#">Querying Push Information for One Task</a> API.</p> <p>Currently, this is supported for push to all devices, push to devices with specified tags, push by account package.</p> |
| channel_rules         | Array   | None | No | Empty       | <p>Push channel selection policy. You can select the channels through which a push can be delivered. Messages are pushed through all channels by default. For more information about the push policy, see <a href="#">Channel Policy</a>. For the data structure of single elements in the channel_rule array, see [channel_rules field description](#channel_rules_description_1) below.</p>                                                                                                                      |
| tpns_online_push_type | Integer | None | No | 0           | <p>Whether to push the message to online devices through the Tencent Push Notification Service channel. Valid values:</p> <ul style="list-style-type: none"> <li>0 : Yes</li> <li>1 : No</li> </ul>                                                                                                                                                                                                                                                                                                                |
| force_collapse        | Boolean | None | No | false       | <p>Whether to deliver message to OPPO or vivo devices that do not support message overriding values:</p> <ul style="list-style-type: none"> <li>false : No</li> <li>true : Yes</li> </ul>                                                                                                                                                                                                                                                                                                                          |

**Note:**

The `collapse_id` parameter is subject to the following restrictions:

This parameter currently cannot be customized. Only `collapse_id` values generated by Tencent Push Notification Service can be used.

This parameter is supported only for the Tencent Push Notification Service channel, APNs channel, Mi channel, Meizu channel, and Huawei devices on EMUI 10 or later.

For the Huawei channel, you must use [intent](#) to carry custom parameters to implement message overriding. If you use `custom_content`, the API layer will block custom parameters.

Currently, the OPPO and vivo channels do not support message overriding. When an overriding message is created, delivery to the OPPO and vivo channels can be disabled by setting the `force_collapse` parameter to `false`.

### tag\_rules parameter description

| Parameter              | Type    | Parent Project         | Required | Description                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|---------|------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>tag_items</code> | Array   | <code>tag_rules</code> | Yes      | Tag rule. See <a href="#">tag_items description</a> .                                                                                                                                                                                                                                                                                                                           |
| <code>operator</code>  | String  | <code>tag_rules</code> | Yes      | Operator between elements in the <code>tag_rules</code> array. The operator of the first <code>tag_rules</code> element is invalid data. The operator of the second <code>tag_rules</code> element is the operator between the first and second <code>tag_rules</code> elements, and so on. Valid values:<br><code>OR</code> : OR operation<br><code>AND</code> : AND operation |
| <code>is_not</code>    | Boolean | <code>tag_rules</code> | Yes      | Whether to perform "NOT" operation on the calculation result of the <code>tag_items</code> array.<br><code>true</code> : Yes<br><code>false</code> : No                                                                                                                                                                                                                         |

### tag\_items description

| Parameter           | Type    | Parent Project         | Required | Description                                                                                                                                                      |
|---------------------|---------|------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>tags</code>   | Array   | <code>tag_items</code> | Yes      | Specific tag value in string type, such as <code>tag1</code> and <code>guangdong</code>                                                                          |
| <code>is_not</code> | Boolean | <code>tag_items</code> | Yes      | Whether to perform "NOT" operation on the calculation result of the <code>tags</code> array. Valid values:<br><code>true</code> : Yes<br><code>false</code> : No |

|                |        |           |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------|--------|-----------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tags_operator  | String | tag_items | Yes | Operator for tag in <code>tags</code> . Valid values:<br><code>OR</code> : OR operation<br><code>AND</code> : AND operation                                                                                                                                                                                                                                                                                                                                                         |
| items_operator | String | tag_items | Yes | Operator between elements in the <code>tag_items</code> array. The <code>items_operator</code> of the first <code>tag_items</code> element is invalid. The <code>items_operator</code> of the second <code>tag_items</code> element is the operator between the first and second <code>tag_items</code> elements, and so on. Valid values:<br><code>OR</code> : OR operation<br><code>AND</code> : AND operation<br><b>Note:</b> For different rules, AND takes precedence over OR. |
| tag_type       | String | tag_items | Yes | See <a href="#">tag_type value table</a> .                                                                                                                                                                                                                                                                                                                                                                                                                                          |

**tag\_type value table**

| Tag Name                    | tag_type Value         | Sample Tag           |
|-----------------------------|------------------------|----------------------|
| Custom tag                  | xg_user_define         | tag1, tag2           |
| Application version         | xg_auto_version        | 1.1.0, 1.2.0.1       |
| Device district information | xg_auto_province       | guangdong, shanghai  |
| Active information          | xg_auto_active         | 20200131, 20200201   |
| XG SDK version              | xg_auto_sdkversion     | 1.1.5.2, 1.1.5.3     |
| System language             | xg_auto_systemlanguage | zh, en               |
| Mobile phone brand          | xg_auto_devicebrand    | Mi, vivo             |
| Mobile phone model          | xg_auto_deviceversion  | MI 9 SE, vivo X9Plus |
| Country/Region              | xg_auto_country        | CN, SG               |

**Note:**

For more information about the usage, see [Sample tag push](#).

**channel\_rules parameter description**

| Parameter | Type | Parent Project | Required | Description |
|-----------|------|----------------|----------|-------------|
|-----------|------|----------------|----------|-------------|

|         |         |               |     |                                                                                                                                                                                                                                                                  |
|---------|---------|---------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| channel | String  | channel_rules | Yes | Delivery push channel. Valid values:<br>xg: Tencent Push Notification Service channel<br>hw: Huawei channel<br>xm: Mi channel<br>mz: Meizu channel<br>vivo: vivo channel<br>oppo: OPPO channel<br>apns: APNs channel<br>honor: HONOR channel<br>fcm: FCM channel |
| disable | Boolean | channel_rules | Yes | Whether to disable the channel specified in<br><br>channel<br>, which is enabled by default. Valid values:<br>true: Disable<br>false: Enable                                                                                                                     |

### loop\_param parameter description

| Parameter     | Type    | Parent Project | Required | Description                                                                                                                                                                                                                                                                                                                  |
|---------------|---------|----------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| startDate     | String  | loop_param     | Yes      | Loop interval start date in YYYY-MM-DD format, such as 2019-07-01. You can choose a date in the next 90 days.                                                                                                                                                                                                                |
| endDate       | String  | loop_param     | Yes      | Loop interval end date in YYYY-MM-DD format, such as 2019-07-07. You can choose a date in the next 90 days.                                                                                                                                                                                                                  |
| loopType      | Integer | loop_param     | Yes      | Loop type. Valid values:<br>1 : Daily<br>2 : Weekly<br>3 : Monthly                                                                                                                                                                                                                                                           |
| loopDayIndexs | Array   | loop_param     | Yes      | Daily loop value: [0], indicating the push will be done every day. Weekly loop value: [0-6]; for example, [0, 1, 2] indicates the push will be done on every Sunday, Monday, and Tuesday. Monthly loop value: dates; for example, [1, 10, 20] indicates the push will be done on the 1st, 10th, and 20th days of each month. |
| dayTimes      | Array   | loop_param     | Yes      | Specific push time in HH:MM:SS format. If the value                                                                                                                                                                                                                                                                          |

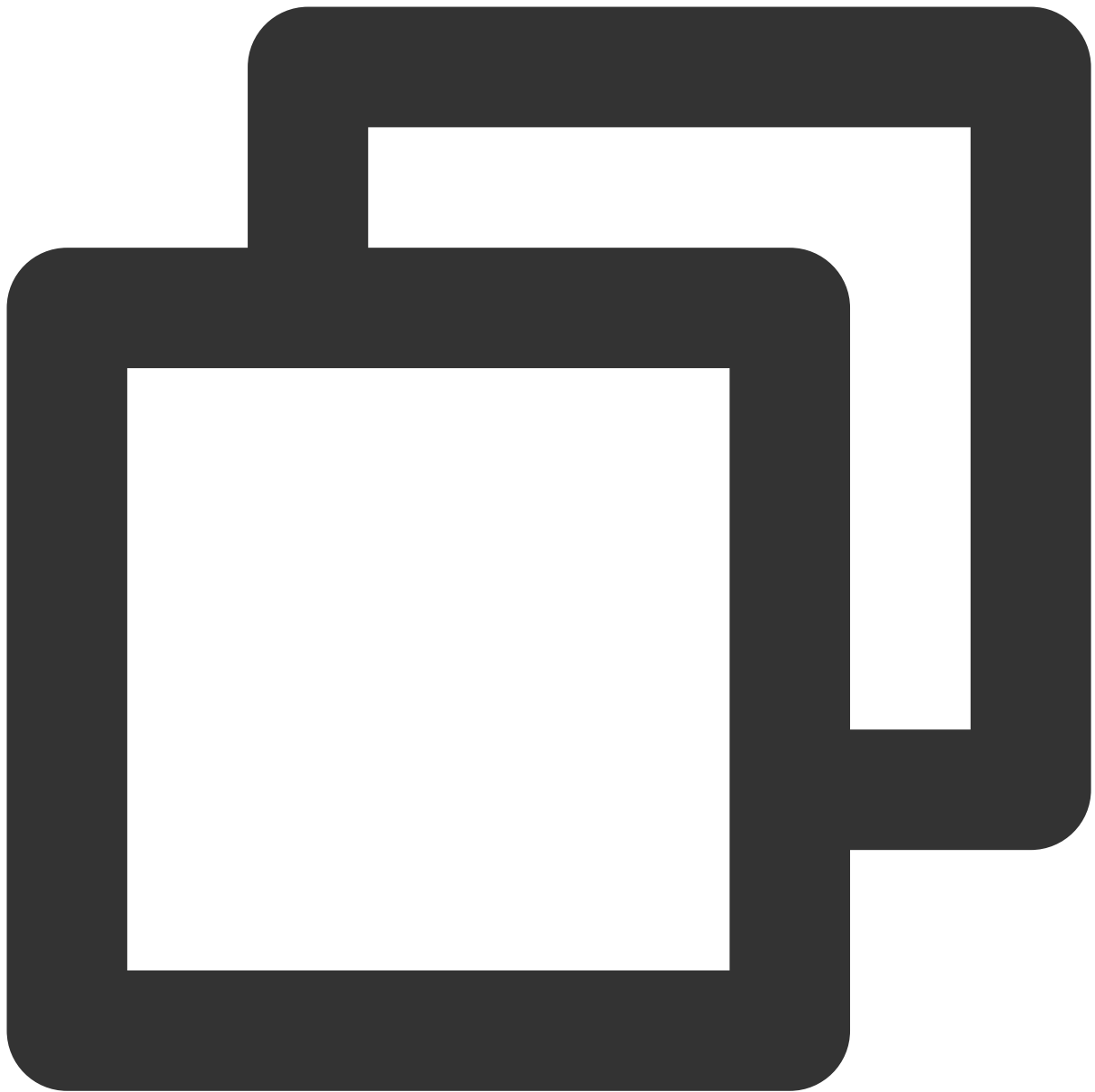
is ["19:00:00", "20:00:00"], it indicates that the push will be done at 19:00 and 20:00 every day.

## Response Parameters

| Parameter          | Type    | Description                                                                                                                                                                                                                                                            |
|--------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| seq                | Integer | Same as the request (if the request does not contain this parameter, this parameter returns <code>0</code> ).                                                                                                                                                          |
| push_id            | String  | Push ID<br><b>Note:</b> If you use the loop push type, multiple <code>pushid</code> values will be returned and placed in an array.                                                                                                                                    |
| invalid_targe_list | Array   | This parameter is returned only when the push target is a token list or a single token and the value of <code>ignore_invalid_token</code> is <code>1</code> . This parameter stores filtered invalid tokens and delivers pushes to devices with valid tokens properly. |
| ret_code           | Integer | Error code. For more information, see the error codes table.                                                                                                                                                                                                           |
| environment        | String  | Push environment specified by the user (only for iOS). Valid values:<br><code>product</code> : production environment<br><code>dev</code> : development environment                                                                                                    |
| err_msg            | String  | Error message when a request error occurs                                                                                                                                                                                                                              |
| result             | String  | When the request is correct:<br>If there is extra data to be returned, the result will be encapsulated in this parameter in JSON format.<br>If there is no extra data, this parameter may not exist.                                                                   |

## Examples

### Android request message for push by account



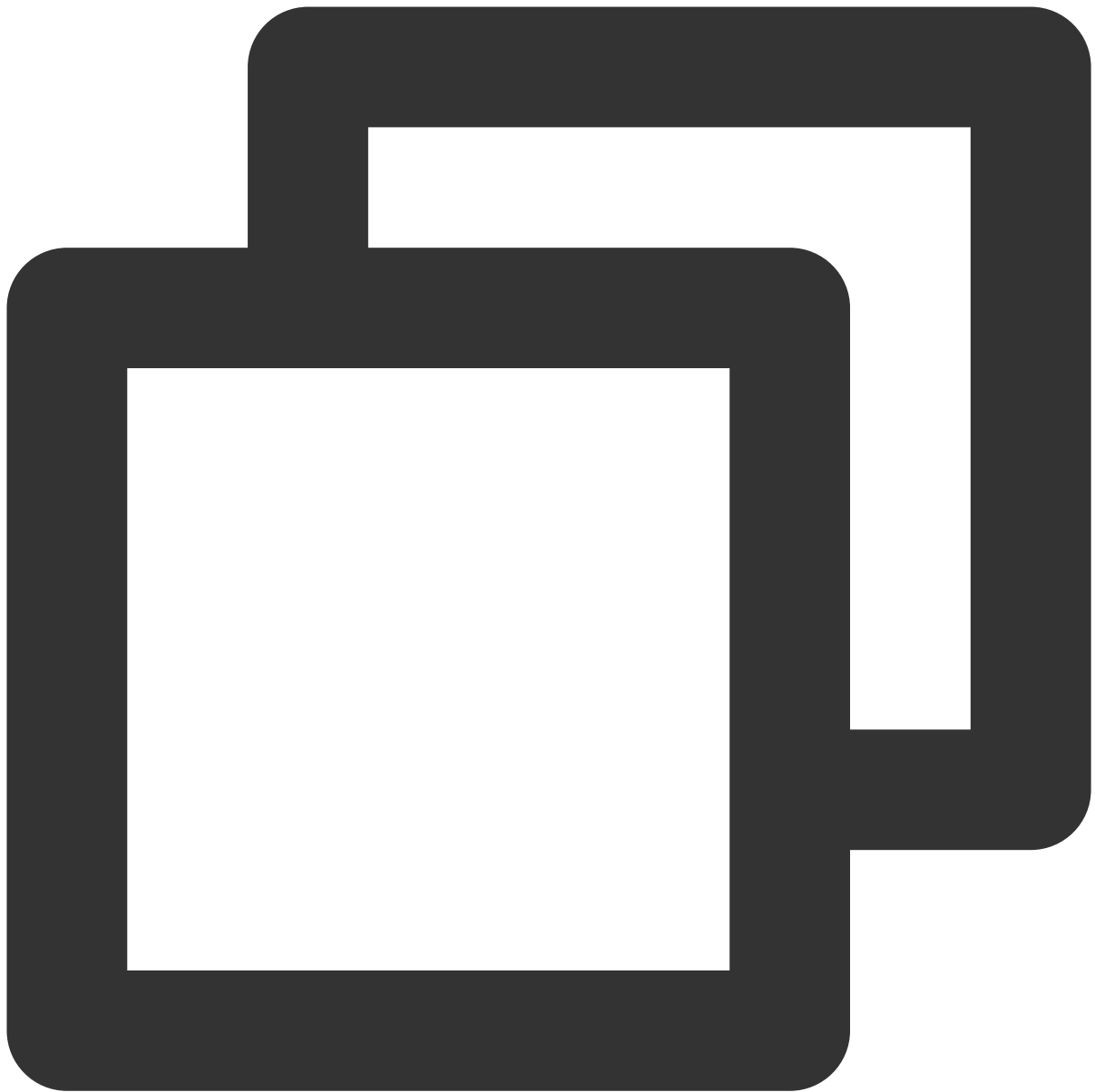
```
{
 "audience_type": "account",
 "account_list": [
 "account1"
],
 "multi_pkg": true,
 "push_speed": 50000,
 "channel_rules": [
 {
 "channel": "mz",
 "disable": true
 }
]
}
```

```
 },
 {
 "channel": "xm",
 "disable": false
 }
],
 "message_type": "notify",
 "message": {
 "title": "Test title",
 "content": "Test content",
 "xg_media_resources": "xxx1" , // Enter the URL of rich media elements, such as
 "xg_media_audio_resources": "xxx", // Enter the URL of audio rich media elements
 "accept_time": [
 {
 "start": { // Period start time
 "hour": "13", // Start time in hour. Value range: [0,24)
 "min": "00" // Start time in minute. Value range: [0,60)
 },
 "end": { // Period end time
 "hour": "14", // End time in hour. Value range: [0,24)
 "min": "00" // End time in minute. Value range: [0,60)
 }
 }
],
 {
 "start": {
 "hour": "00",
 "min": "00"
 },
 "end": {
 "hour": "09",
 "min": "00"
 }
 }
],
 "android": {
 "n_ch_id": "default_message",
 "n_ch_name": "default notification",
 "n_id": 0,
 "builder_id": 0,
 "ring": 1,
 "ring_raw": "ring",
 "badge_type": -1,
 "vibrate": 1,
 "lights": 1,
 "clearable": 1,
 "icon_type": 0,
```



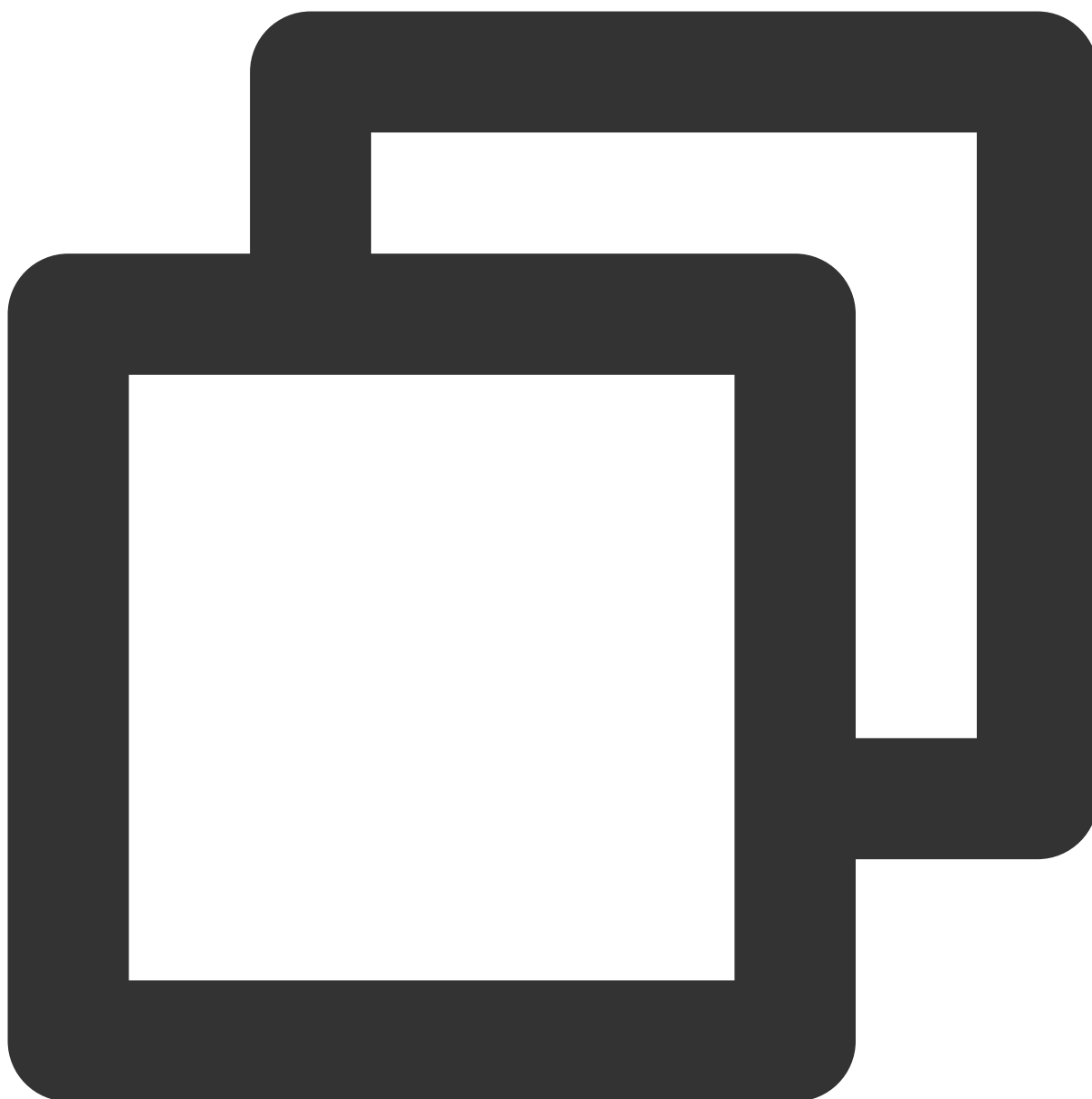
```
 "icon_res": "xg",
 "style_id": 1,
 "small_icon": "xg",
 "action": {
 "action_type": 1, // Action type; 1. Open activity or applic
 "activity": "xxx",
 "aty_attr": { // Activity attribute, only for action_type=1
 "if": 0, // Intent's flag attribute
 "pf": 0 // PendingIntent's flag attribute
 },
 "browser": {
 "url": "xxxx ", // Only HTTP and HTTPS URLs are sup
 "confirm": 1 // Whether user's confirmation is requ
 },
 "intent": "xxx" // The SDK must be version 1.0.9 or later.
 },
 "custom_content": "{\\"key\\":\\"value\\"}"
 }
}
```

## Response message for push by account



```
{
 "seq": 0,
 "environment": "product",
 "ret_code": 0,
 "push_id": "3895624686"
}
```

**iOS request message for push to a single device**

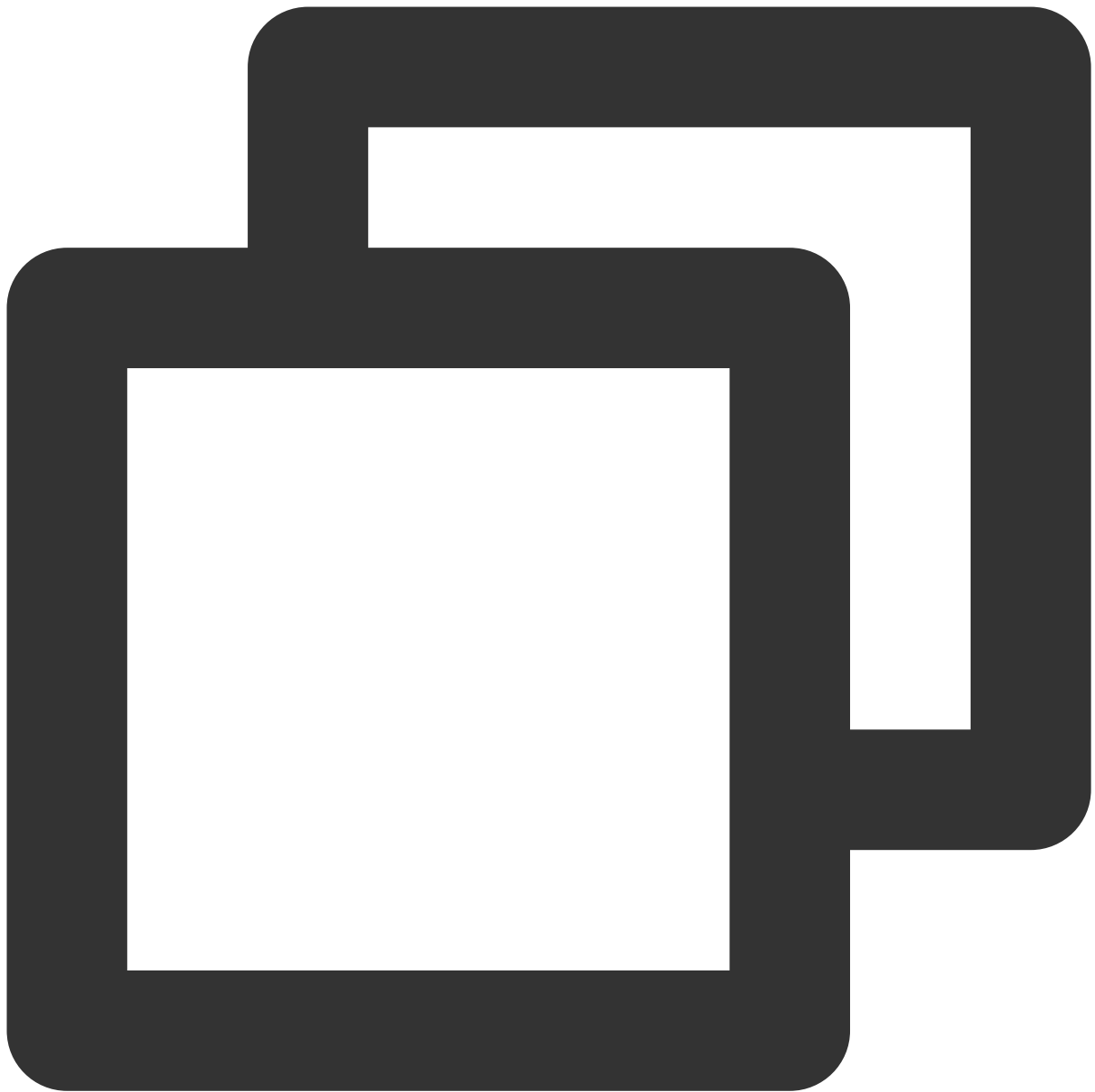


```
{
 "audience_type": "token",
 "environment": "dev",
 "token_list": ["05da87c0ae*****fa9e08d884aada5bb2"],
 "message_type": "notify",
 "message": {
 "title": "Push title",
 "content": "Push content",
 "ios": {
 "aps": {
 "alert": {
```

```
 "subtitle": "Push subtitle"
 },
 "badge_type": -2,
 "sound": "Tassel.wav",
 "category": "INVITE_CATEGORY"

 },
 "custom_content": "{\\"key\\":\\"value\\"}"
 }
}
```

## Response message for push to a single device

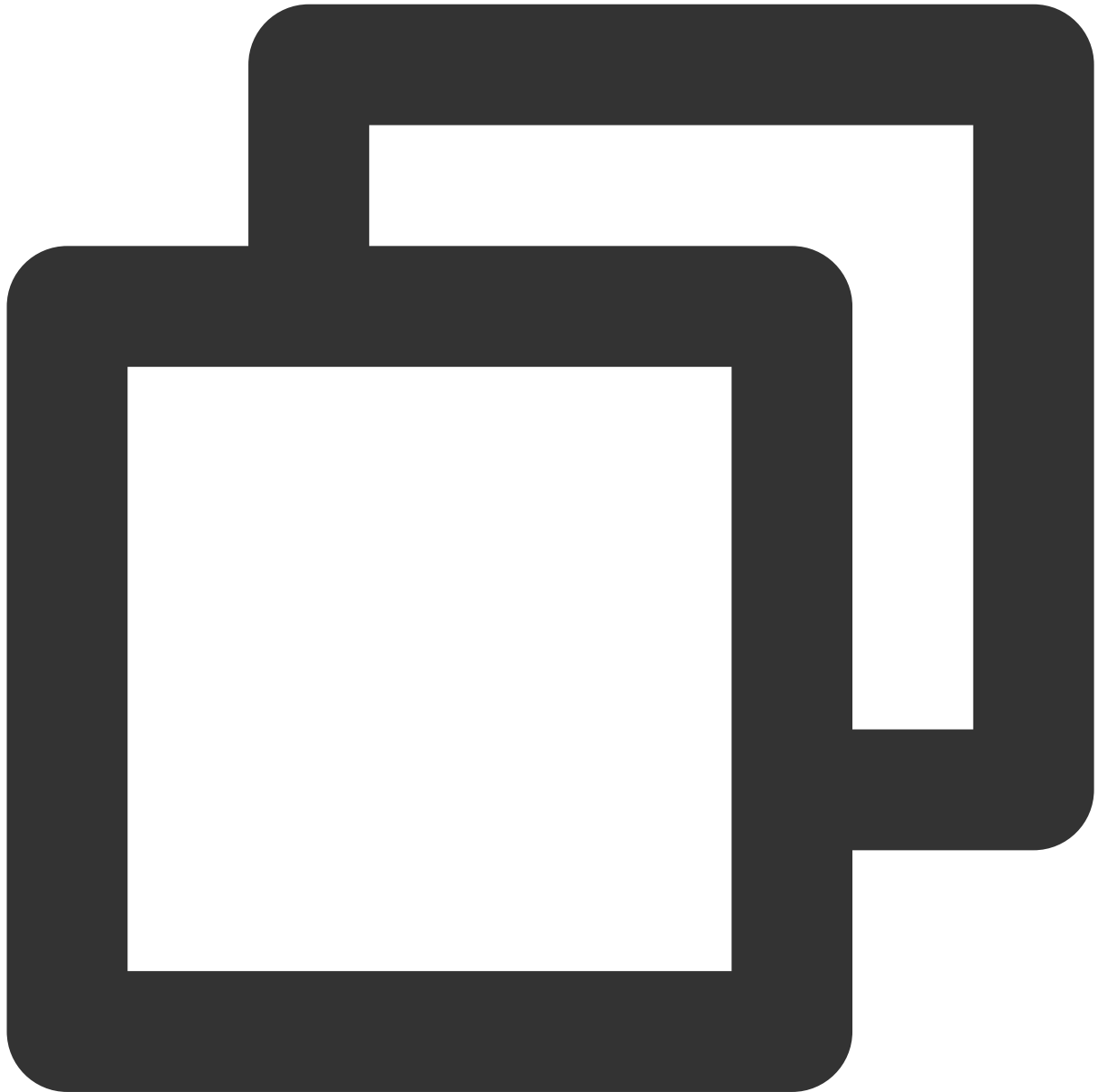


```
{
 "seq": 0,
 "push_id": "427184209",
 "ret_code": 0,
 "environment": "dev",
 "err_msg": "",
 "result": "[0]"
}
```

### Push by tag (using tag\_rules)

**Sample 1: Push messages to male users who were active on April 8, 2020 in Guangdong or Hunan province**

Expression: (xg\_auto\_province.guangdong OR xg\_auto\_province.hunan) AND xg\_auto\_active.20200408 AND xg\_user\_define.male



```
{
 "audience_type": "tag",
 "tag_rules": [
 {
 "tag_items": [
 {
```

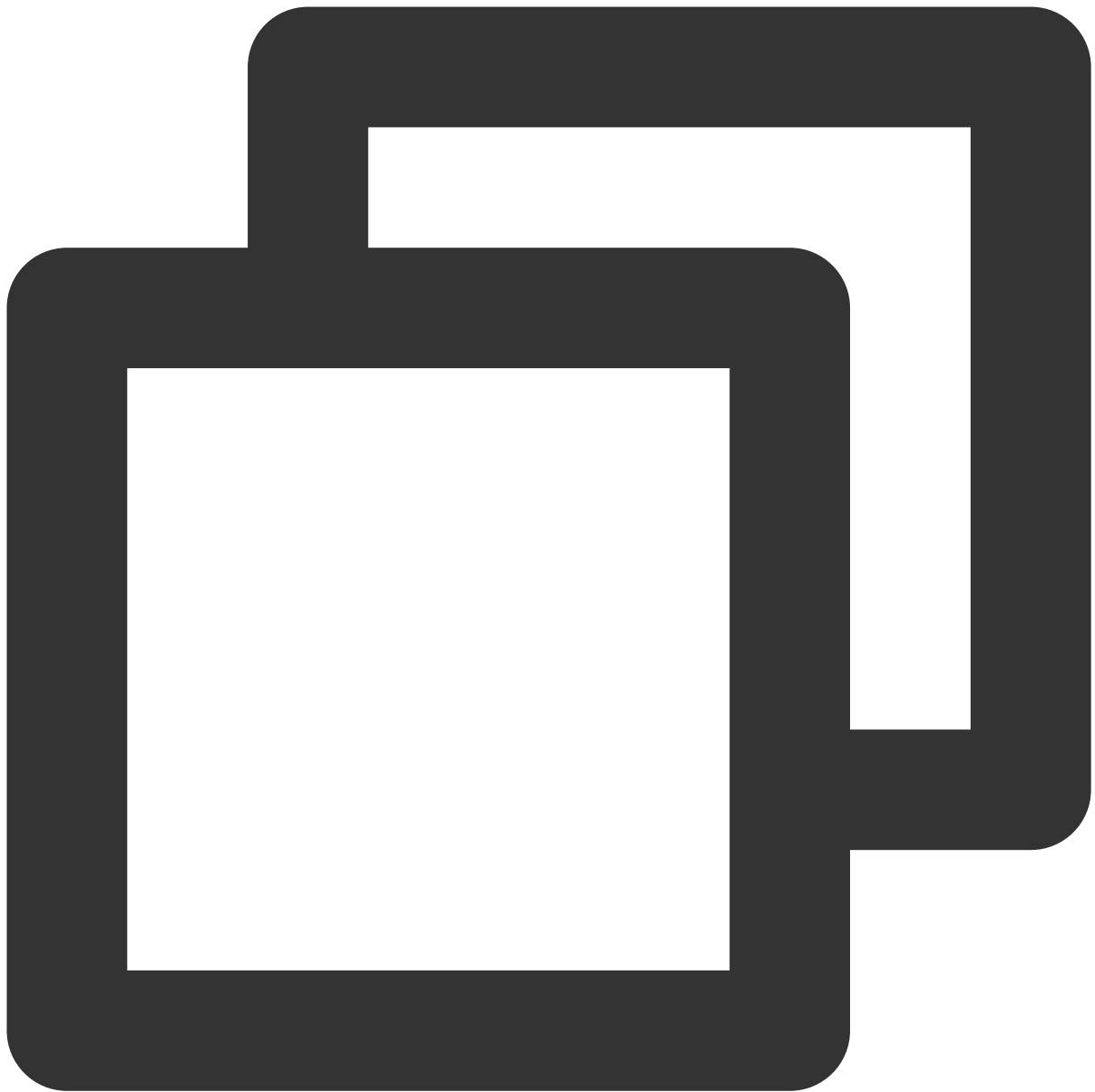
```

 "tags": [
 "guangdong",
 "hunan"
],
 "is_not": false, //Whether to perform the "NOT" operation on
 "tags_operator": "OR", //Operator for tags in `tags`
 "items_operator": "OR", //Operator between elements in `tag_items`
 "tag_type": "xg_auto_province" //Type of tags in `tags`
 },
 {
 "tags": [
 "20200408"
],
 "is_not": false,
 "tags_operator": "OR",
 "items_operator": "AND",
 "tag_type": "xg_auto_active"
 },
 {
 "tags": [
 "male"
],
 "is_not": false,
 "tags_operator": "OR",
 "items_operator": "AND",
 "tag_type": "xg_user_define"
 }
],
"operator": "OR",
"is_not": false
}
]
}

```

### Sample 2: Push messages to Huawei users who were active in the last 3 days on an application version other than 1.0.2

Expression: (xg\_auto\_active.20200406 OR xg\_auto\_active.20200407 OR xg\_auto\_active.20200408) AND (NOT xg\_auto\_version.1.0.2) AND xg\_auto\_devicebrand.huawei



```
{
 "audience_type": "tag",
 "tag_rules": [
 {
 "tag_items": [
 {
 "tags": [
 "20200406",
 "20200407",
 "20200408"
]
 }
]
 }
]
}
```



```
 "is_not": false, //Whether to perform the "NOT" operation on
 "tags_operator": "OR", //Operator for tags in `tags`
 "items_operator": "OR", //Operator between elements in `tag_items`
 "tag_type": "xg_auto_active" //Type of tags in `tags`
 },
 {
 "tags": [
 "1.0.2"
],
 "is_not": true,
 "tags_operator": "OR",
 "items_operator": "AND",
 "tag_type": "xg_auto_version"
 },
 {
 "tags": [
 "huawei"
],
 "is_not": false,
 "tags_operator": "OR",
 "items_operator": "AND",
 "tag_type": "xg_auto_devicebrand"
 }
],
"operator": "OR",
"is_not": false
}
]
```

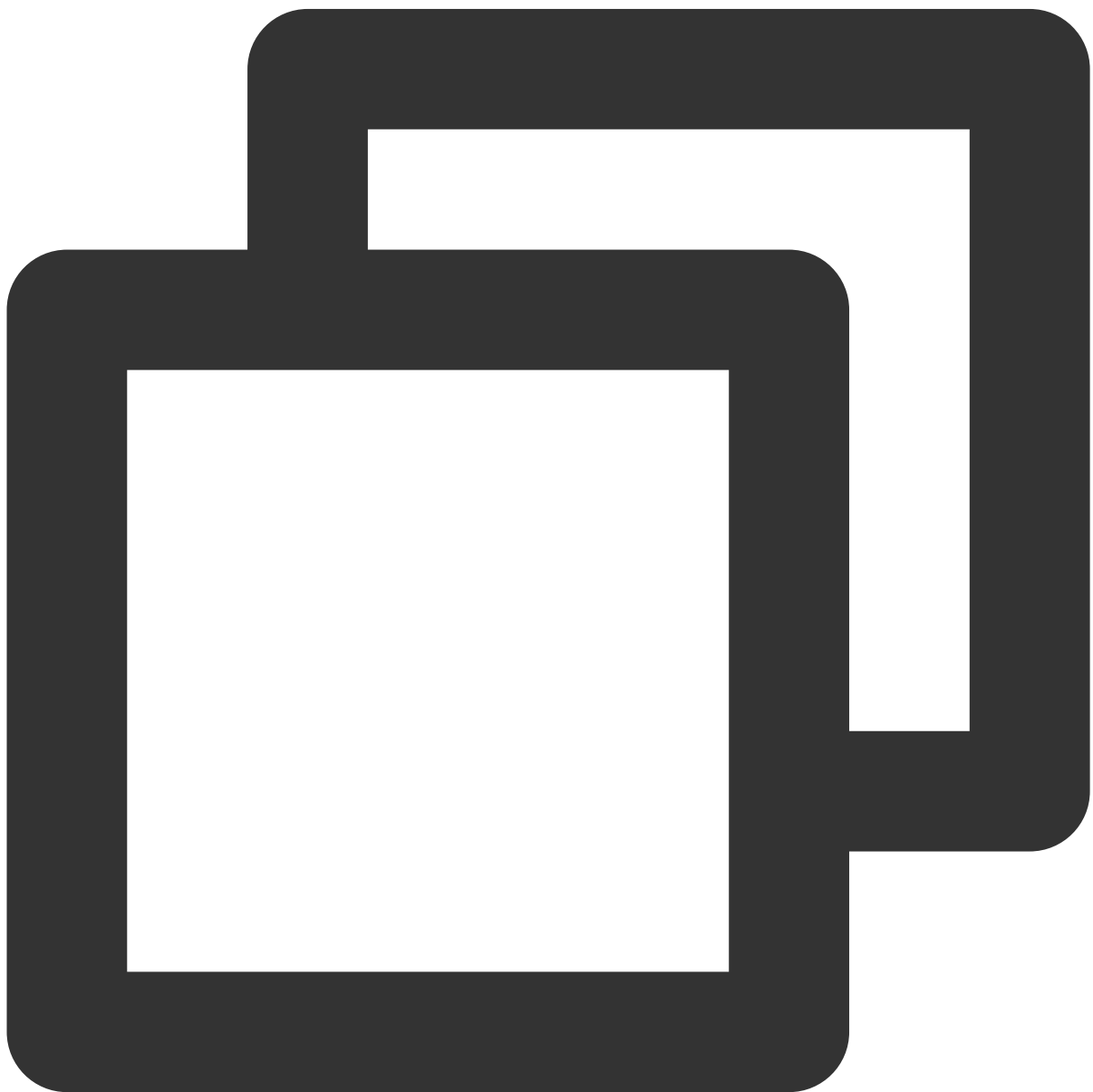
# Creating a Push Plan

Last updated : 2024-01-17 14:24:51

## API Description

Request method: POST

Request address:



```
Service address/v3/push/plan/add_plan_push
```

API service URLs correspond to service access points one to one. Please select the [service URL](#) corresponding to the service access point of your application.

**Note:**

Call rate limit: 200 calls/day.

## Request Parameters

| Parameter    | Type   | Required | Description                                                   |
|--------------|--------|----------|---------------------------------------------------------------|
| planName     | string | Yes      | Push plan name, which can contain up to 60 letters            |
| planDescribe | string | Yes      | Push plan description, which can contain up to 300 characters |

## Response Parameters

| Parameter | Type   | Required | Description                                                                  |
|-----------|--------|----------|------------------------------------------------------------------------------|
| retCode   | string | Yes      | Return status code                                                           |
| errMsg    | string | Yes      | Error message                                                                |
| result    | object | Yes      | Please see the description of <code>PlanRecordData</code> in the table below |

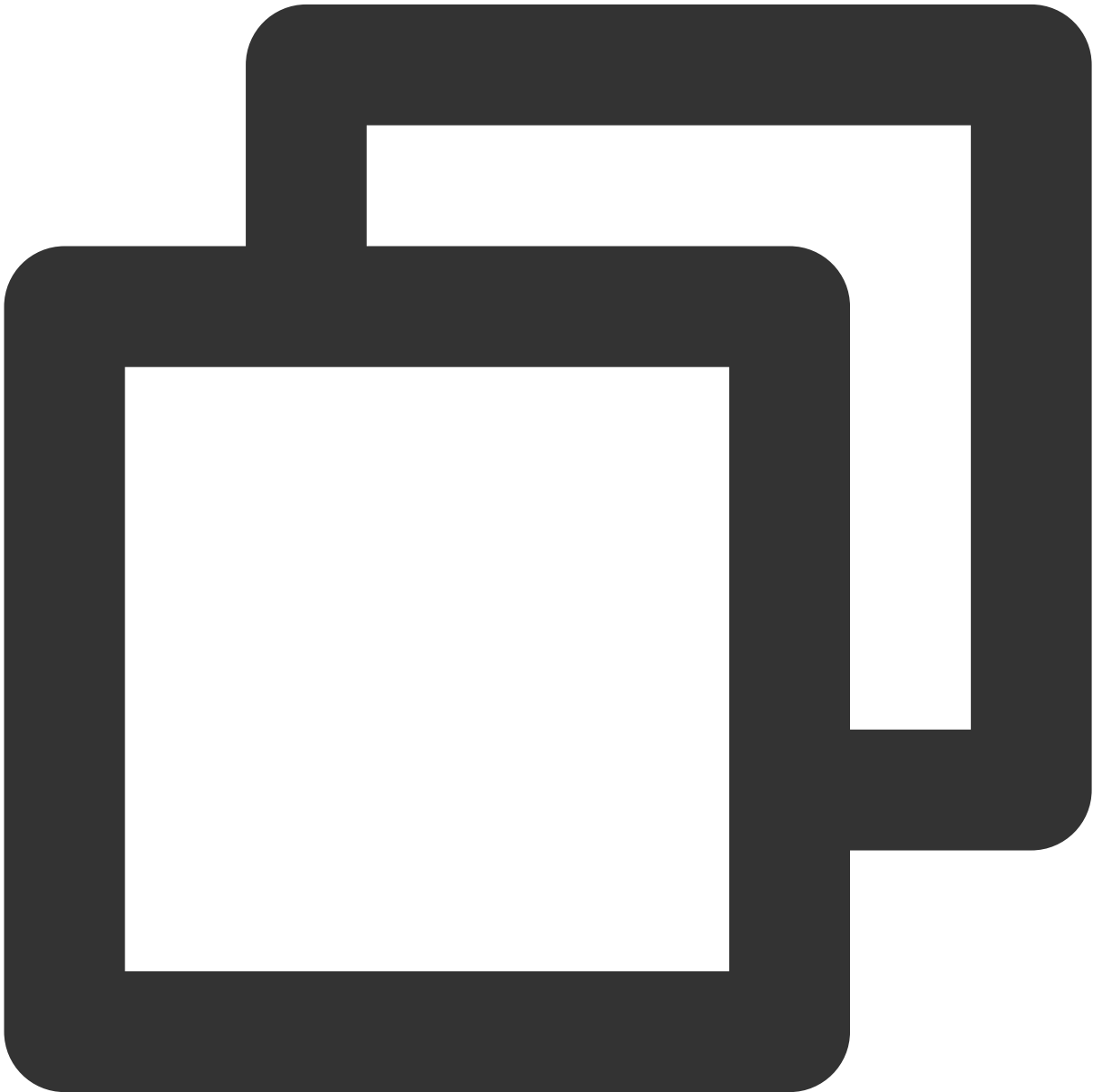
**PlanRecordData**

| Parameter      | Type   | Required | Description                                                   |
|----------------|--------|----------|---------------------------------------------------------------|
| planId         | string | Yes      | Push plan ID generated by TPNS                                |
| planName       | string | Yes      | Push plan name, which can contain up to 23 letters            |
| planDescribe   | string | Yes      | Push plan description, which can contain up to 300 characters |
| planPushSource | string | Yes      | -                                                             |

|           |        |     |                                   |
|-----------|--------|-----|-----------------------------------|
| createdAt | uint32 | Yes | Creation time in timestamp format |
| updateAt  | uint32 | Yes | Update time in timestamp format   |

## Examples

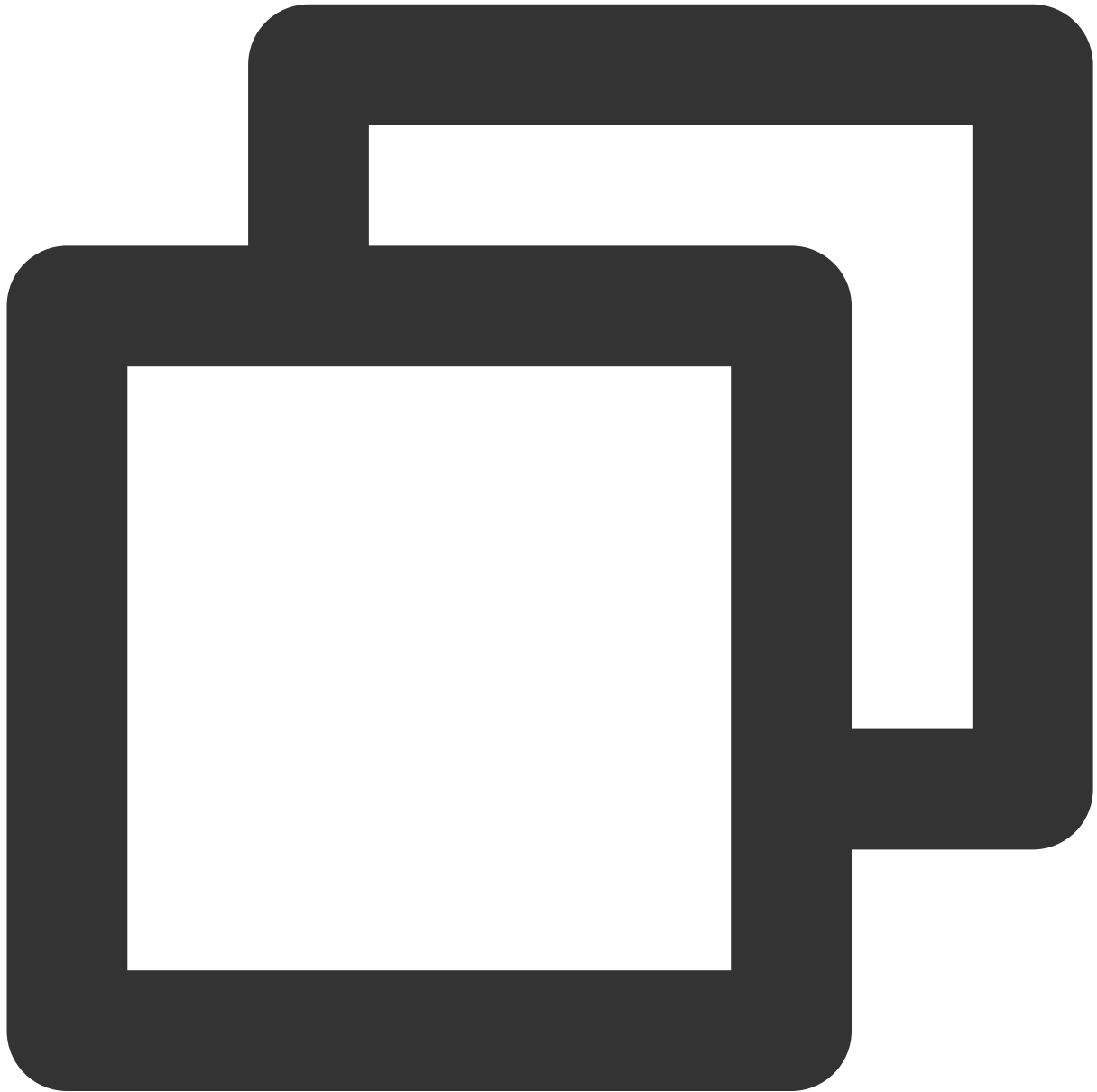
### Sample request



```
{
```

```
"planName": "TPNS_TEST123",
"planDescribe": "plan_test"
}
```

### Sample response



```
{
 "retCode": 0,
 "ErrMsg": "save success",
 "result": {
 "planId": "48",
```

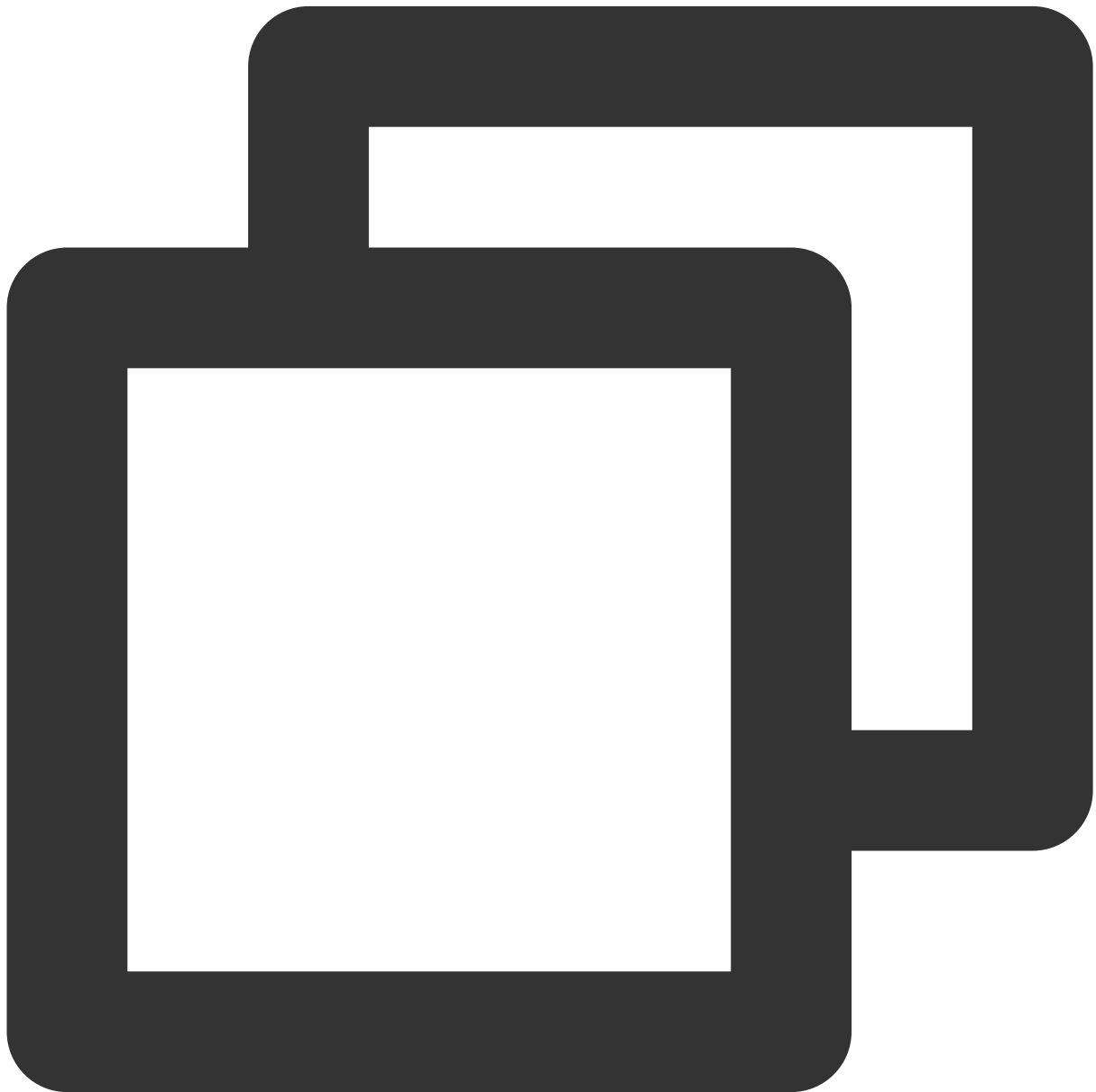
```
 "planName": "TPNS_TEST123",
 "planDescribe": "plan_test",
 "planPushSource": "api",
 "createdAt": 1593314408,
 "updatedAt": 1593314408
 }
}
```

# Account Package Upload API

Last updated : 2024-01-17 14:24:51

## API Description

**Request method:** POST



Service URL/v3/push/package/upload

API service URLs correspond to service access points one to one. Please select the [service URL](#) corresponding to the service access point of your application.

**Feature:** you can upload a package of multiple accounts and push to the accounts in batches. The two main APIs used are the account package upload API and the account package push API.

**Note:**

Account package file name: [1, 100] characters

Account package format and size: `.zip` , `.txt` , or `.csv` file within 100 MB

`.zip` file requirements: can contain single `.txt` or `.csv` files but not folders

`.txt` file requirements: encoded in UTF-8; one account ([2, 100] characters) per row

`.csv` file requirements: one column only; one account ([2, 100] characters) per row

## Request Parameters

| Parameter | Type      | Required | Description                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------|-----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| file      | form-data | Yes      | Account package format and size: <code>.zip</code> , <code>.txt</code> , or <code>.csv</code> file within 100 MB<br><code>.zip</code> file requirements: can contain single <code>.txt</code> or <code>.csv</code> files but not folders<br><code>.txt</code> file requirements: encoded in UTF-8; one account ([2, 100] characters) per row<br><code>.csv</code> file requirements: one column only; one account ([2, 100] characters) per row |

## Response Parameters

| Parameter | Type    | Required | Description                                                                                                                                                                               |
|-----------|---------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| retCode   | Integer | Yes      | Error code                                                                                                                                                                                |
| errMsg    | String  | Yes      | Error message of a request error                                                                                                                                                          |
| uploadId  | Integer | Yes      | When a file is uploaded, a positive integer is returned, which represents the ID of the uploaded file ( <code>uploadId</code> ). It is provided to the push API for account package push. |

## Sample Request



Python3

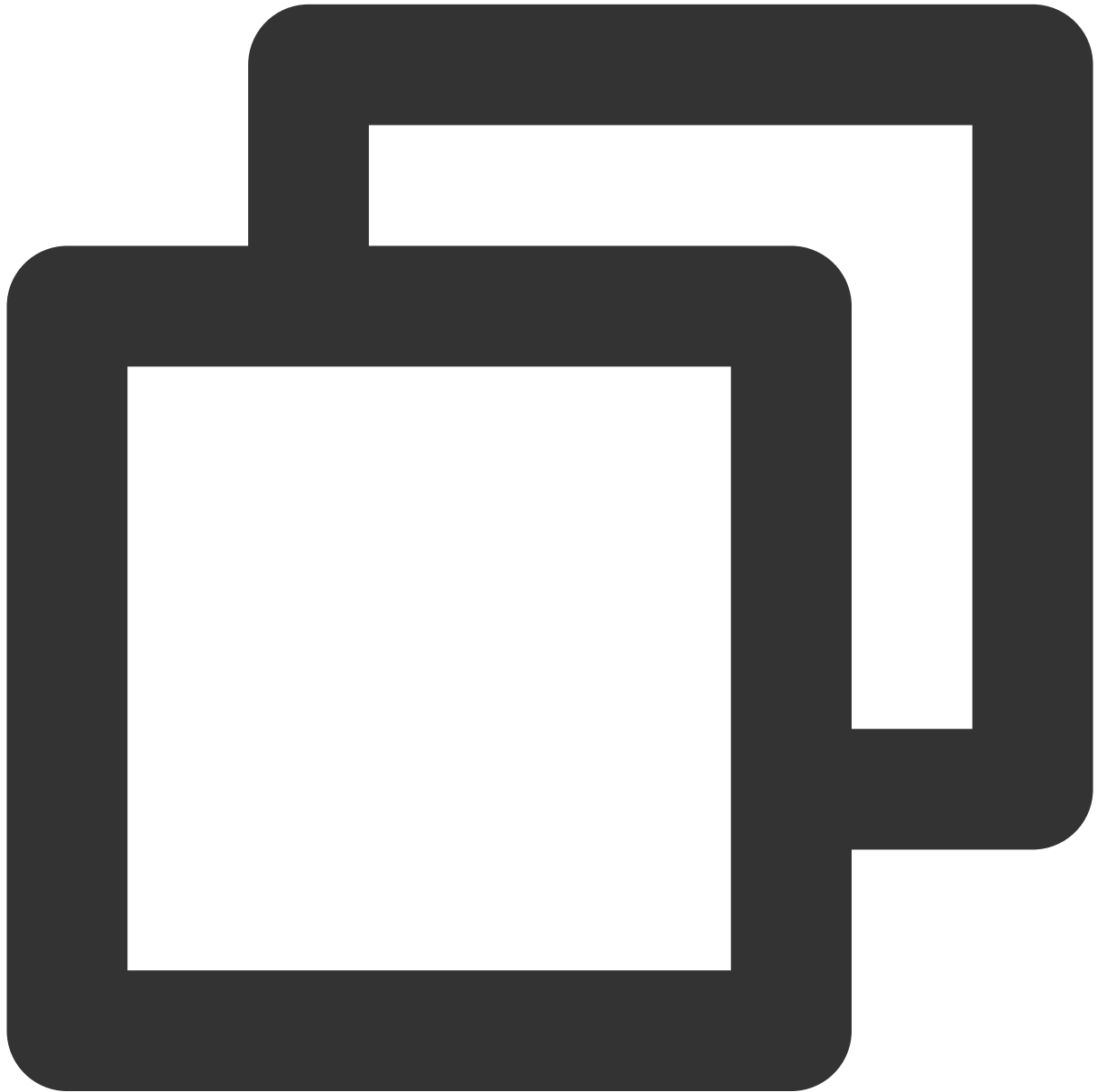
Golang

C#

PHP

JAVA

C++

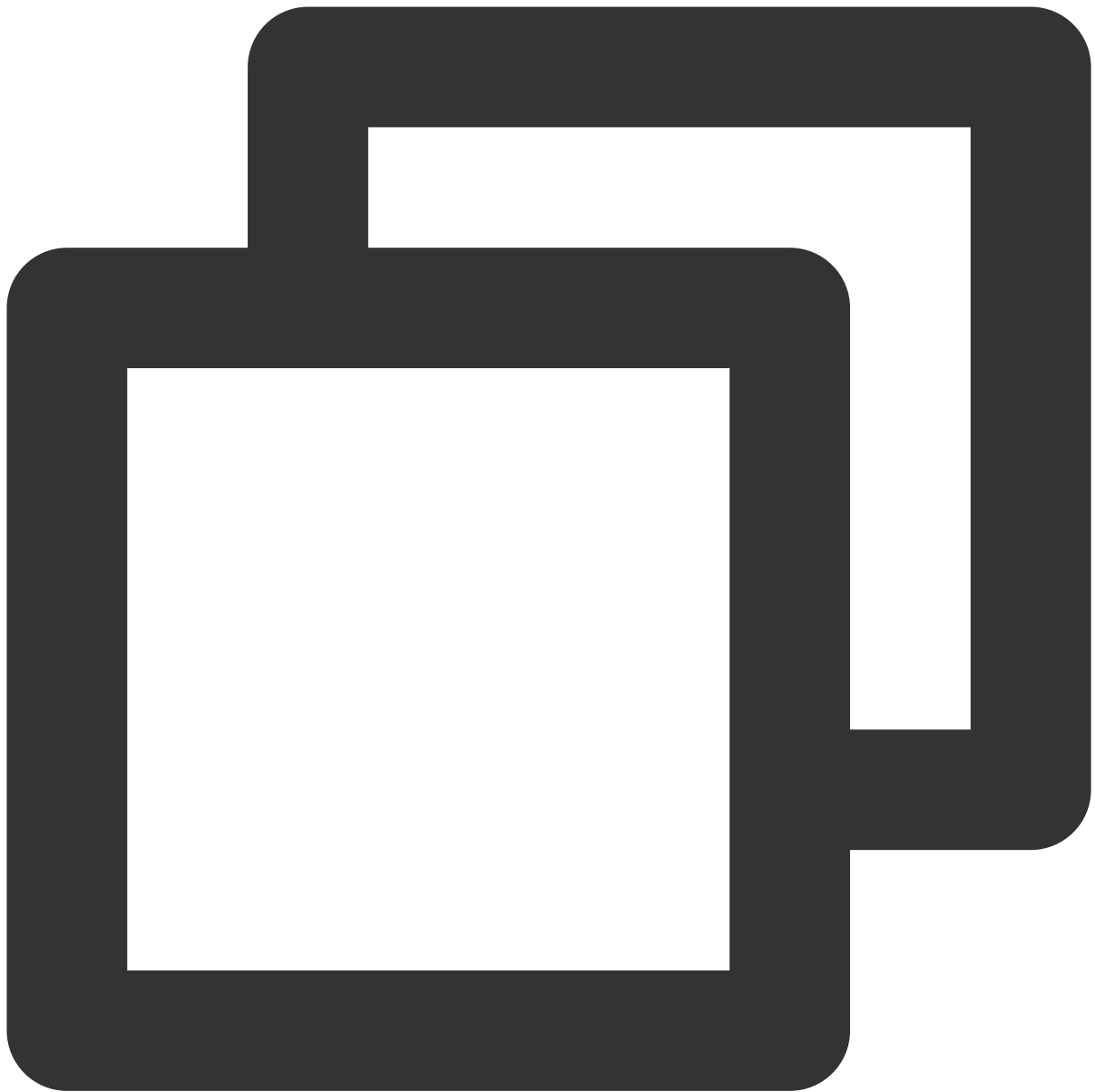


```
import base64
from pip._vendor import requests
from pip._vendor.urllib3 import encode_multipart_formdata
```

```
def upload(url, filePath, accessId, secret, data={}, header={}):
 openFile = open(filePath, 'rb')
 data['file'] = (openFile.name, openFile.read())
 encode_data = encode_multipart_formdata(data)
 data = encode_data[0]
 header['Content-Type'] = encode_data[1]
 authInfo = accessId + ":" + secret

 header['Authorization'] = "Basic " + str(base64.b64encode(bytes(authInfo, encoding='utf-8')))

 r = requests.post(url, headers=header, data=data)
 print(r.json())
```



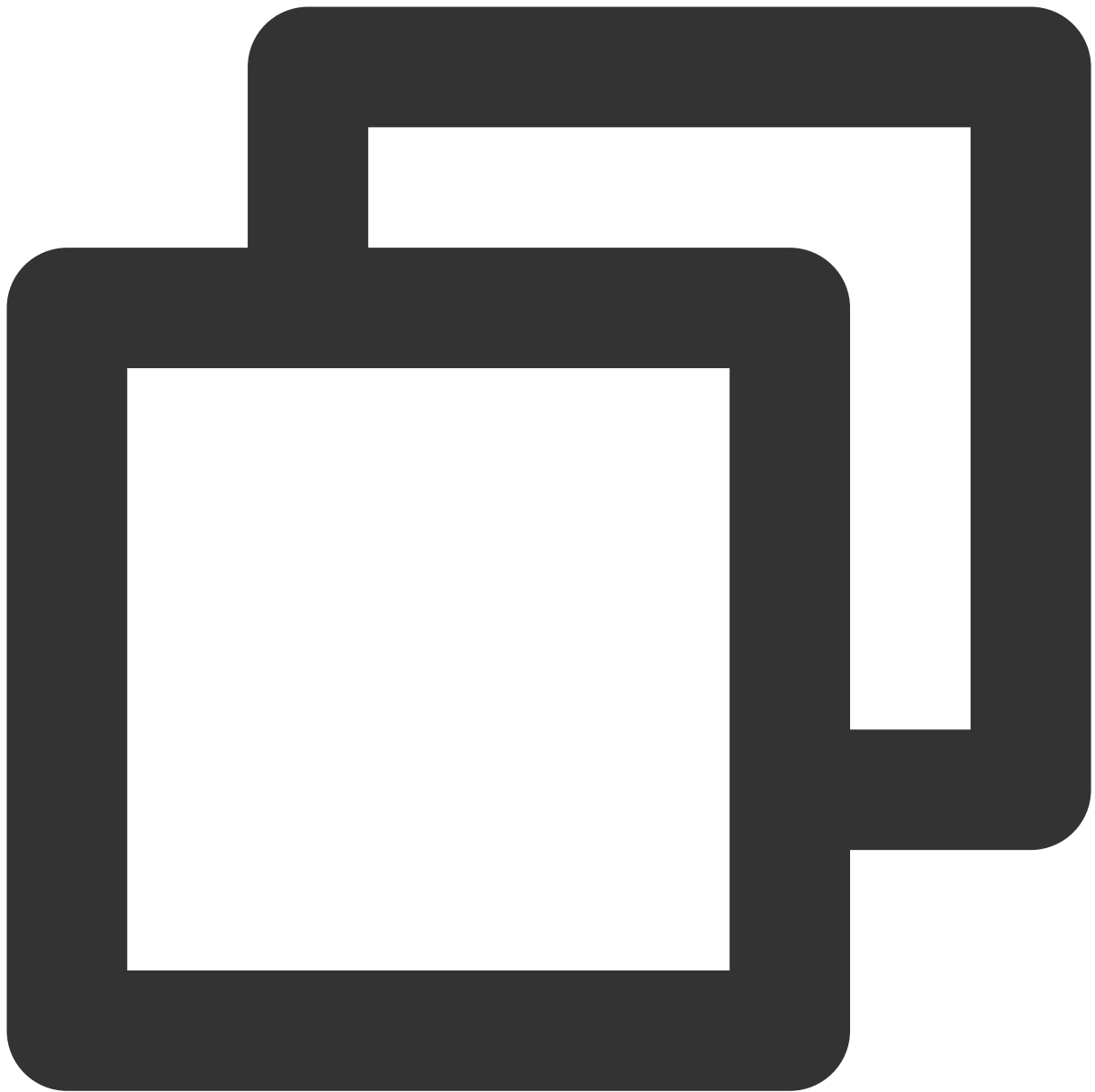
```
func Upload(url string, filePath string, accessId string, secret string)(resp string, err error) {
 fp, err := os.Open(filePath)
 if err != nil {
 return resp, err
 }
 defer fp.Close()
 body := &bytes.Buffer{}
 writer := multipart.NewWriter(body)
 defer writer.Close()
 part, err := writer.CreateFormFile("file", filepath.Base(filePath))
 if err != nil {
```

```
 return resp, err
 }
 io.Copy(part, fp)
 writer.Close()
 httpReq, err := http.NewRequest(http.MethodPost, url, body)
 if err != nil {
 return resp, err
 }

 httpReq.Header.Add("Content-Type", writer.FormDataContentType())

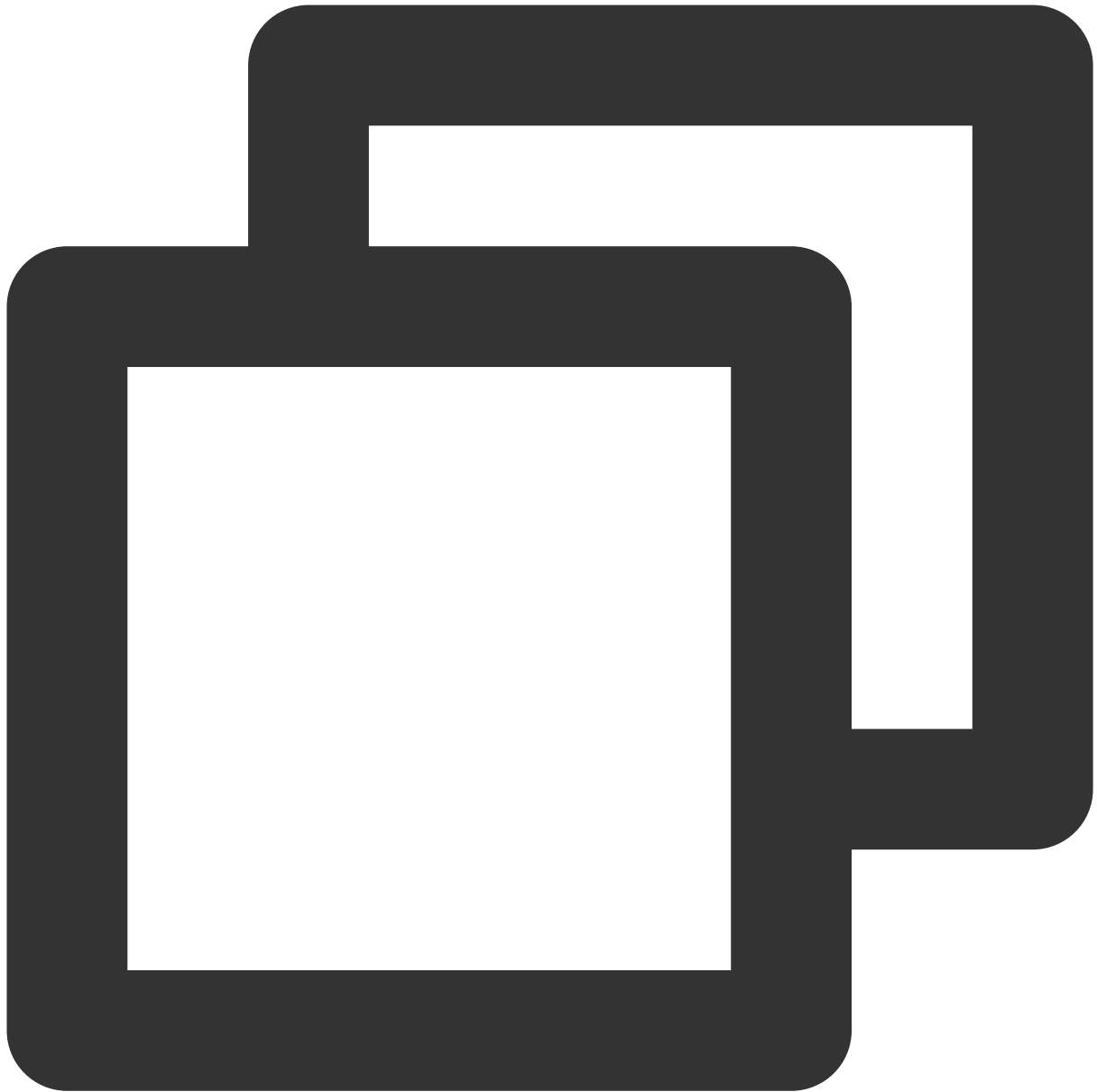
 authInfo := base64.StdEncoding.EncodeToString([]byte(accessId + ":" + secret))
 httpReq.Header.Add("Authorization", fmt.Sprintf("Basic %s", authInfo))
 cli := &http.Client{}
 httpResp, err := cli.Do(httpReq)
 if err != nil {
 return resp, err
 }
 defer httpResp.Body.Close()
 data, err := ioutil.ReadAll(httpResp.Body)
 if err != nil {
 return resp, err
 }
 if httpResp.StatusCode != http.StatusOK {
 return resp, fmt.Errorf("response error, status: %s, body: %s", httpResp.St
 }

 resp = string(data)
 return resp, nil
}
```



```
public string Upload(string url, string filePath, uint accessId, string sec
{
 var tmp = accessId.ToString() + ":" + secretKey;
 var sign = System.Convert.ToBase64String(System.Text.Encoding.UTF8.GetB
 MultipartFormDataContent form = new MultipartFormDataContent();
 var content = new StreamContent(new FileStream(filePath, FileMode.Open)
 content.Headers.ContentDisposition = new ContentDispositionHeaderValue(
 {
 Name = "file",
 FileName = Path.GetFileName(filePath)
 });
};
```

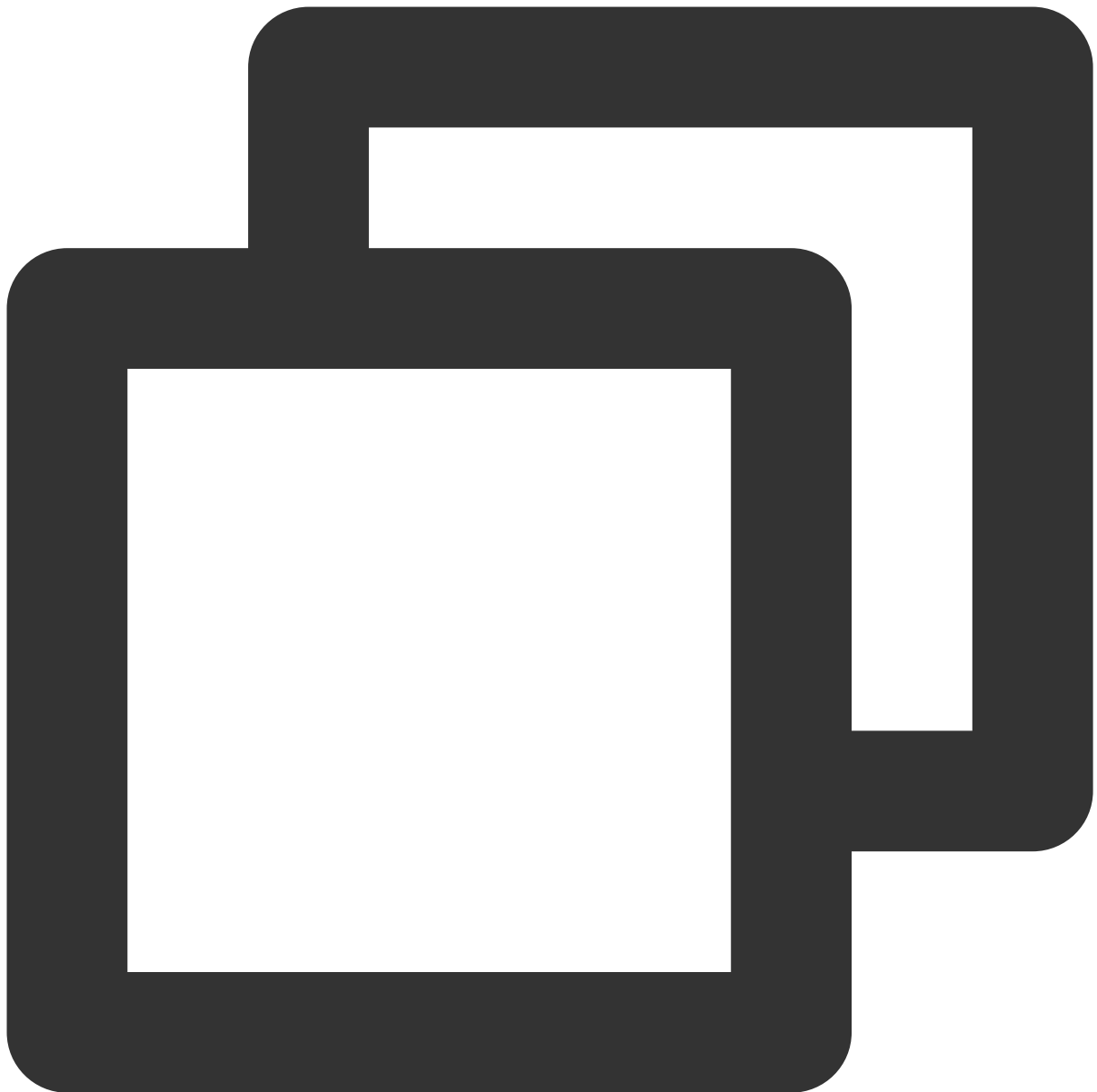
```
form.Add(content);
using(HttpClient client = new HttpClient())
{
 client.DefaultRequestHeaders.Add("Authorization","Basic " + sign);
 client.DefaultRequestHeaders.ExpectContinue = true;
 var response = (client.PostAsync(url, form)).Result;
 var result = response.Content.ReadAsStringAsync().Result;
 if (response.StatusCode != HttpStatusCode.OK) {
 throw new Exception(result);
 }
 return result;
}
```



```
function upload($url, $file, $accessId, $secretkey) {
 $sign = base64_encode($accessId . ":" . $secretKey);
 $headers = array("Content-type: multipart/form-data", "Authorization: Basic " .
 $cfile = new \\CURLFile($file, 'multipart/form-data', basename($file));
 $options = array(
 CURLOPT_HTTPHEADER => $headers,
 CURLOPT_HEADER => 0,
 CURLOPT_SSL_VERIFYPEER => false,
 CURLOPT_SSL_VERIFYHOST => 0,
 CURLOPT_POST => 1,
 CURLOPT_URL => $url,
```

```
 CURLOPT_RETURNTRANSFER => 1,
 CURLOPT_TIMEOUT => 10000,
 CURLOPT_POSTFIELDS => array("file" => $cfile)
);
 $ch = curl_init();
 curl_setopt_array($ch, $options);
 $ret = curl_exec($ch);
 $error = curl_error($ch);
 $info = curl_getinfo($ch);
 curl_close($ch);
 if ($error != "") {
 throw new \\Exception($error);
 }
 $code = $info["http_code"];
 if ($code != 200) {
 throw new \\Exception("status: " . $code . ", message: " . $ret);
 }
 return $ret;
}
...
```





```
public JSONObject Upload(String url, String filePath, String accessId, String secretId, String secretKey) throws IOException {
 OkHttpClient client = new OkHttpClient();
 File file = new File(filePath);
 RequestBody requestBody = new MultipartBody.Builder()
 .setType(MultipartBody.FORM)
 .addFormDataPart("file", file.getName(),
 RequestBody.create(MediaType.parse("multipart/form-data"),
 file))
 .build();

 String authString = accessId + ":" + secretId + ":" + secretKey;
 byte[] authEncBytes = Base64.encodeBase64(authString.getBytes());
 String authStringEnc = Base64.encodeBase64(authEncBytes);

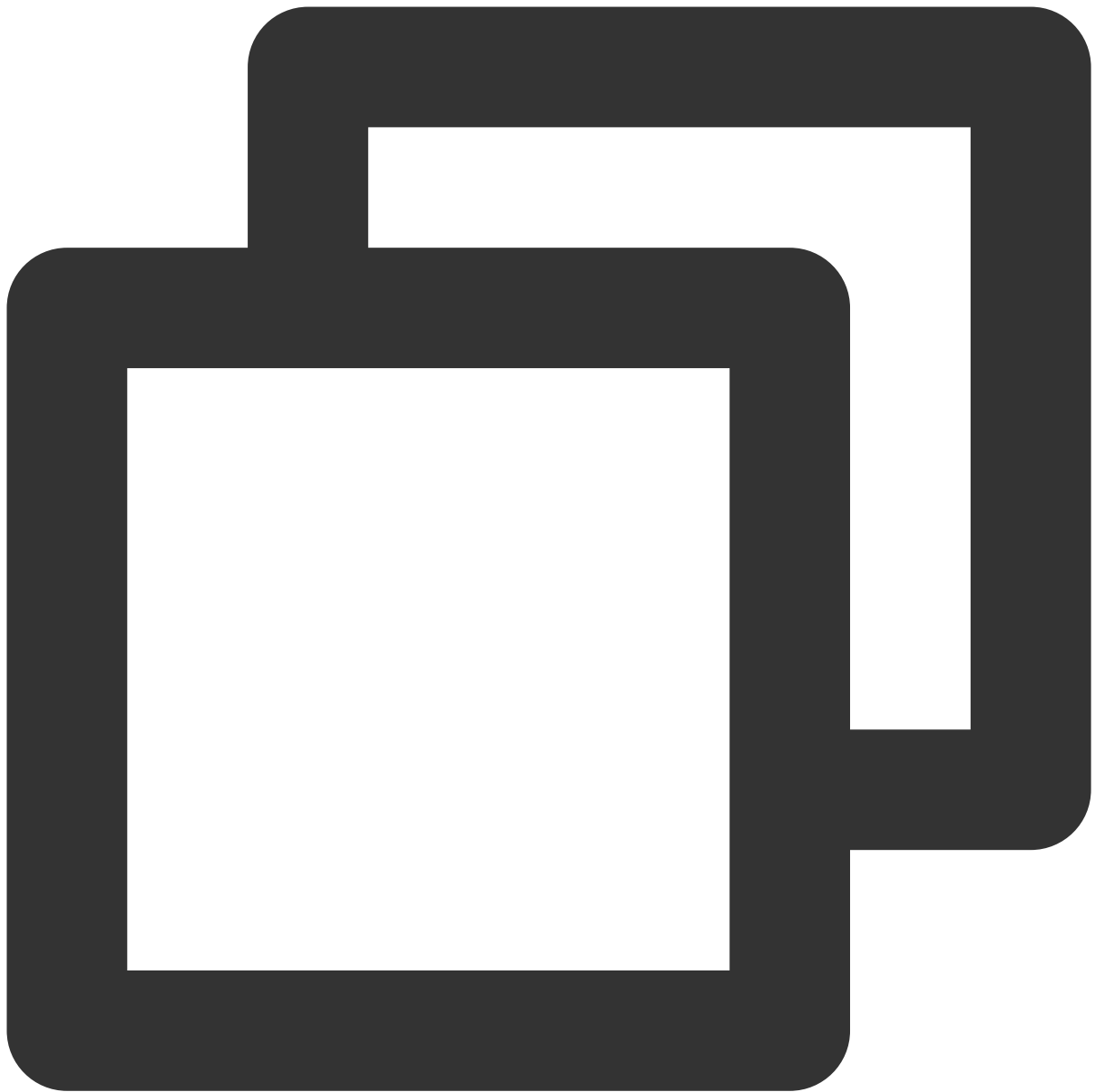
 Request request = new Request.Builder()
 .url(url)
 .method("POST", requestBody)
 .addHeader("Authorization", "tencentcloud-sdk-java " + authStringEnc)
 .build();

 Response response = client.newCall(request).execute();
 return new JSONObject(response.body().string());
}
```

```
String authStringEnc = new String(authEncBytes);

Request.Builder builder = new Request.Builder()
 .url(url)
 .post(requestBody)
 .addHeader("Authorization", "Basic " + authStringEnc);

Request request = builder.build();
JSONObject jsonRet = null;
Response response = null;
try {
 response = client.newCall(request).execute();
 if(response.code() == 200){
 String retMsg = response.body().string();
 jsonRet = new JSONObject(retMsg);
 }
 else{
 jsonRet = new JSONObject();
 jsonRet.put("retCode", 10101);
 jsonRet.put("errMsg", "CallApiError,HttpStatus Code:" + response.co
 }
} catch (IOException e) {
 jsonRet = new JSONObject();
 jsonRet.put("retCode", 10100);
 jsonRet.put("errMsg", e.getMessage());
}finally {
 if (response != null) {
 response.close();
 }
}
return jsonRet;
}
```



```
struct memory {
 char *data;
 size_t size;
 memory(): data(NULL), size(0) {}
 ~memory() {
 if (data) {
 free(data);
 }
 }
};
```

```
static size_t callback(void *data, size_t size, size_t nmemb, void *userp)
{
 size_t realsize = size * nmemb;
 struct memory *mem = (struct memory *)userp;

 char *ptr = (char *)realloc(mem->data, mem->size + realsize + 1);
 if(ptr == NULL)
 return 0;

 mem->data = ptr;
 memcpy(&(mem->data[mem->size]), data, realsize);
 mem->size += realsize;
 mem->data[mem->size] = 0;
 return realsize;
}

std::string upload(const std::string url, const std::string &file, uint32_t accessId,
 CURL *pcurl = curl_easy_init());
if (pcurl == NULL) {
 err.assign("curl_easy_init error");
 return "";
}
struct curl_httppost *post = NULL;
struct curl_httppost *last = NULL;
std::string base;
//for unix/linux
size_t pos = file.find_last_of("/");
if (pos >= 0) {
 base = file.substr(pos + 1);
}
//for windows
pos = file.find_last_of("\\\\");
if (pos >= 0) {
 return base = file.substr(pos + 1);
}
curl_formadd(&post, &last, CURLFORM_PTRNAME, "file", CURLFORM_FILE, file.c_str(),
 CURLFORM_END);

char buf[128];
char dst[128];
char authInfo[256];
snprintf(buf, sizeof(buf), "%u:%s", accessId, secretKey.c_str());
Base64encode(dst, buf, strlen(buf));
snprintf(authInfo, sizeof(authInfo), "Authorization: Basic %s", dst);
```

```
curl_slist *plist = NULL;
plist = curl_slist_append(plist, "Content-Type: multipart/form-data");
plist = curl_slist_append(plist, authInfo);

curl_easy_setopt(pcurl, CURLOPT_CONNECTTIMEOUT, 10);
curl_easy_setopt(pcurl, CURLOPT_TIMEOUT, 10);
curl_easy_setopt(pcurl, CURLOPT_POST, true);

curl_easy_setopt(pcurl, CURLOPT_HTTPHEADER, plist);
curl_easy_setopt(pcurl, CURLOPT_URL, url.c_str());

curl_easy_setopt(pcurl, CURLOPT_HTTPPOST, post);
curl_easy_setopt(pcurl, CURLOPT_WRITEFUNCTION, callback);
struct memory_chunk;
curl_easy_setopt(pcurl, CURLOPT_WRITEDATA, (void *)&chunk);
curl_easy_setopt(pcurl, CURLOPT_NOSIGNAL, 1);

CURLcode res = curl_easy_perform(pcurl);
curl_slist_free_all(plist);

// Check for errors
if (res != CURLE_OK)
{
 char buf[1024];
 snprintf(buf, sizeof(buf), "curl_easy_perform error: %s", curl_easy_strerror(res));
 err.assign(buf);
 curl_easy_cleanup(pcurl);
 return "";
}

long status = 0;
curl_easy_getinfo(pcurl, CURLINFO_RESPONSE_CODE, &status);
curl_easy_cleanup(pcurl);
if (status != 200) {
 char buf[1024];
 snprintf(buf, sizeof(buf), "%ld %s", status, chunk.data);
 err.assign(buf);
 return "";
}

std::string ret;
ret.assign(chunk.data);
```

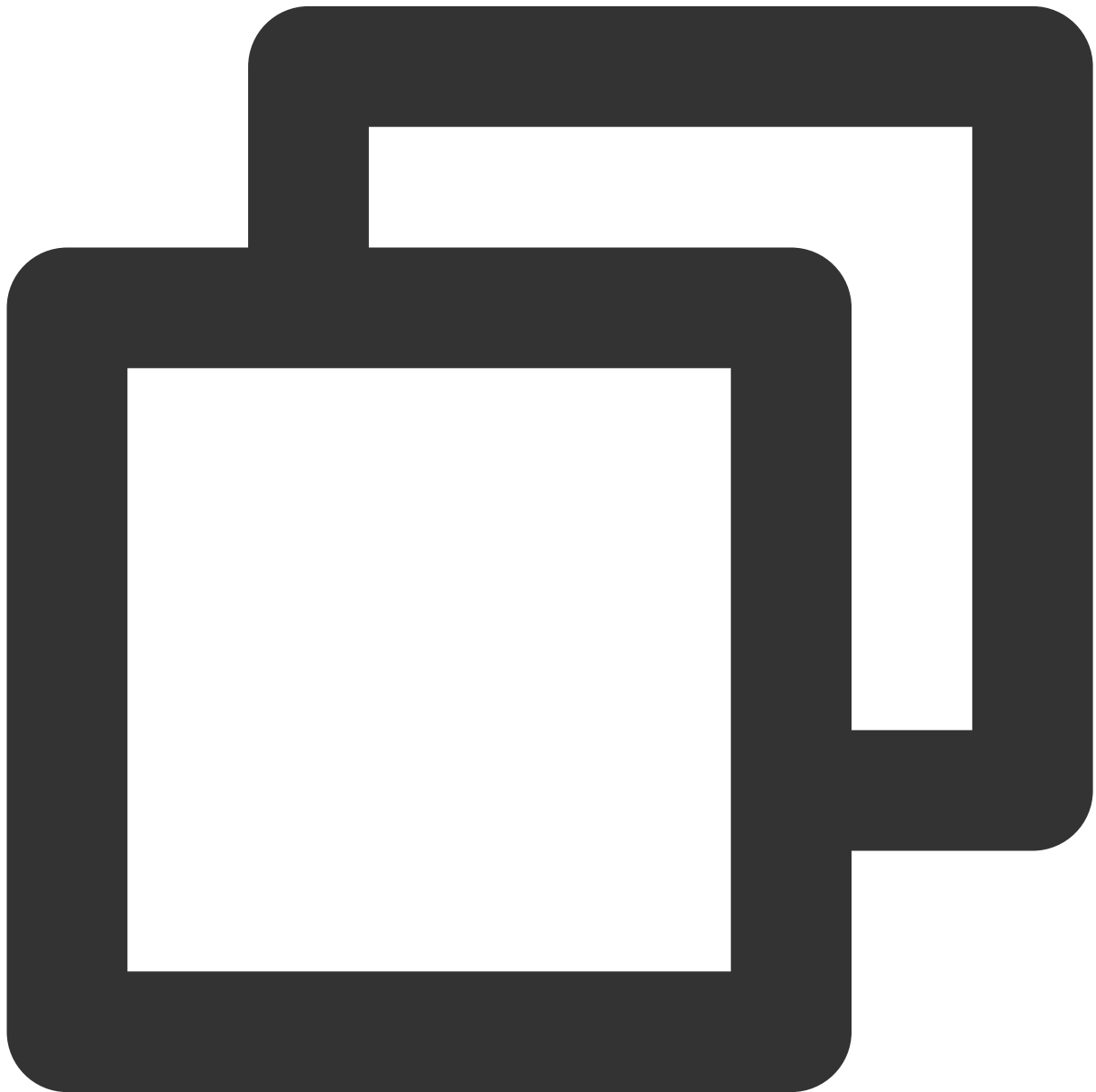
```
 return ret;
}
...
```

# Token Package Upload API

Last updated : 2024-01-17 14:24:51

## API Description

**Request method:** POST



Service URL/v3/push/package/upload

API service URLs correspond to service access points one by one. Please select the [service URL](#) corresponding to the service access point of your application.

**Feature:** you can upload a token package file for a batch of device tokens, and messages will be pushed by the tokens in it.

## Request Parameters

| Parameter | Type      | Required | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------|-----------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| file      | form-data | Yes      | Token package file name: [1, 100] characters<br>Token package format and size: <code>.zip</code> , <code>.txt</code> , or <code>.csv</code> file within 100 MB<br><code>.zip</code> file requirements: contains a single <code>.txt</code> or <code>.csv</code> file but not folders<br><code>.txt</code> file requirements: encoded in UTF-8; one token (36 characters) per row<br><code>.csv</code> file requirements: one column only; one token (36 characters) per row |

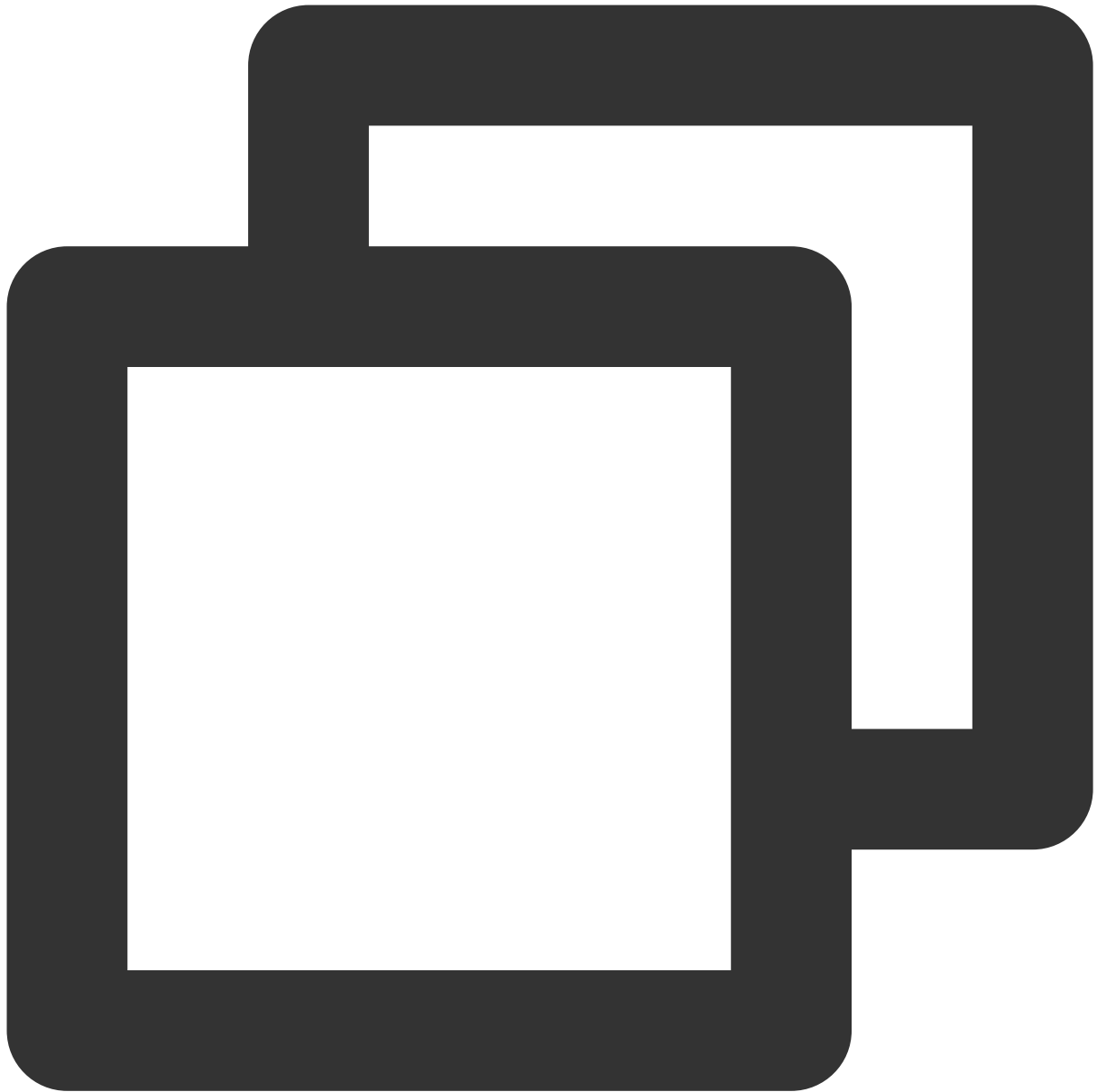
## Response Parameters

| Parameter | Type    | Required | Description                                                                                                                                                                            |
|-----------|---------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| retCode   | Integer | Yes      | Error code                                                                                                                                                                             |
| errMsg    | String  | Yes      | Error message when a request error occurs                                                                                                                                              |
| uploadId  | Integer | Yes      | When a file is uploaded, <code>uploadId</code> is provided as a positive integer, which represents the ID of the uploaded file. It is provided to the push API for token package push. |

## Sample Request

### Curl sample

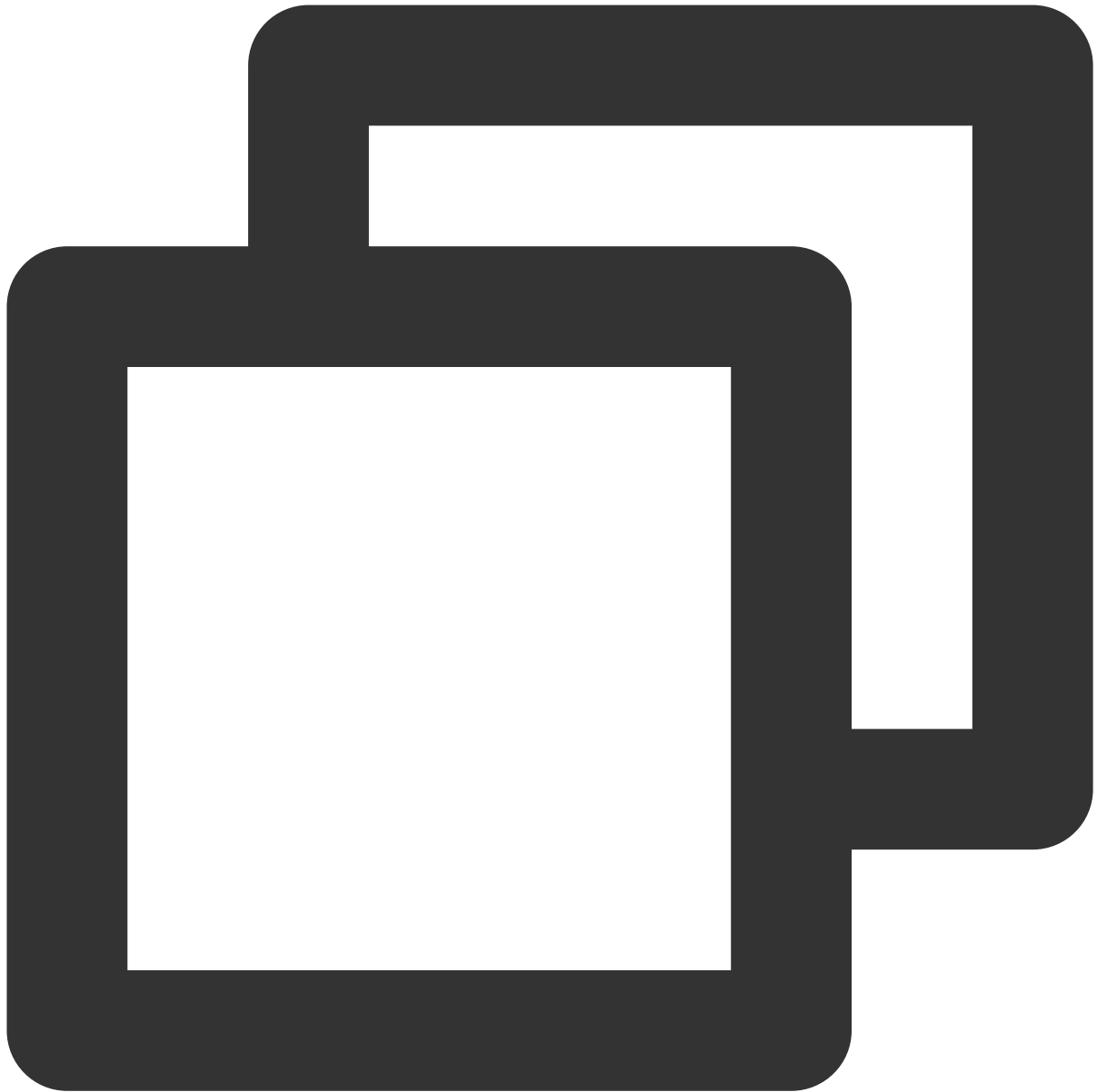




```
curl -X POST
https://api.tpns.tencent.com/v3/push/package/upload

-H 'Authorization: Basic application authorization information'
-F 'file=@C:\\Absolute path of the uploaded file'
```

### Python sample



```
import requests

url = "https://api.tpns.tencent.com/v3/push/package/upload"

files = {'file':open('file name', 'rb')}
upload_data={"fileName": "absolute file address"}

headers = {
 'Authorization': "Basic application authorization information",
}
```

```
response = requests.request("POST", url, data=upload_data, headers=headers, files=f
print(response.text.encode('utf-8'))
```

**Note:**

For more information on the application authorization, please see [Basic Auth Verification](#).

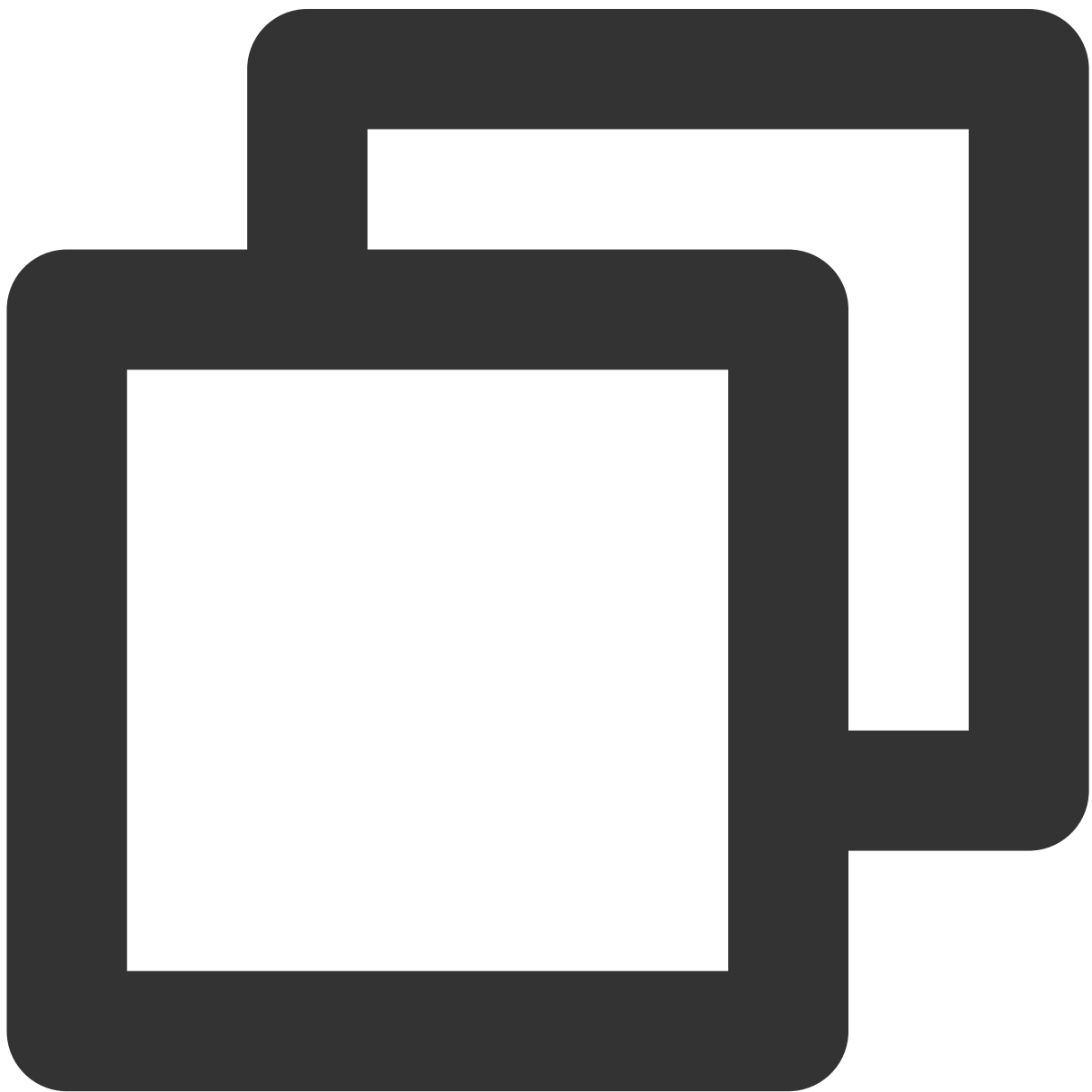
# Tag APIs

## Tag Binding and Unbinding

Last updated : 2024-01-17 14:24:51

### API Calling Description

**Request method:** POST.



```
Service URL/v3/device/tag
```

The API service address corresponds to the service access point one by one; therefore, please select the service address corresponding to your application [service access point](#).

#### API features:

Tag API is the general term for all tag APIs. Tag API includes various APIs for setting, updating, and deleting which are described as below:

For use cases of tags, see [Tag Feature](#).

## Parameter description

#### Request parameters

| Parameter     | Type    | Required | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------|---------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator_type | Integer | Yes      | Operation type:<br>1: add a tag to a token.<br>2: delete a tag from a token.<br>3: add multiple tags to a token.<br>4: delete multiple tags from a token.<br>5: delete all tags from a token.<br>6: add one or more tags or custom tags to a token in an overwriting manner.<br>(This API starts to set new tags only after the tag history is cleared. Therefore, for the same token, it is recommended that the interval between API calls be over 1s; otherwise, the update may fail.)<br>7: add a tag to multiple tokens.<br>8: delete a tag from multiple tokens.<br>9: batch add tags (up to 20 pairs are allowed per call; in each tag-token pair, the tag is before the token).<br>10: batch delete tags (up to 20 pairs are allowed per call; in each tag-token pair, the tag is before the token). |
| token_list    | Array   | No       | Device list:<br>Required when operator_type is 1, 2, 3, 4, 5, 6, 7, or 8.<br>When operator_type is 1, 2, 3, 4, 5, or 6 and this parameter contains multiple tokens, only the first token will be set.<br>Format example: ["token1","token2"]<br>The list can contain up to 500 values.<br>A token string cannot exceed 36 characters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| tag_list      | Array   | No       | Tag list:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|                |       |    |                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------|-------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                |       |    | <p>Required when <code>operator_type</code> is 1, 2, 3, 4, 6, 7, or 8; ignored when <code>operator_type</code> is 5.</p> <p>When <code>operator_type</code> is 1, 2, 7, or 8 and this parameter contains multiple tags, only the first tag will be set.</p> <p>Format example: ["tag1","tag2"]</p> <p>The list can contain up to 500 values.</p> <p>A tag string cannot exceed 50 characters.</p> |
| tag_token_list | Array | No | <p>Tag-device pair list:</p> <p>Required when <code>operator_type</code> is 9 or 10.</p> <p>Format example: [{"tag":"tag123", "token":"token123"}]</p> <p>In each pair, the tag is before the token.</p> <p>The list can contain up to 500 values.</p> <p>A tag string cannot exceed 50 characters.</p> <p>A token string cannot exceed 36 characters.</p>                                        |

One application can have up to 10,000 custom tags. One device token can be bound to up to 100 custom tags. If you want to increase this limit, contact [our online customer service](#). One custom tag can be bound to an unlimited number of device tokens.

If the API needs to be called only once, then there are no restrictions on the API call method.

If the API needs to be called continuously, note the following:

If the API needs to be called continuously to set more than 10 tags or tokens, you are advised to use batch APIs. It is recommended that the interval between API calls be no less than 1s to guarantee correct tag operations.

When not using batch APIs, then the API for the next non-batched tag is called after the returned value of the Tencent Push Notification Service server is clearly obtained. It is not recommended that multi-thread async be used at the same time as performing tag API calling.

Colon `:` is a keyword used by the Tencent Push Notification Service backend for tag categorization. If you include `:` in a tag when setting it, the string before the first `:` serves as the category name of the tag. This is only used when `operator_type` is 6, which means overwriting tags by category. For example, if the existing tags of a device are `level:1`, `level:2`, and `male`, you can directly overwrite `level:1` and `level:2` with `level:3` without having to unbind `level:1` and `level:2` one by one, and then bind `level:3`. For more information, please see the following sample request where `operator_type` is 6.

### Response parameters

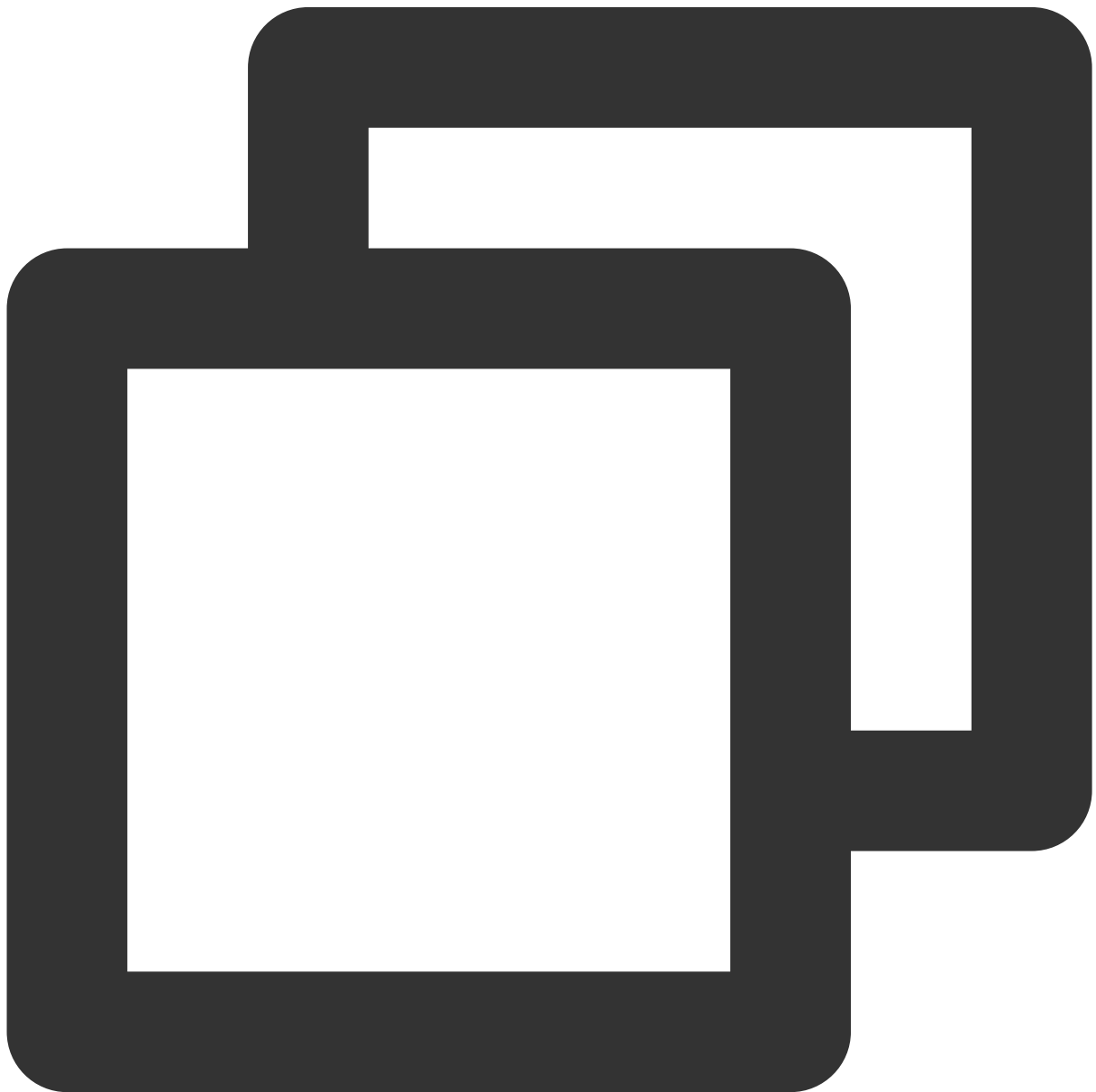
| Parameter | Type    | Required | Description                                                         |
|-----------|---------|----------|---------------------------------------------------------------------|
| ret_code  | Integer | Yes      | Error code. For more information, please see the error codes table. |
| err_msg   | String  | No       | Error message when a request error occurs                           |
| result    | String  | No       | When the request is correct:                                        |

|  |  |  |                                                                                                                                                                 |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | If there is extra data to return, the result will be encapsulated in this parameter in JSON format.<br>If there is no extra data, this parameter may not exist. |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Samples

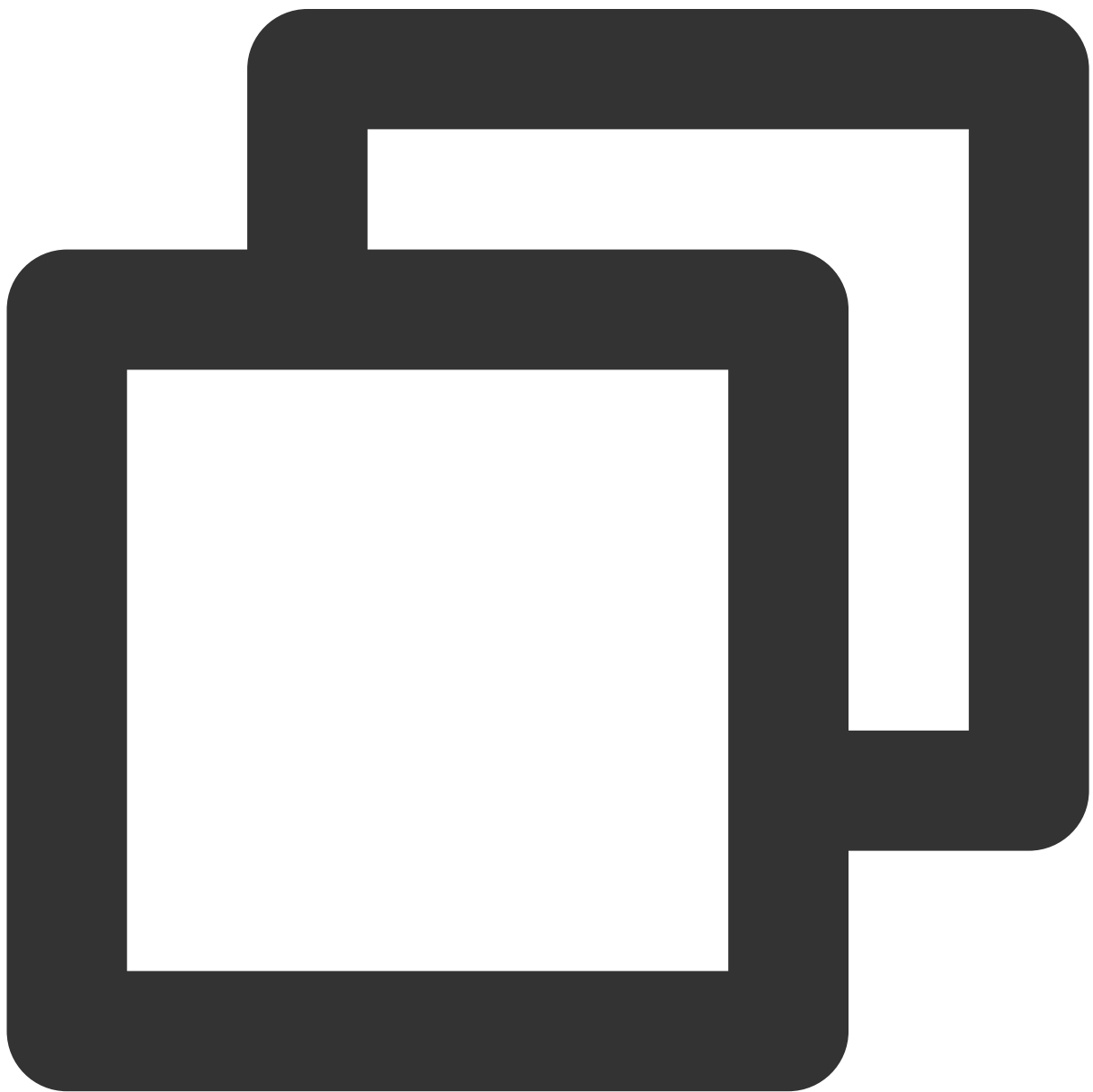
### Examples of Tag Binding and Unbinding Requests

Add a tag (tag1) to a token (token1)



```
{
 "operator_type": 1,
 "tag_list": [
 "tag1"
],
 "token_list": [
 "token1"
]
}
```

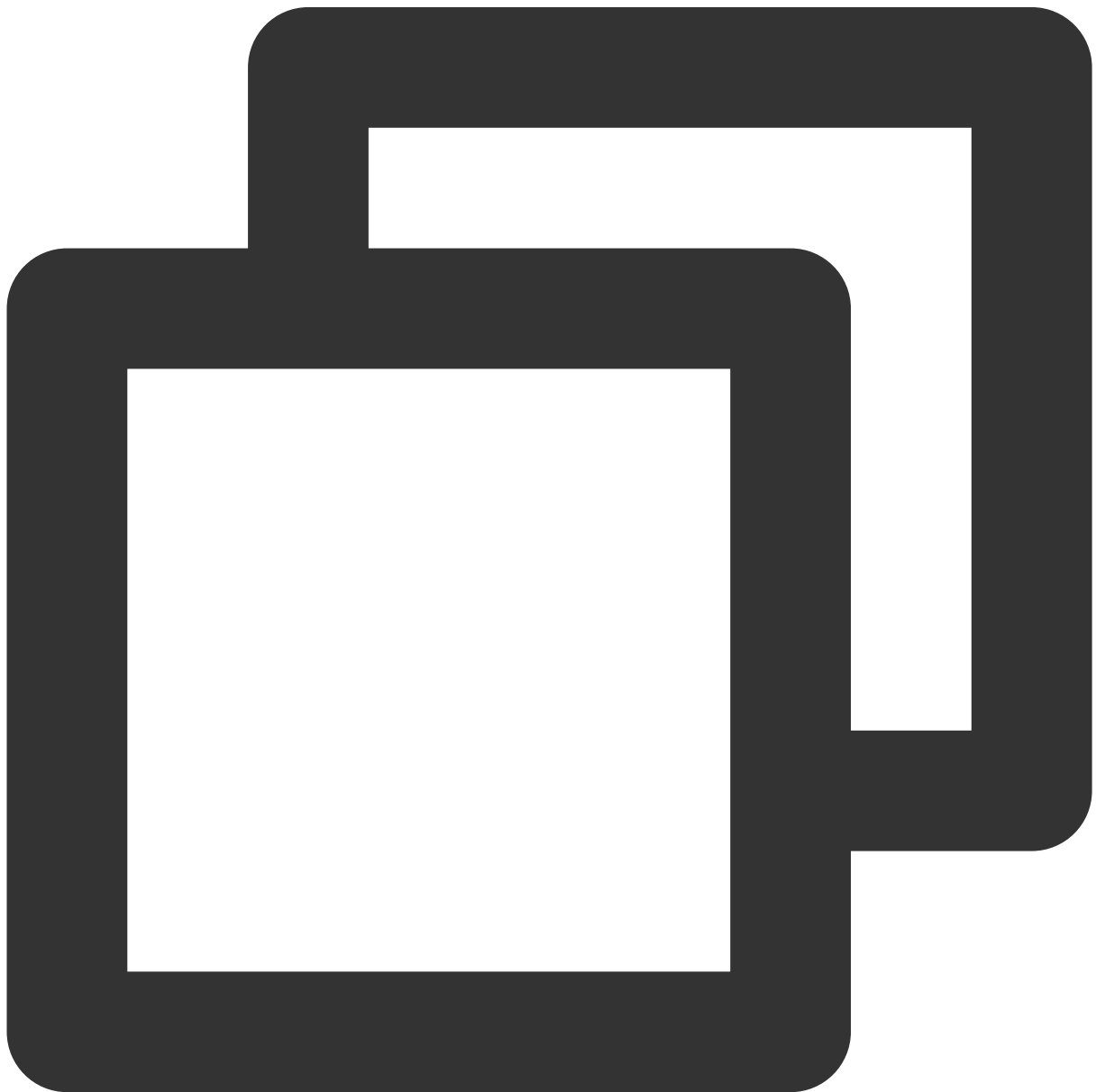
Delete a tag (tag1) from a token (token1)





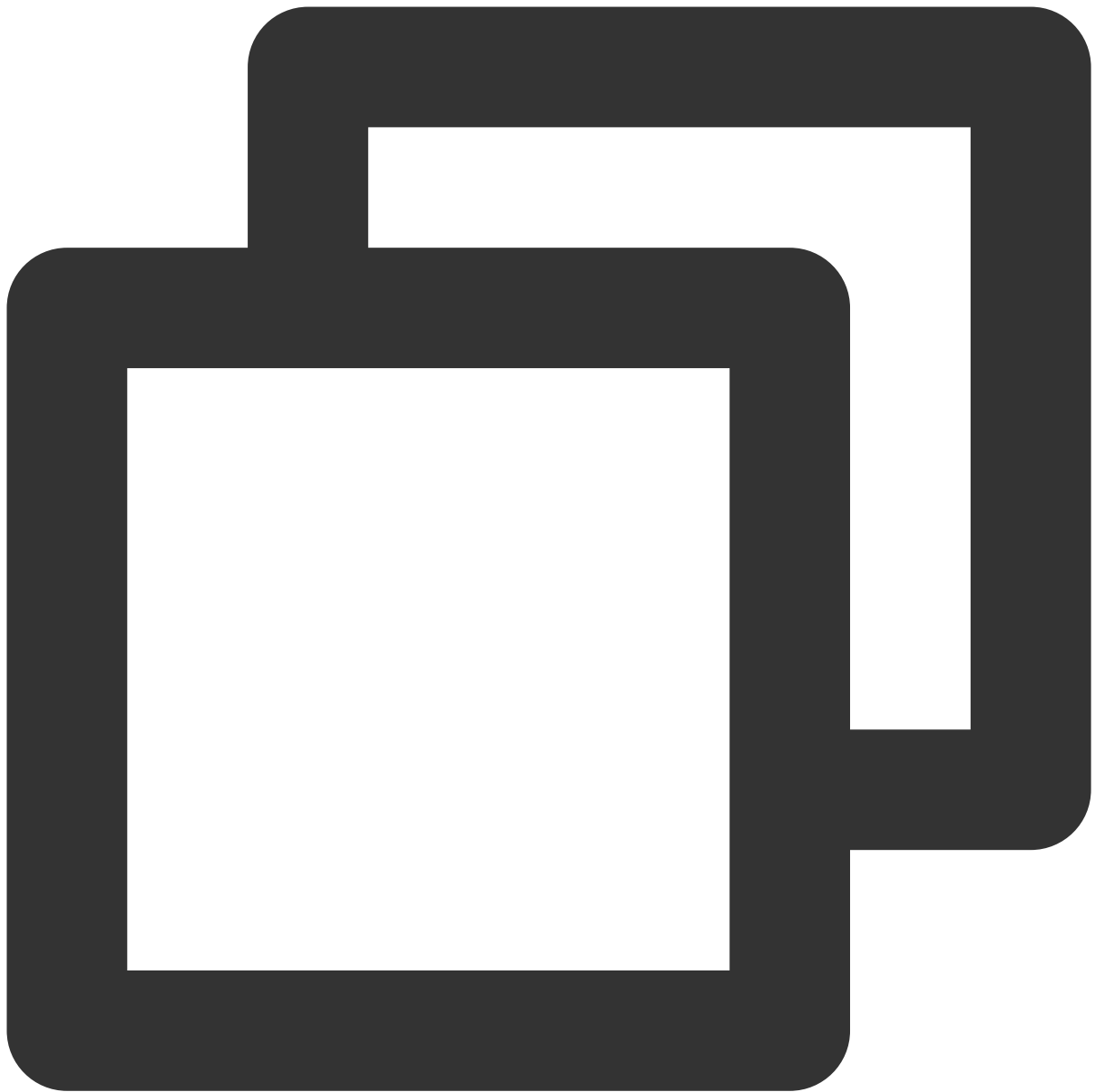
```
{
 "operator_type": 2,
 "tag_list": [
 "tag1"
],
 "token_list": [
 "token1"
]
}
```

Add multiple tags (tag1 and tag2) to a token (token1)



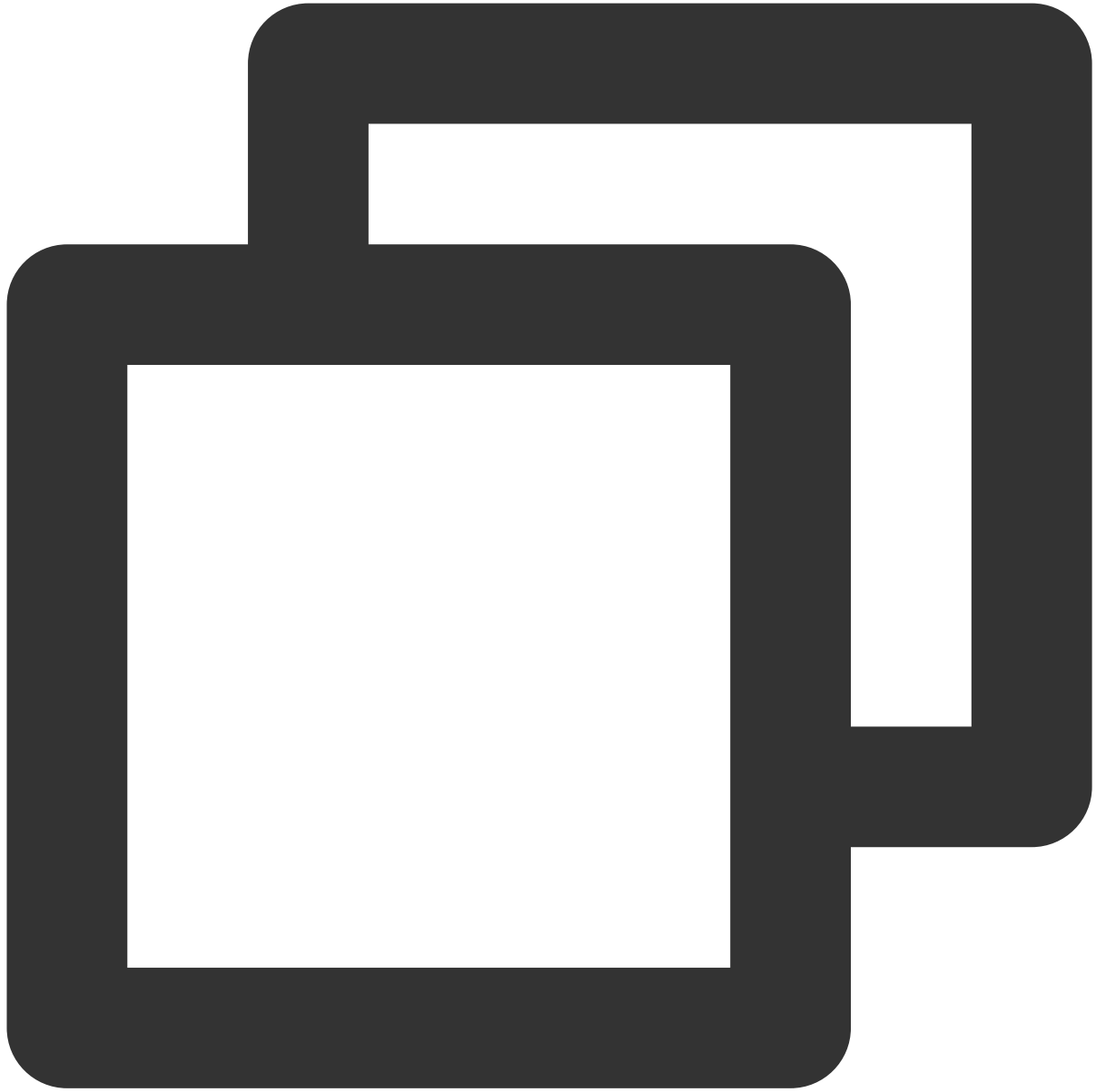
```
{
 "operator_type": 3,
 "tag_list": [
 "tag1",
 "tag2"
],
 "token_list": [
 "token1"
]
}
```

Delete multiple tags (tag1 and tag2) from a token (token1)



```
{
 "operator_type": 4,
 "tag_list": [
 "tag1",
 "tag2"
],
 "token_list": [
 "token1"
]
}
```

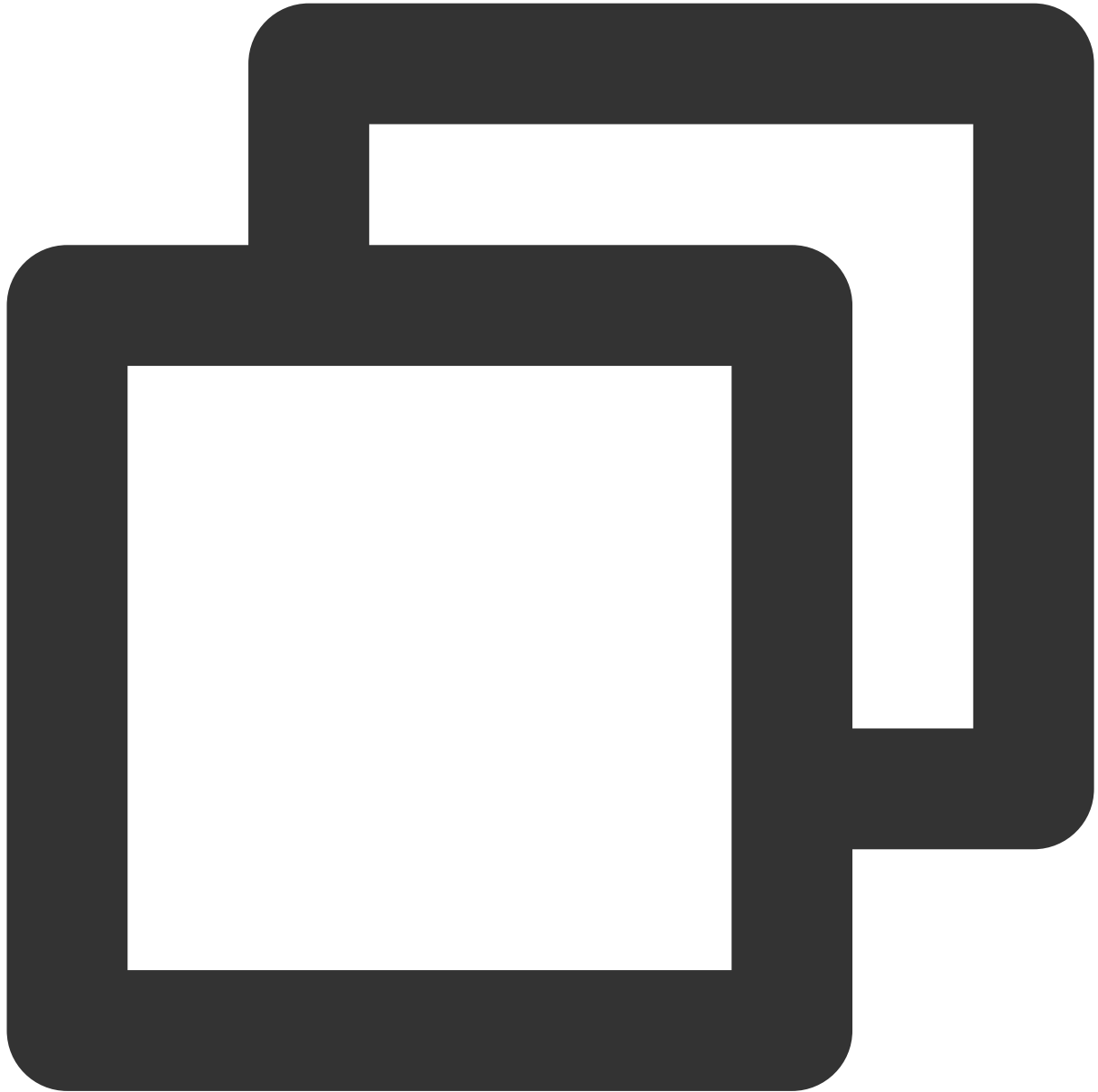
Delete all tags from a token (token1)



```
{
 "operator_type": 5,
 "tag_list": [
 "tag1",
 "tag2"
],
 "token_list": [
 "token1"
]
}
```

```
}
```

Overwrite custom tags of a token (token1)



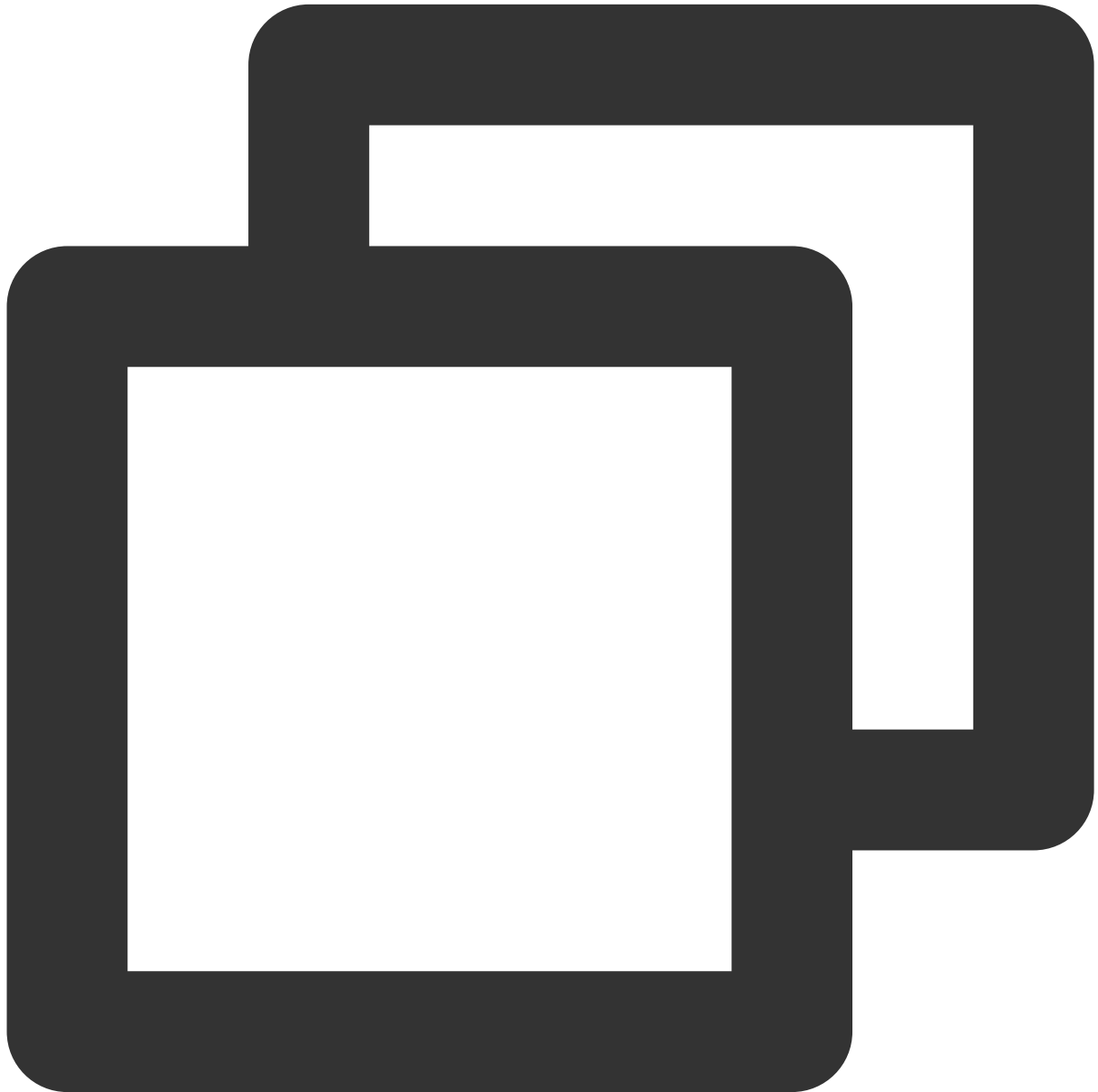
```
{
 "operator_type": 6,
 "tag_list": [
 "test:2",
 "level"
],
 "token_list": [
 "token1"
]
}
```

```
]
}
```

**Note:**

If one or more tags do not contain `:`, then the `test:2` and `level` tags overwrite all custom tags of `token1`.

Batch overwrite custom tags of a token (this API overwrites custom tags only, not all tags)



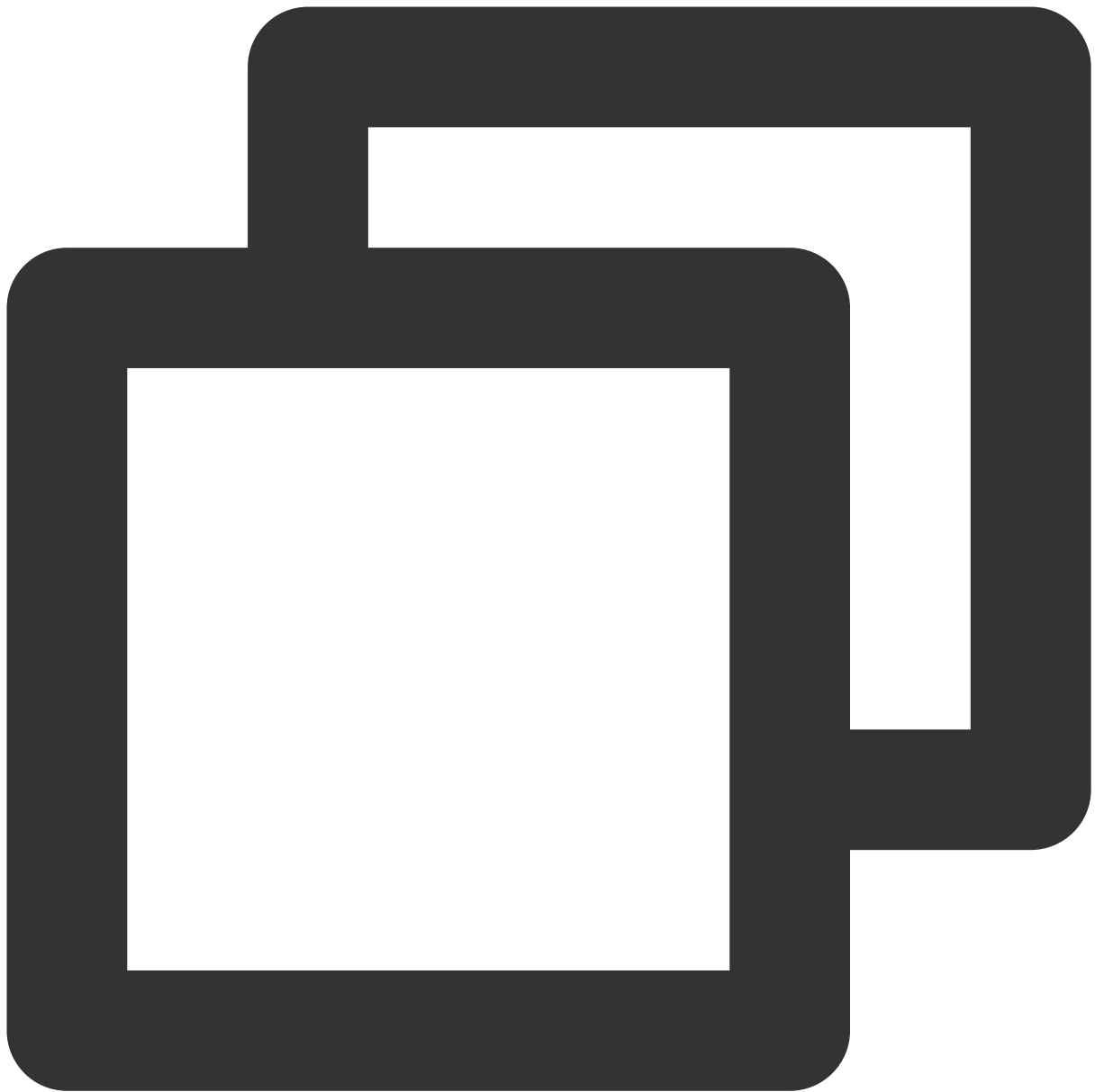
```
{
 "operator_type": 6,
 "tag_list": [
```

```
 "test:2",
 "level:2"
],
 "token_list": [
 "token1"
]
}
```

**Note:**

If all the tags contain `:`, since the string before the first `:` is the tag category, only tags in the same category bound to the device will be overwritten; for example, `test:2` overwrites `test:*`, and `level:2` overwrites `level:*`, without affecting other tags.

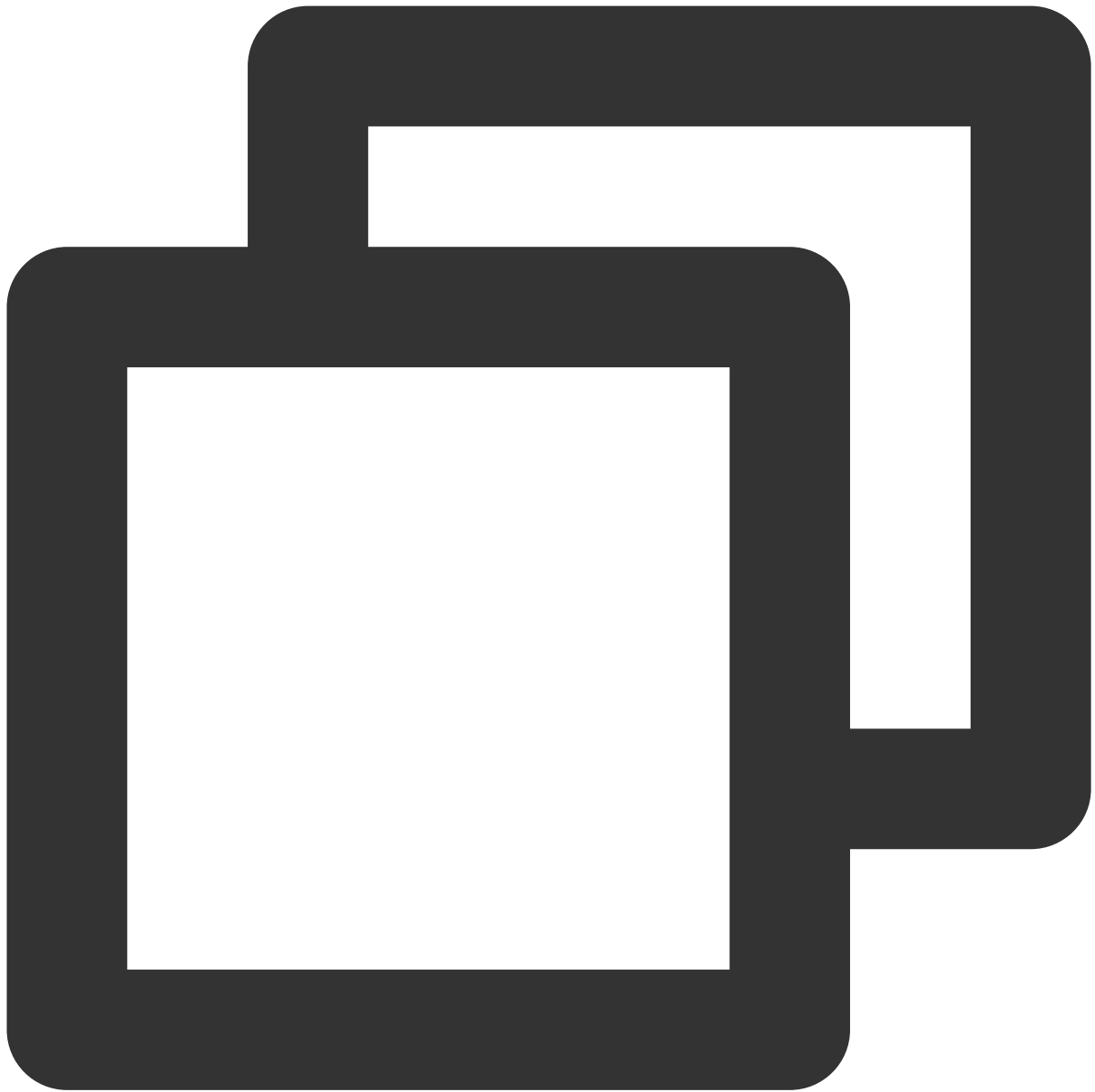
Add a tag (tag1) to multiple tokens (token1 and token2)



```
{
 "operator_type": 7,
 "tag_list": [
 "tag1"
],
 "token_list": [
 "token1",
 "token2"
]
}
```



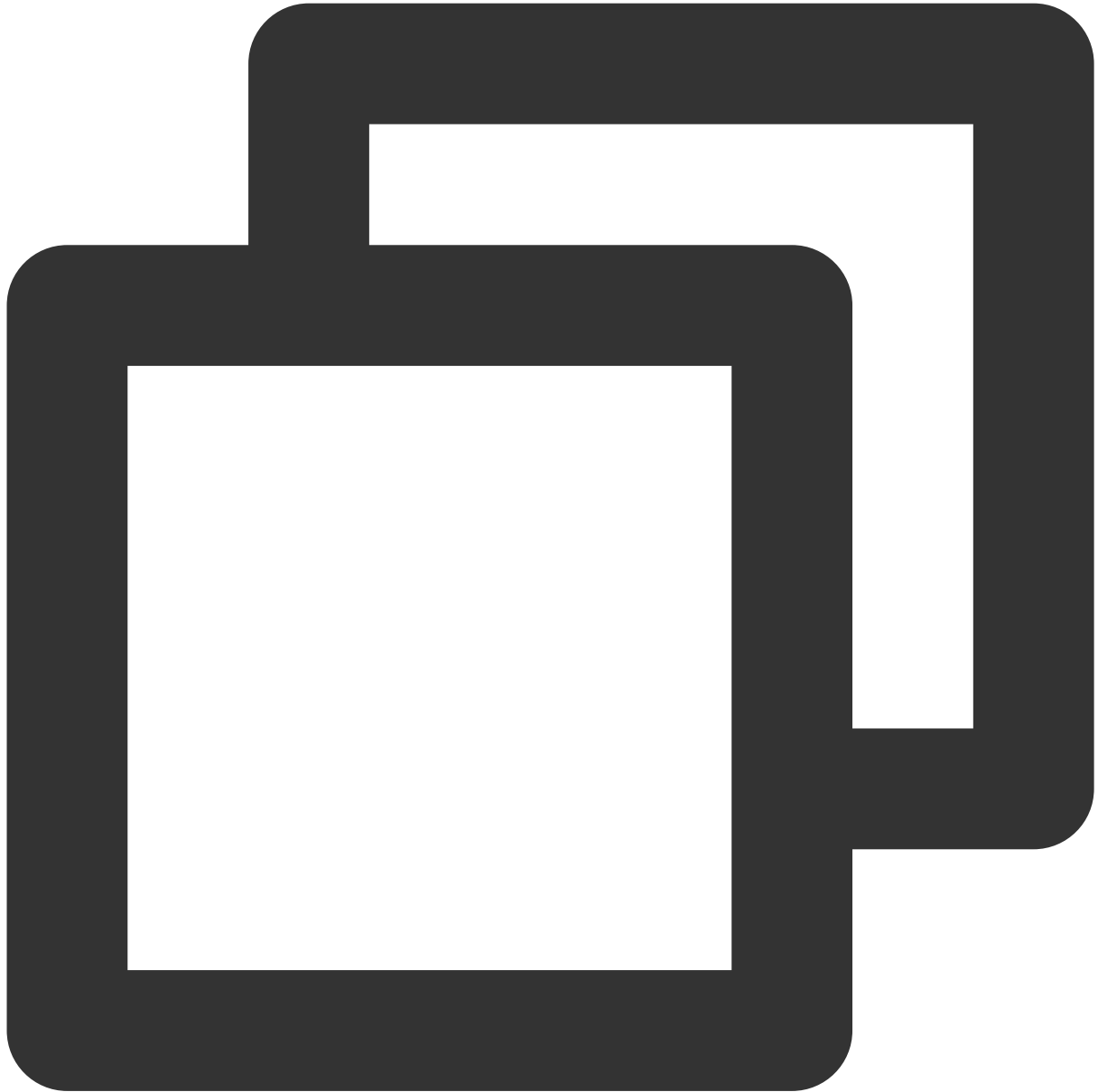
Delete a tag (tag1) from multiple tokens (token1 and token2)



```
{
 "operator_type": 8,
 "tag_list": [
 "tag1"
],
 "token_list": [
 "token1",
 "token2"
]
}
```

```
}
```

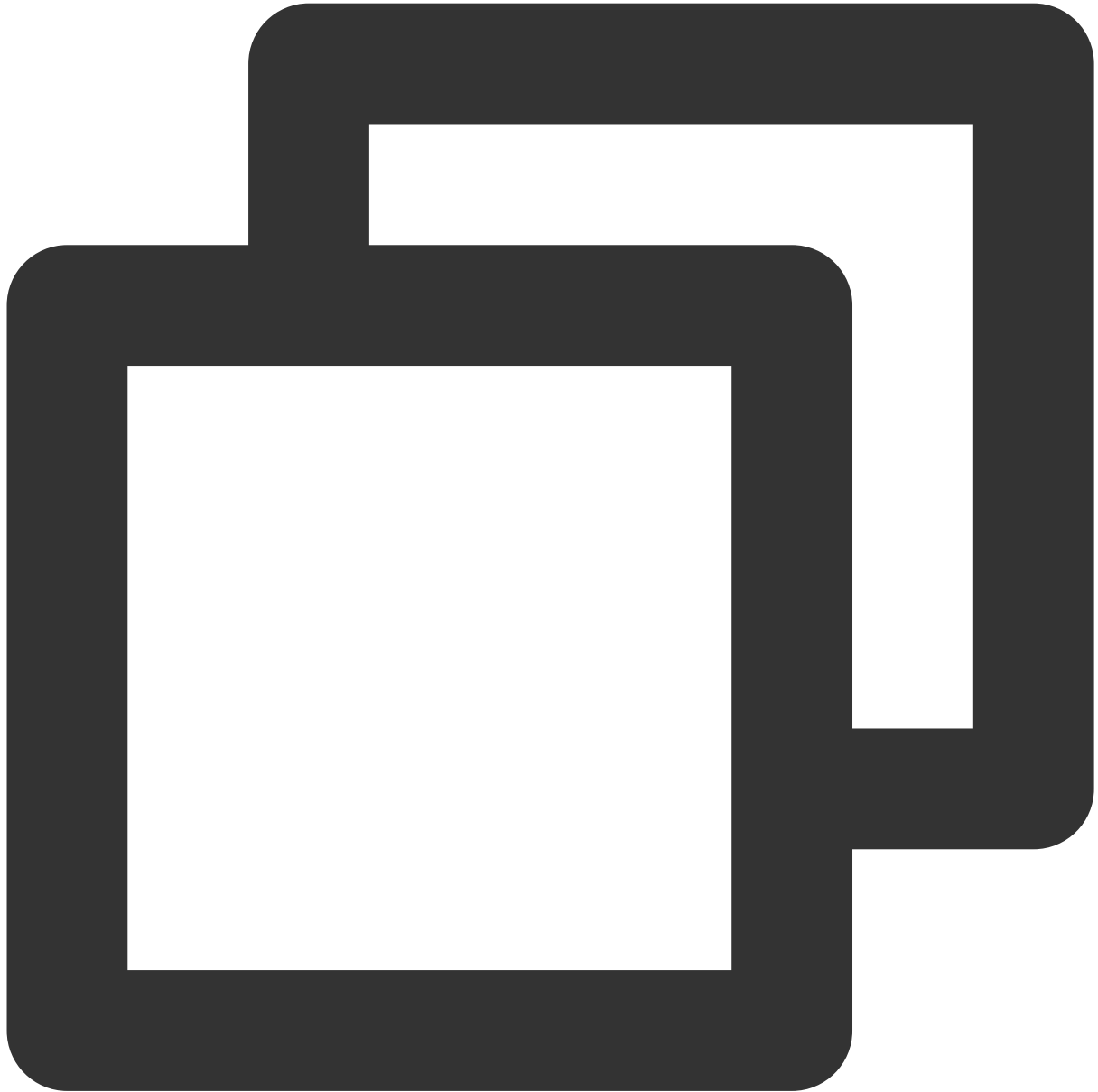
Batch set tags



```
{
 "operator_type": 9,
 "tag_token_list": [
 {
 "tag": "tag1",
 "token": "token1"
 }
]
}
```

```
}
```

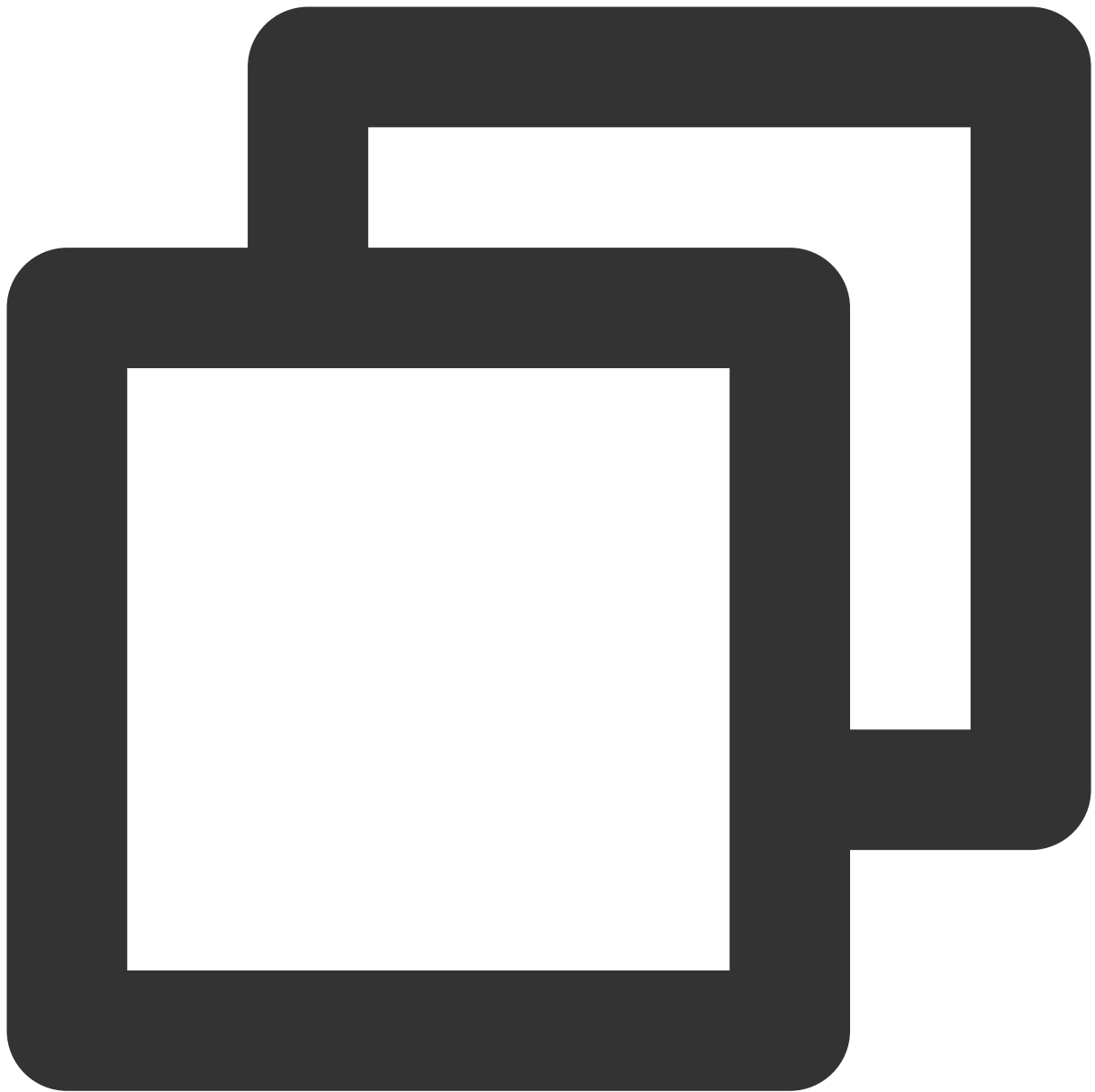
Batch delete tags (tag1, tag2, and tag3)



```
{
 "operator_type": 10,
 "tag_token_list": [
 {
 "tag": "tag1",
 "token": "token1"
 },
 {
```

```
 "tag": "tag2",
 "token": "token2"
 },
 {
 "tag": "tag3",
 "token": "token3"
 }
]
}
```

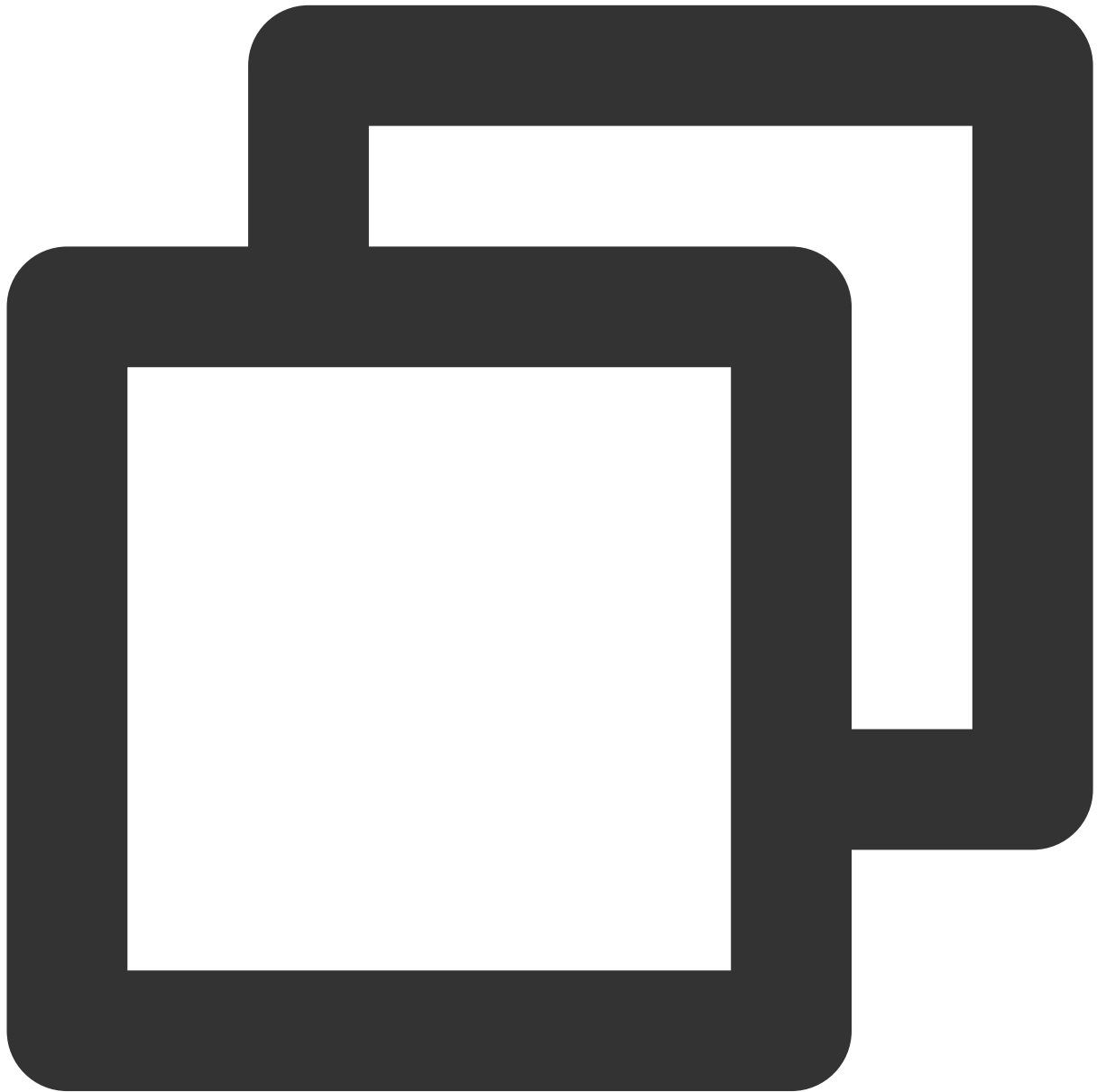
### Example of Tag Setting Request



```
POST /v3/device/tag HTTP/1.1
Host: api.tpns.tencent.com
Content-Type: application/json
Authorization: Basic YTViNWYwNzFmZjc3YTplYTUxMmViNzczwNGQ1ZmI1YTZhOTM3Y2FmYTcwZTc3MQ
Cache-Control: no-cache
Postman-Token: 4b82a159-afdd-4f5c-b459-de978d845d2f
{
 "operator_type": 1,
 "tag_list": [
 "tag1"
],
```

```
"token_list": [
 "token1"
]
}
```

### Example of Tag Setting Response



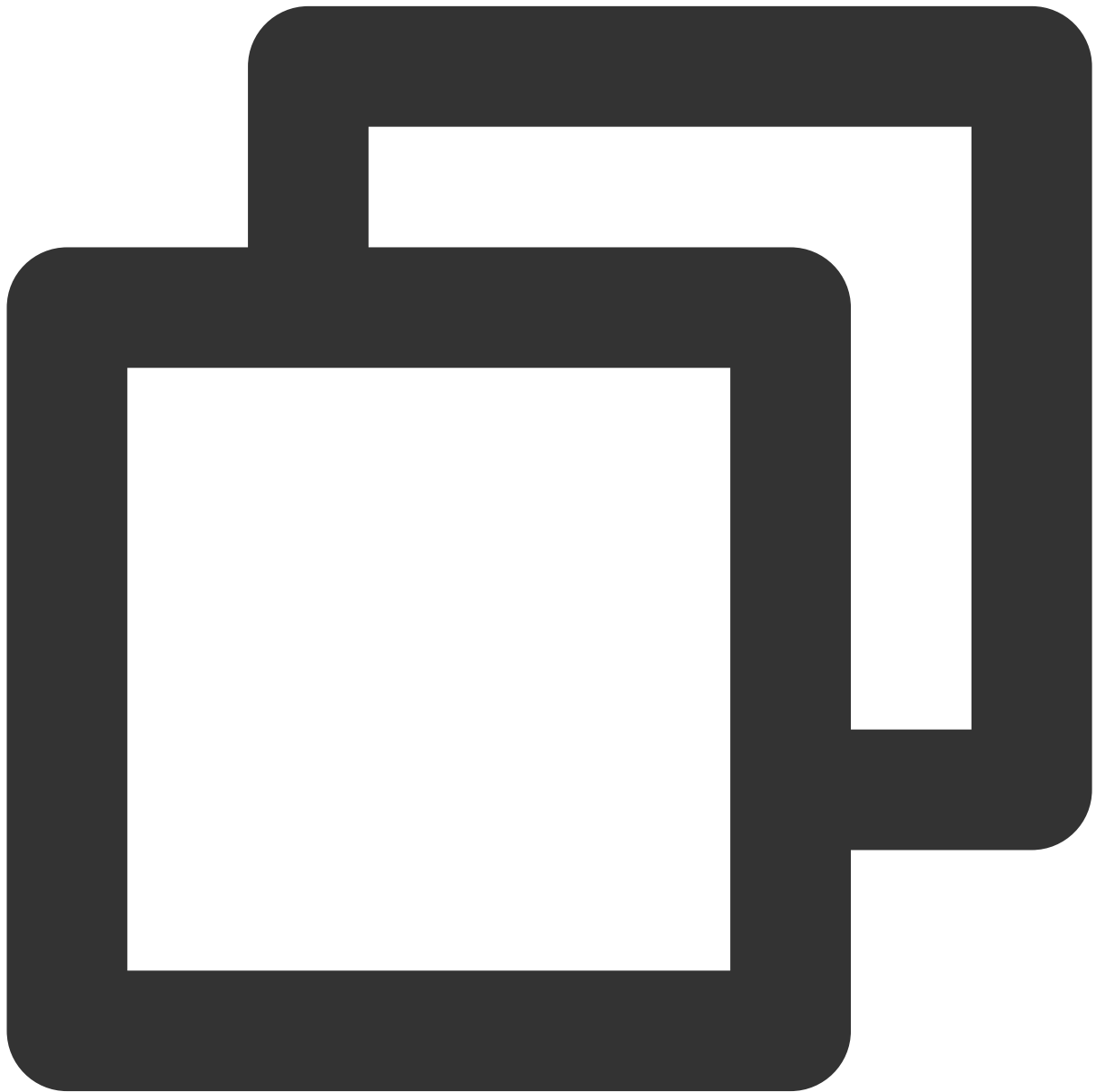
```
{
 "seq": 0,
 "ret_code": 0
}
```



# Deleting All Devices Under Tag

Last updated : 2024-01-17 14:24:51

## API Description



```
request address/v3/device/tag/delete_all_device
```



The API request address is corresponding to the service access point. Select the [request address](#) corresponding to the service access point of your application.

**Feature:** this API is used to delete all device APIs under a certain tag.

## Parameter Description

### Request parameters

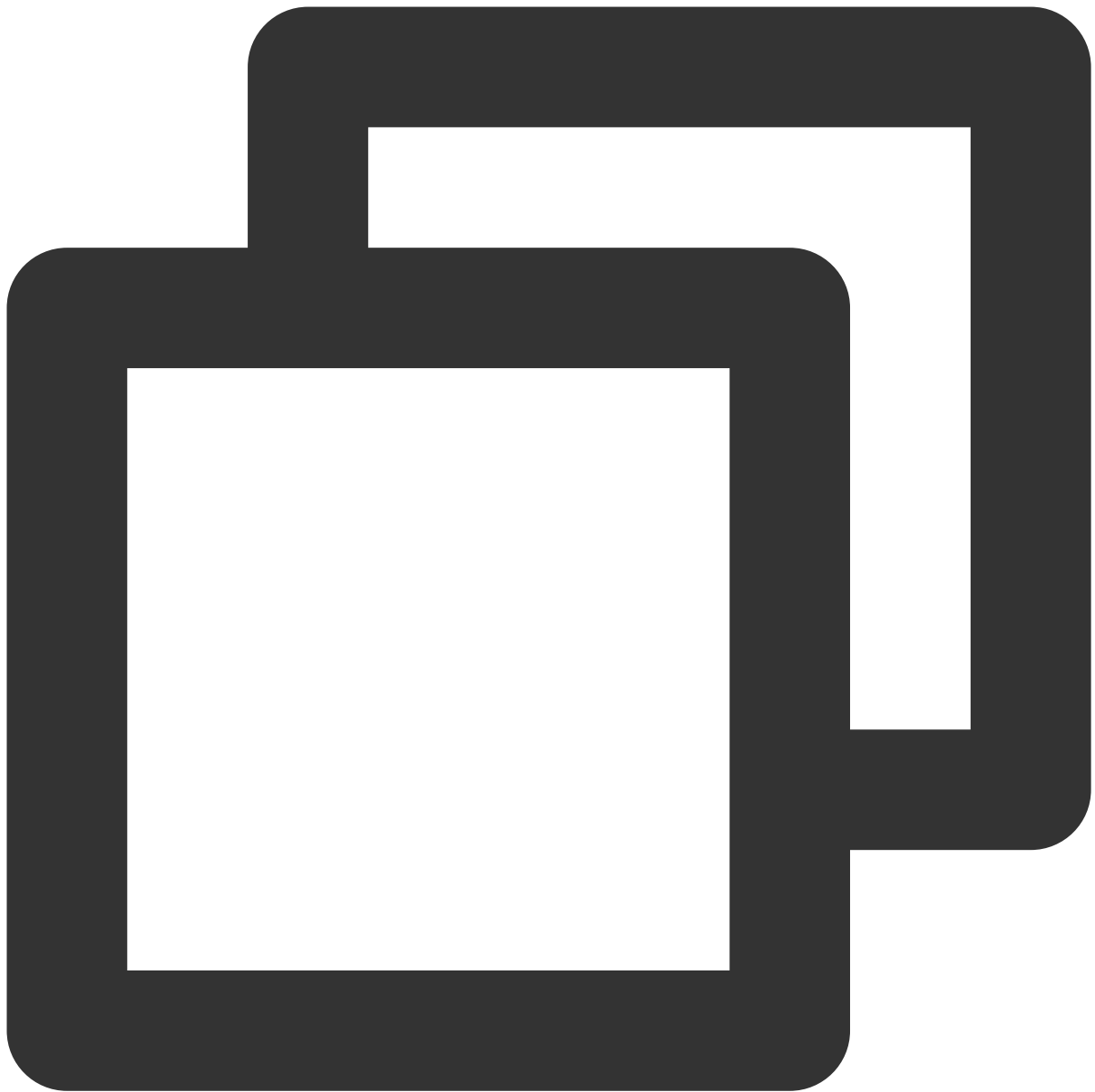
| Parameter Name | Type  | Required | Description                                                                                   |
|----------------|-------|----------|-----------------------------------------------------------------------------------------------|
| tag_list       | Array | Yes      | List of tags to be deleted: <code>"tag_list": ["test_tag_3_Ik0N0", "test_tag_2_Ik0N0"]</code> |

### Response parameters

| Field name | Type    | Required | Comments                                                                                                                                                                                |
|------------|---------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| seq        | Integer | Yes      | The same as the request packet (if the request packet is invalid JSON, this field is 0)                                                                                                 |
| ret_code   | Integer | Yes      | Error code. For more information, please see the error codes table                                                                                                                      |
| err_msg    | String  | No       | Error message when an error occurs in the request                                                                                                                                       |
| result     | String  | No       | When the request is correct:<br>If there is extra data to be returned, the result will be encapsulated in the json of this field. If there is no extra data, there may be no such field |

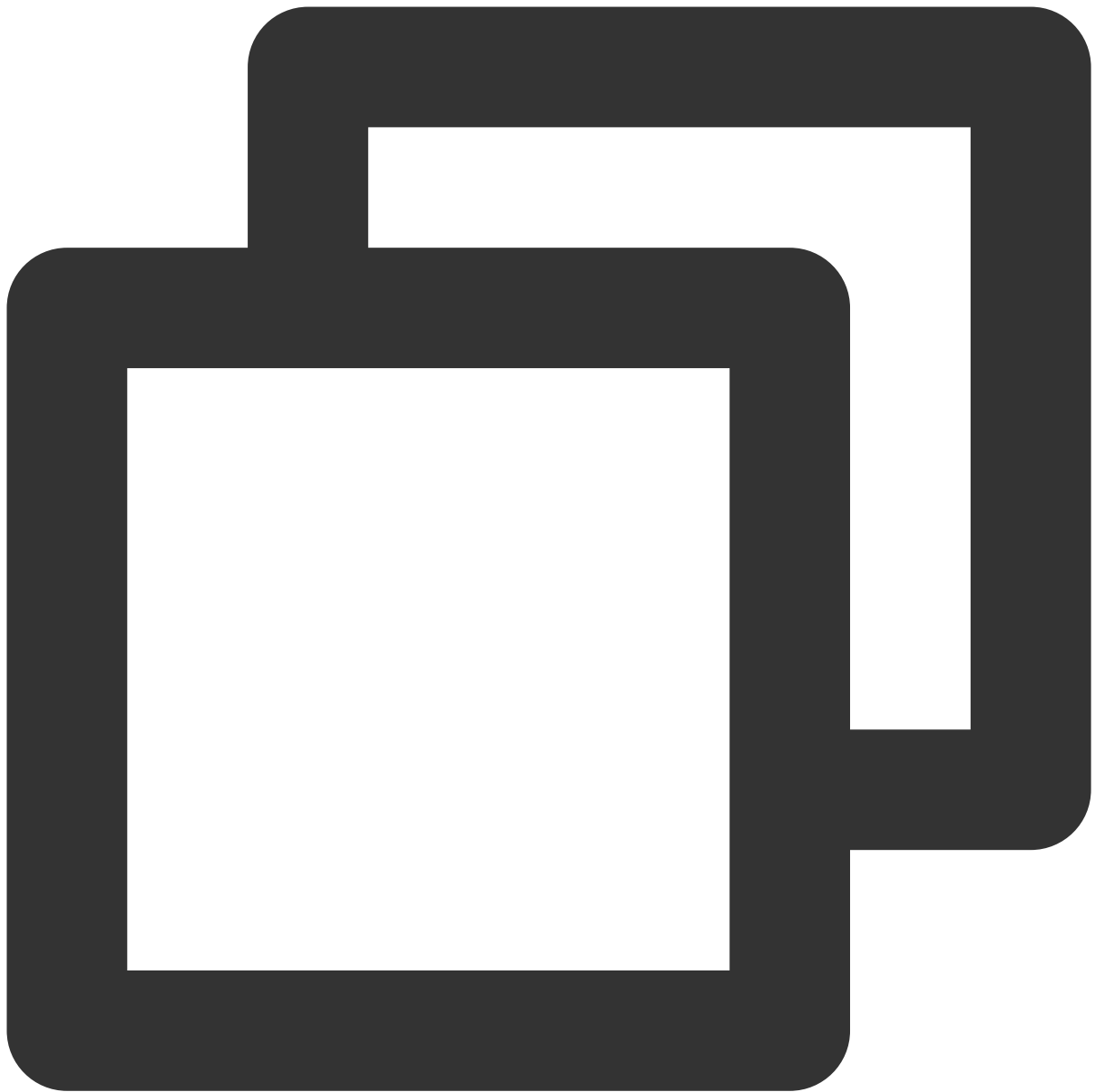
## Samples

### Sample request



```
{
 "tag_list": ["test_tag_3_Ik0N0", "test_tag_2_Ik0N0"]
}
```

### Sample response



```
{
 "ret_code": 0,
 "err_msg": "",
 "seq": 0,
 "result":{"":""}
}
```

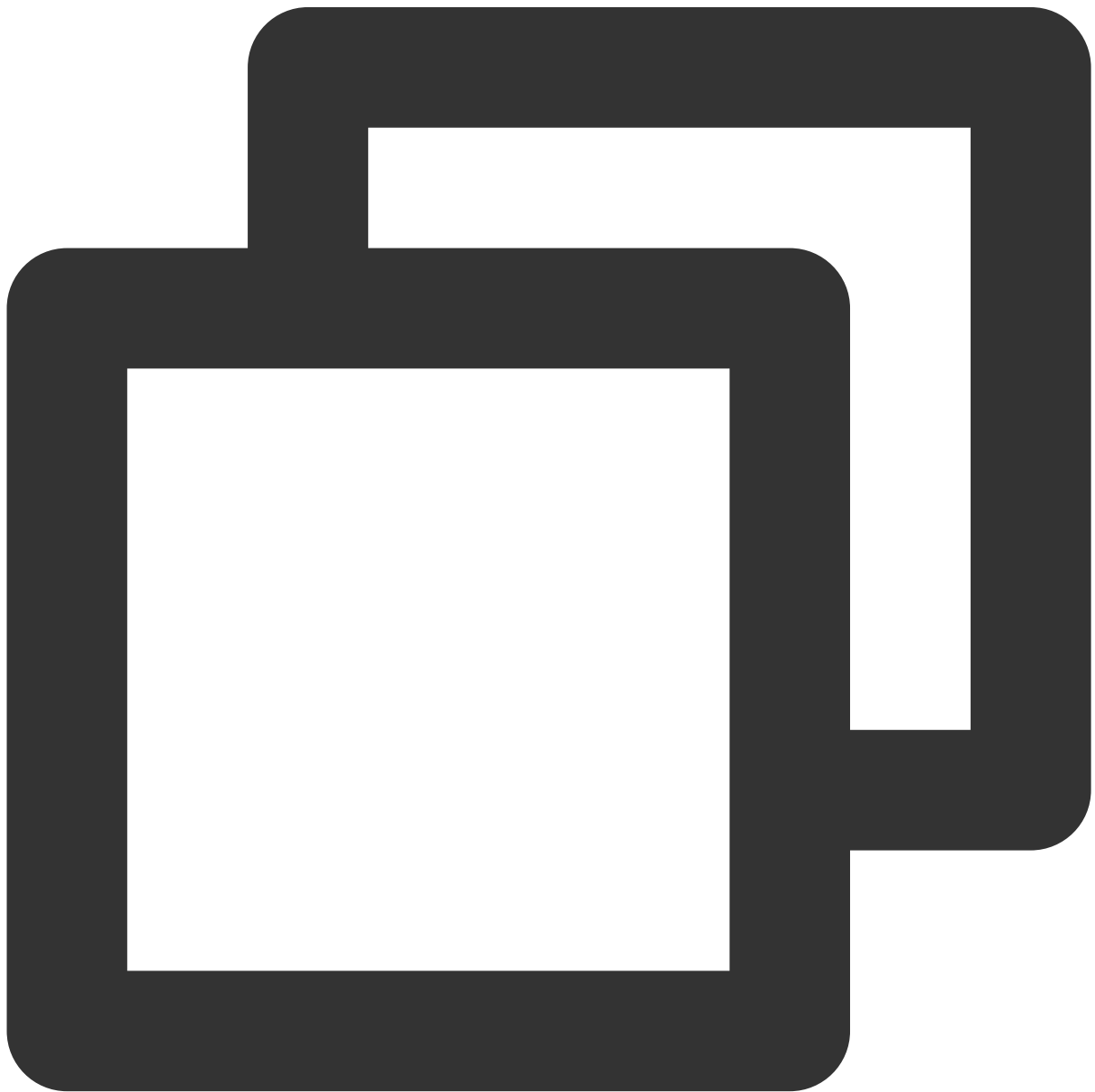
# Account APIs

## Account Binding and Unbinding

Last updated : 2024-01-17 14:26:44

### API Calling Description

**Request method:** POST.



Service URL/v3/device/account/batchoperate

The API service address corresponds to the service access point one by one; therefore, please select the service address corresponding to your application [service access point](#).

**Feature:** this is an async API that is only responsible for task issuance, with real-time operation currently unsupported.

## Parameter description

### Request parameters

| Parameter      | Type    | Required | Description                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|---------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator_type  | Integer | Yes      | Operation type. Value range: [1, 5]<br>(Disused) 1 : Bind a token to one more account.<br>2 : Bind a token to another account in an overriding manner.<br>3 : Unbind a token from multiple accounts.<br>4 : Unbind a token from all accounts.<br>5 : Unbind an account from all tokens.                                                                                                                  |
| account_list   | Array   | No       | List of account IDs. This field is valid and required when operator_type is 5 . Each element contains the account and account_type (for type setting) fields.<br><b>Example:</b><br><pre>[{"account": "926@126.com"}, {"account": "1527000000"}, {"account": "2849249569", "account_type": 9}]</pre>                                                                                                     |
| token_list     | Array   | No       | List of device IDs. This field is valid and required when operator_type is 4 .                                                                                                                                                                                                                                                                                                                           |
| token_accounts | Array   | No       | This field is valid and required when operator_type is 1 , 2 , or 3 . Up to 20 tokens can be set in each call. Each token_account consists of 1 token and 1 account_list .<br><b>Example:</b><br><pre>[{"token": "token1", "account_list": [{"account": "926@126.com"}, {"account": "1527000000"}]}, {"token": "token2", "account_list": [{"account": "926@163.com"}, {"account": "1527000001"}]}]</pre> |

|                         |    |                                                                                                                                                                    |   |
|-------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| account_type<br>Integer | No | Account type, which can be selected during account binding. The default value is <code>0</code> . For valid values, see <a href="#">Account Type Value Table</a> . | - |
|-------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|

**Note:**

As the `token append account` API was seldom used and confusing to developers, it had been disused since October 26, 2020. If you have used it before, it will be replaced by the `Token clearAndAppendAccount` API. Only one account can be bound to an account type. If multiple accounts are bound to an account type, an account bound later will override the one bound earlier.

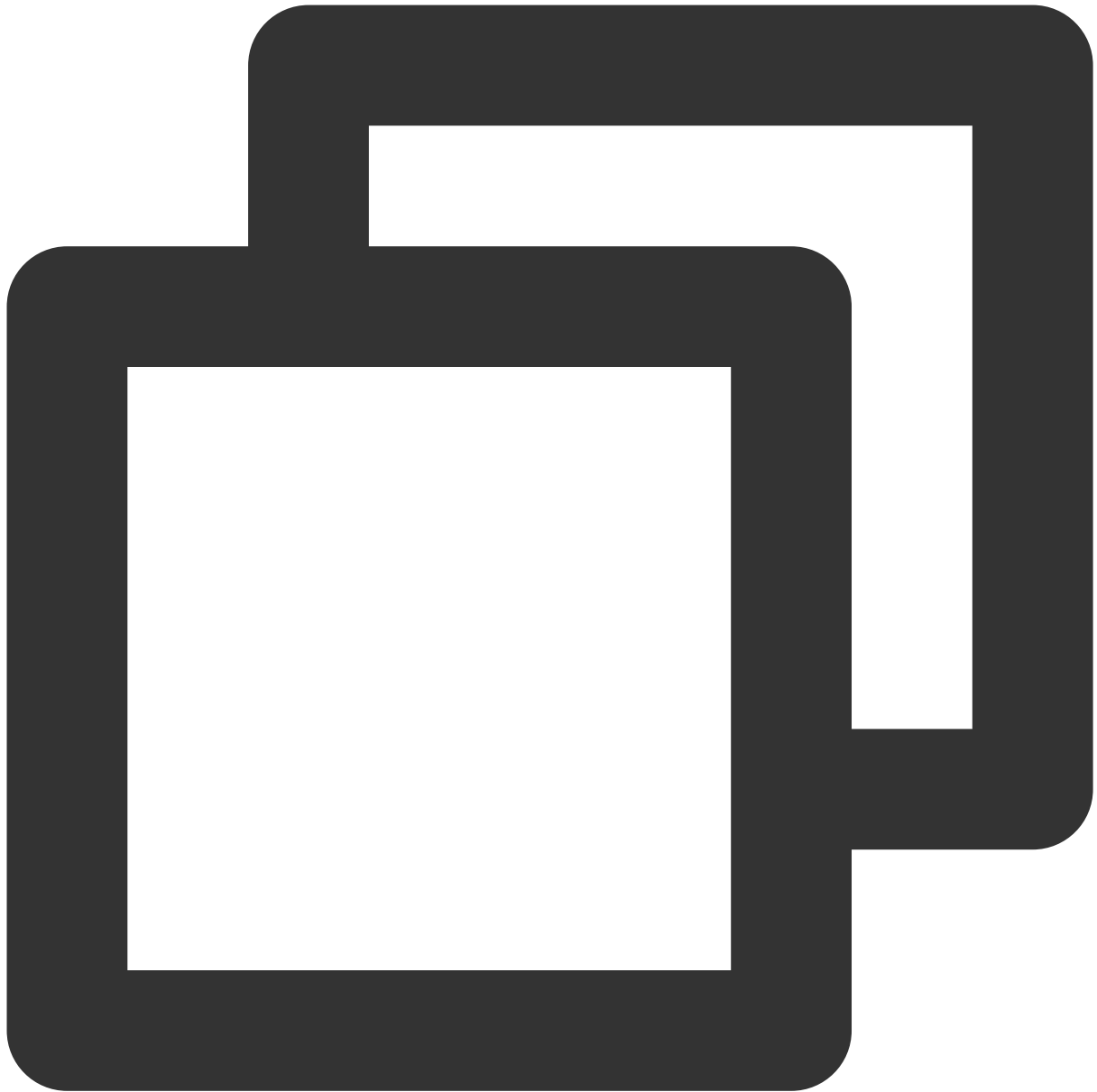
**Response parameters**

| Parameter | Type    | Description                                                                     |
|-----------|---------|---------------------------------------------------------------------------------|
| ret_code  | Integer | Error code. For more information, see <a href="#">Server-Side Error Codes</a> . |
| err_msg   | String  | Error message.                                                                  |
| result    | Array   | Operation status code corresponding to each token or account ["0","1008006"].   |

## Samples

**Sample request**

(Disused) Bind a token to one more account

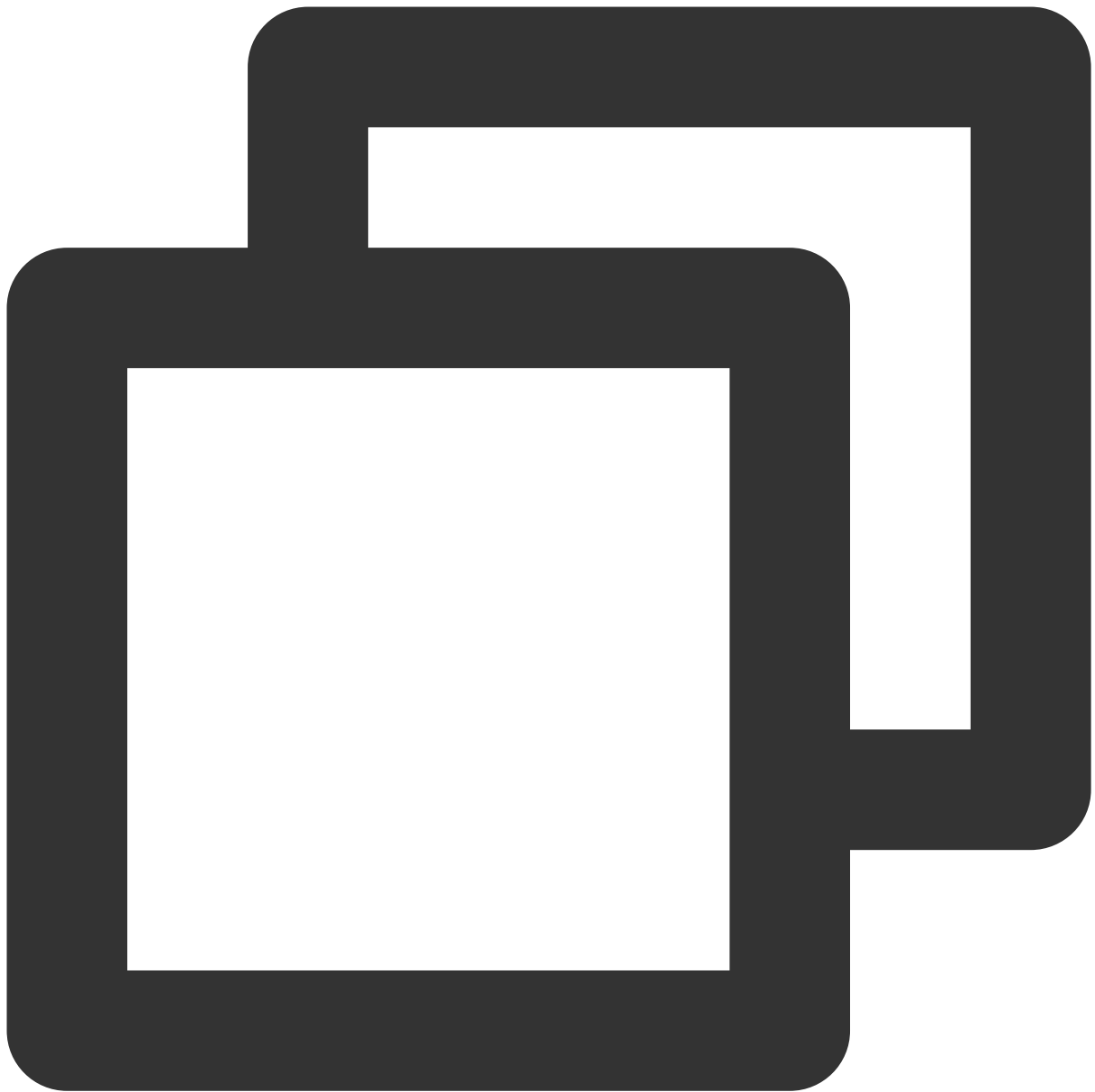


```
{
 "operator_type": 1,
 "token_accounts": [
 {
 "token": "token1",
 "account_list": [
 {
 "account": "926@126.com"
 },
 {
 "account": "1527000000"
 }
]
 }
]
}
```

```
 }
]
},
{
 "token": "token2",
 "account_list": [
 {
 "account": "926@163.com"
 },
 {
 "account": "1527000001"
 }
]
}
]
```

Bind the token to another account in an overriding manner

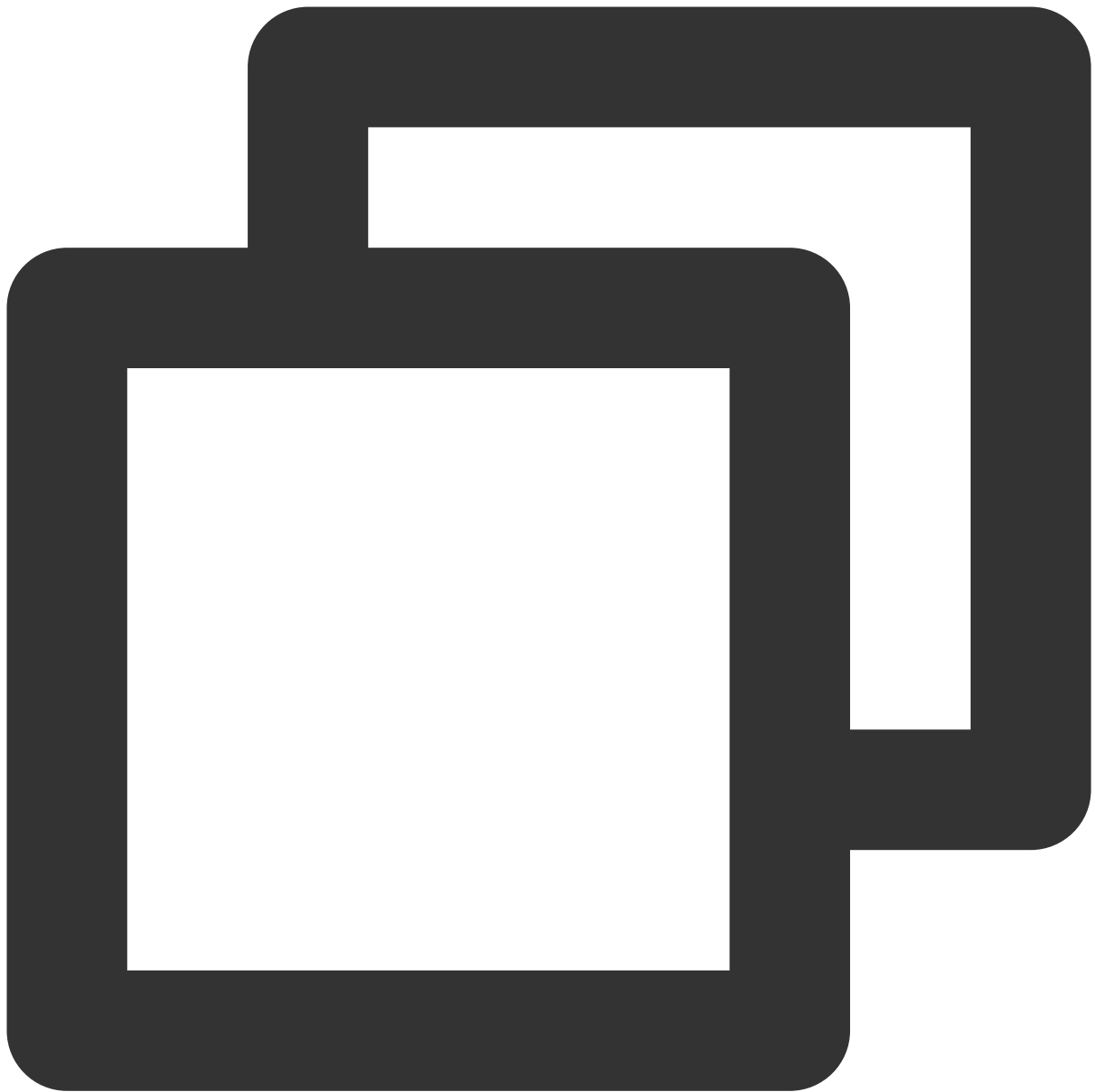




```
{
 "operator_type": 2,
 "token_accounts": [
 {
 "token": "token1",
 "account_list": [
 {
 "account": "926@126.com"
 },
 {
 "account": "1527000000"
 }
]
 }
]
}
```

```
 }
]
},
{
 "token": "token2",
 "account_list": [
 {
 "account": "926@163.com"
 },
 {
 "account": "1527000001"
 }
]
}
]
```

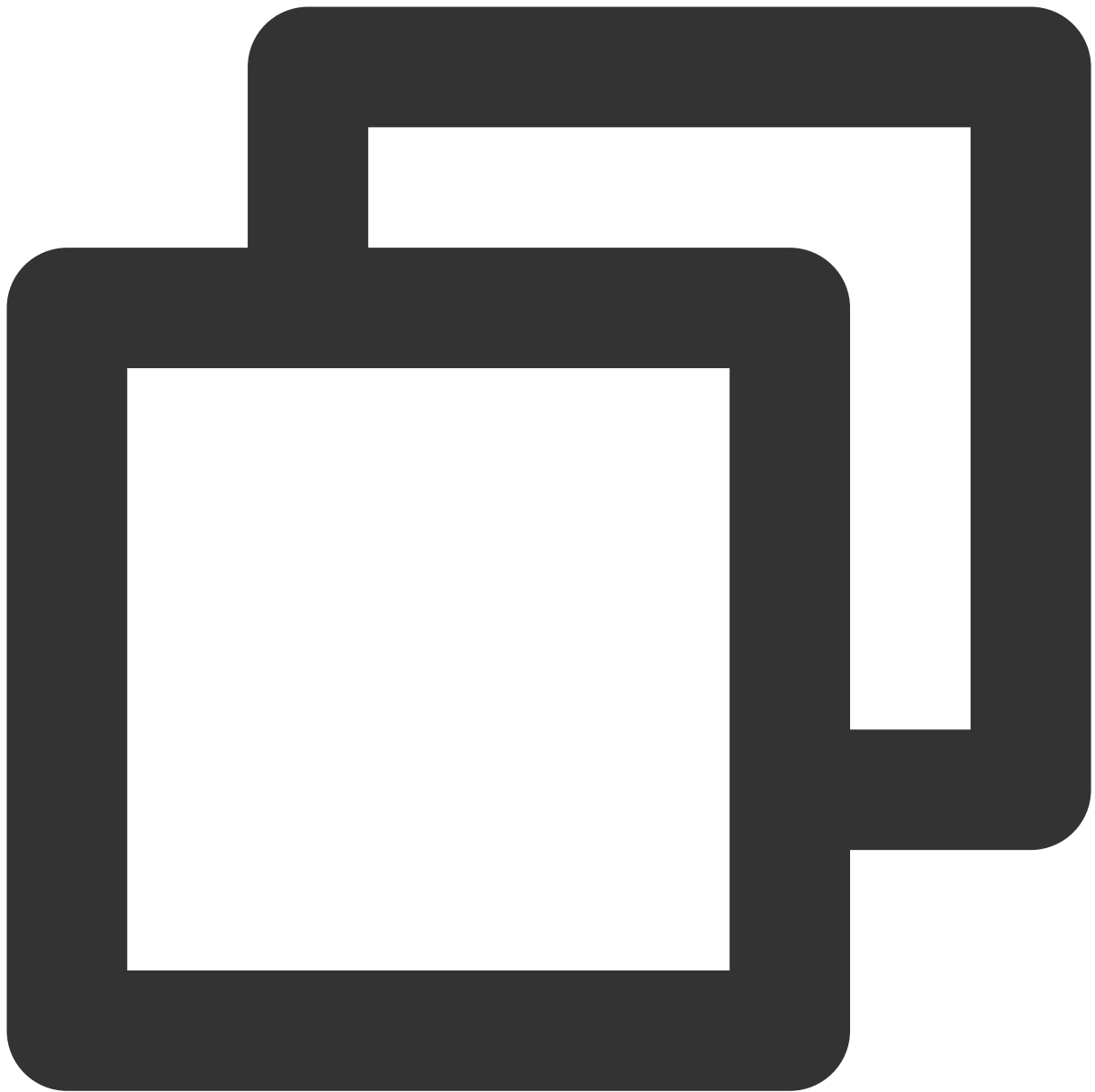
Unbind a token from an account



```
{
 "operator_type": 3,
 "token_accounts": [
 {
 "token": "token1",
 "account_list": [
 {
 "account": "926@126.com"
 },
 {
 "account": "1527000000"
 }
]
 }
]
}
```

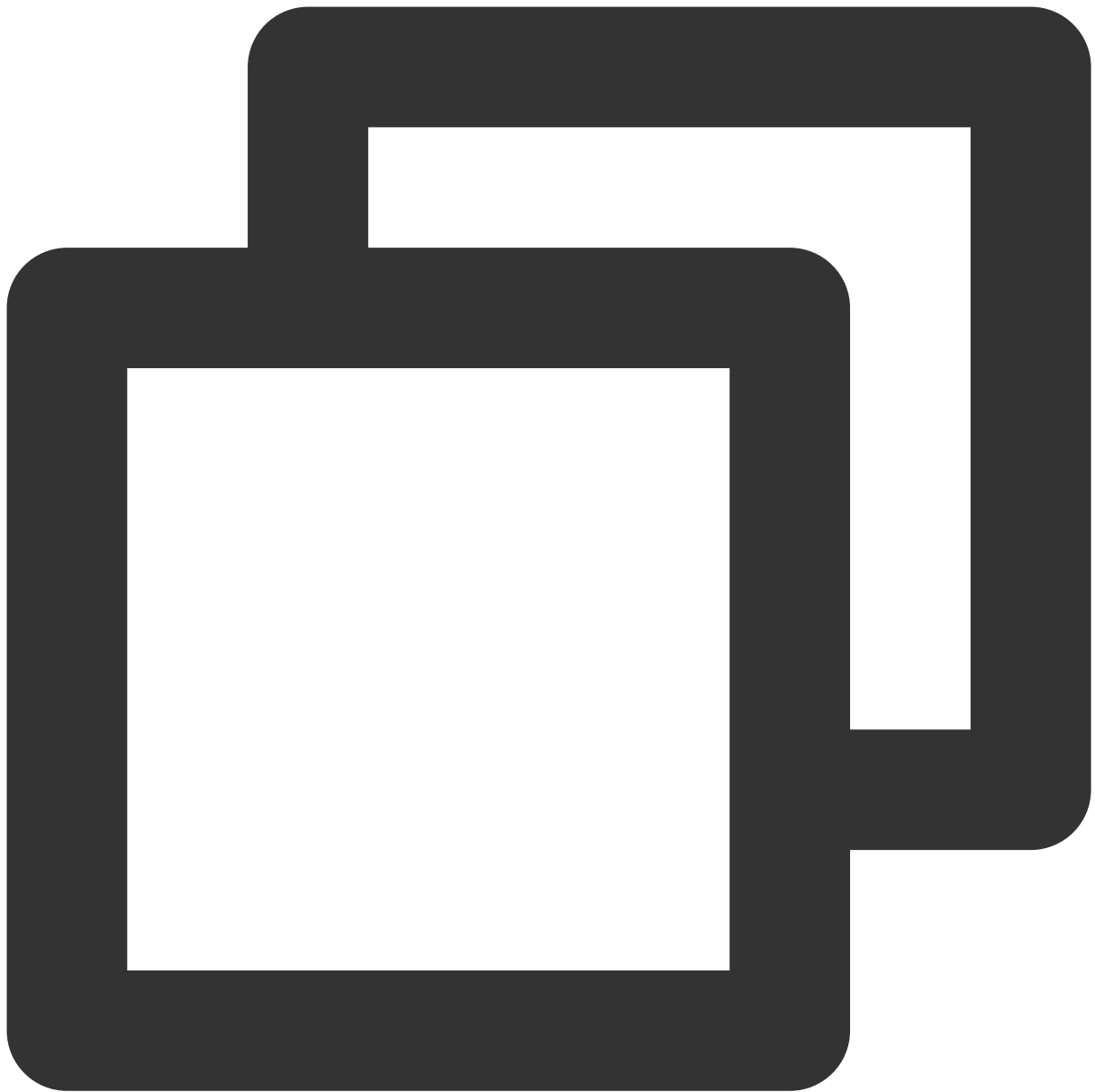
```
 }
]
},
{
 "token": "token2",
 "account_list": [
 {
 "account": "926@163.com"
 },
 {
 "account": "1527000001"
 }
]
}
]
```

Unbind the token from all accounts



```
{
 "operator_type": 4,
 "token_list": [
 "token1",
 "token2",
 "token3"
]
}
```

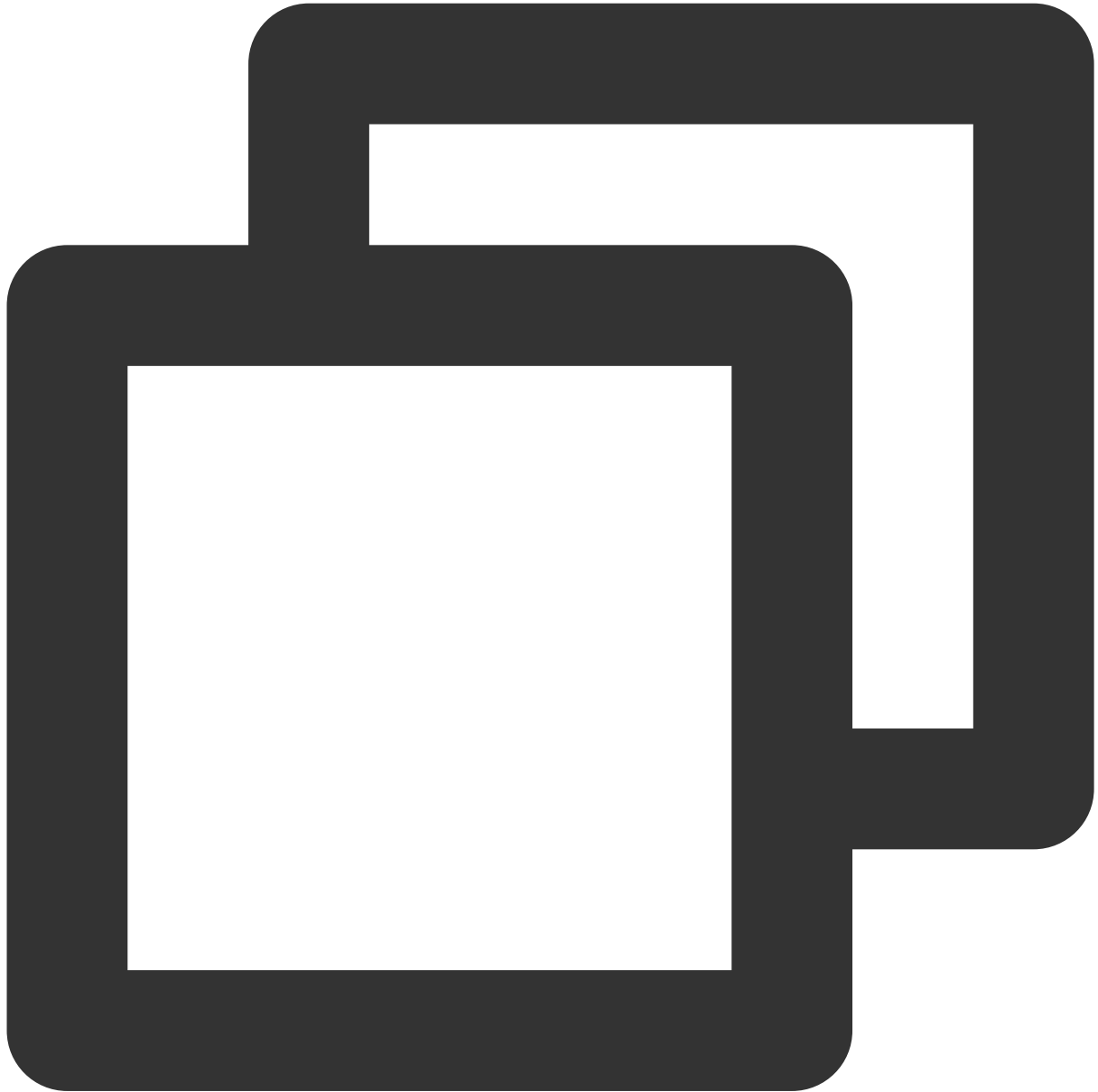
Unbind an account from all tokens



```
{
 "operator_type": 5,
 "account_list": [
 {
 "account": "926@126.com"
 },
 {
 "account": "1527000000"
 }
]
}
```

### Response example

Unbind a token from an account



```
{
 "ret_code": 0,
 "err_msg": "NO_ERROR",
 "result": [
 "0"
]
}
```

```
}
```

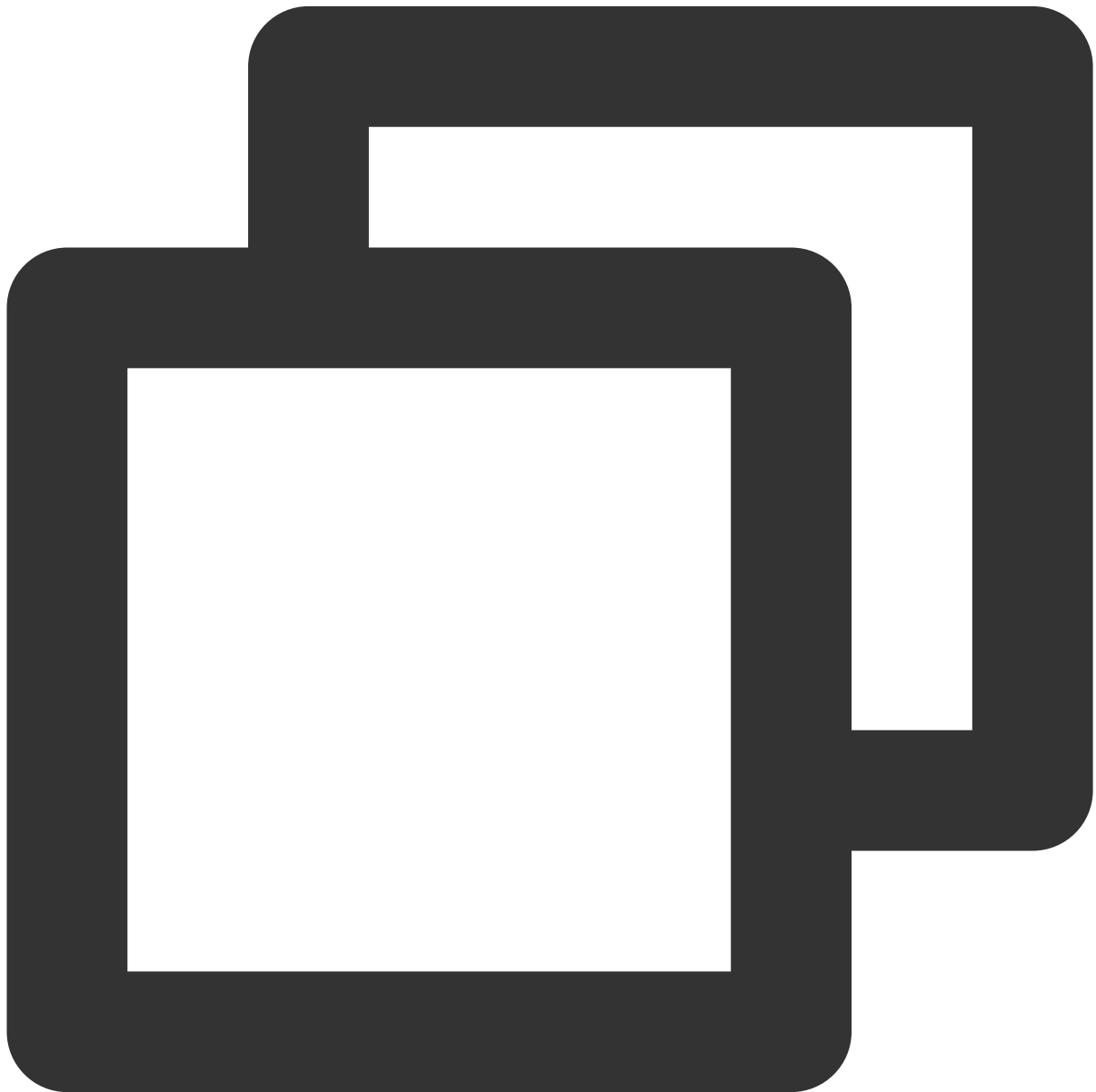


# Account and Device Binding Query

Last updated : 2024-01-17 14:26:44

## API Description

**Request method:** POST



Service URL/v3/device/account/query

API service URLs correspond to service access points one to one. Please select the [service URL](#) corresponding to the service access point of your application.

**Feature:** this API is used to query the binding relationships between accounts and tokens.

## Parameters

### Request parameters

| Parameter     | Type    | Required | Description                                                                                                                                                                                                  |
|---------------|---------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| operator_type | Integer | Yes      | Operation type:<br>1 : Batch query tokens by account<br>2 : Query accounts by token                                                                                                                          |
| account_list  | Array   | No       | Account list. This parameter is valid and required when <code>operator_type</code> is 1 . Each element of the list contains one set of accounts. Example: [{"account": "account1"}, {"account": "account2"}] |
| token_list    | Array   | No       | Token list. This parameter is valid and required when <code>operator_type</code> is 2 .                                                                                                                      |

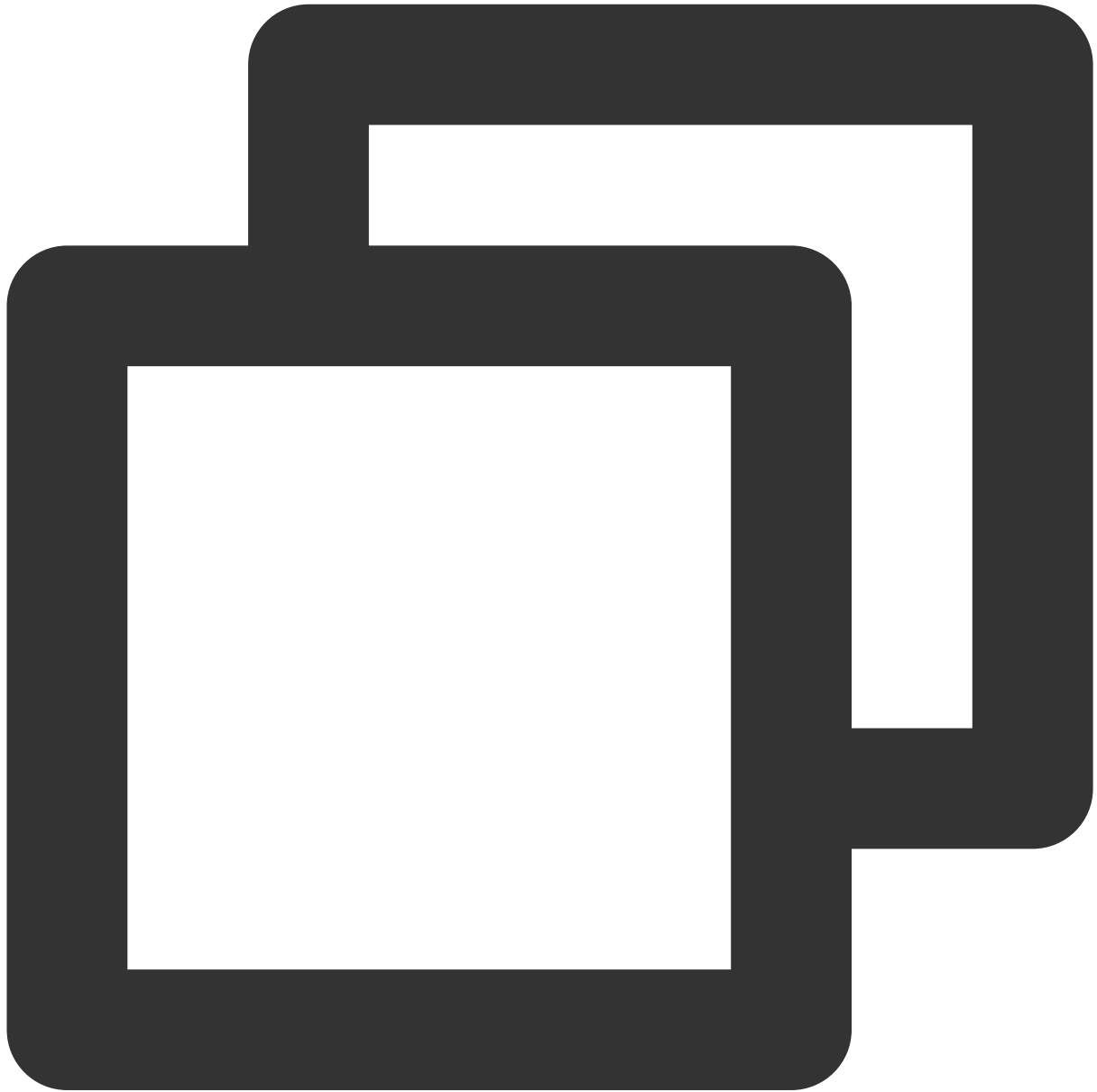
### Response parameters

| Parameter      | Type    | Description                                                                                                                                                                                                                                             |
|----------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| retCode        | Integer | Error code. For more information, please see <a href="#">Server-Side Error Codes</a> .                                                                                                                                                                  |
| errMsg         | String  | Error message                                                                                                                                                                                                                                           |
| account_tokens | Array   | Array of mappings from accounts to tokens.<br>Example: [{"account": "account1", "token_list": ["token1", "token2"]}, {"account": "account2", "token_list": ["token2", "token3"]} ]                                                                      |
| token_accounts | Array   | Array of mappings from tokens to accounts<br>Example:<br>[{"token": "token1", "account_list": [{"account": "926@126.com"}, {"account": "1527000000", }]}, {"token": "token2", "account_list": [{"account": "926@163.com"}, {"account": "1527000001"}]}] |

## Samples

### Sample request

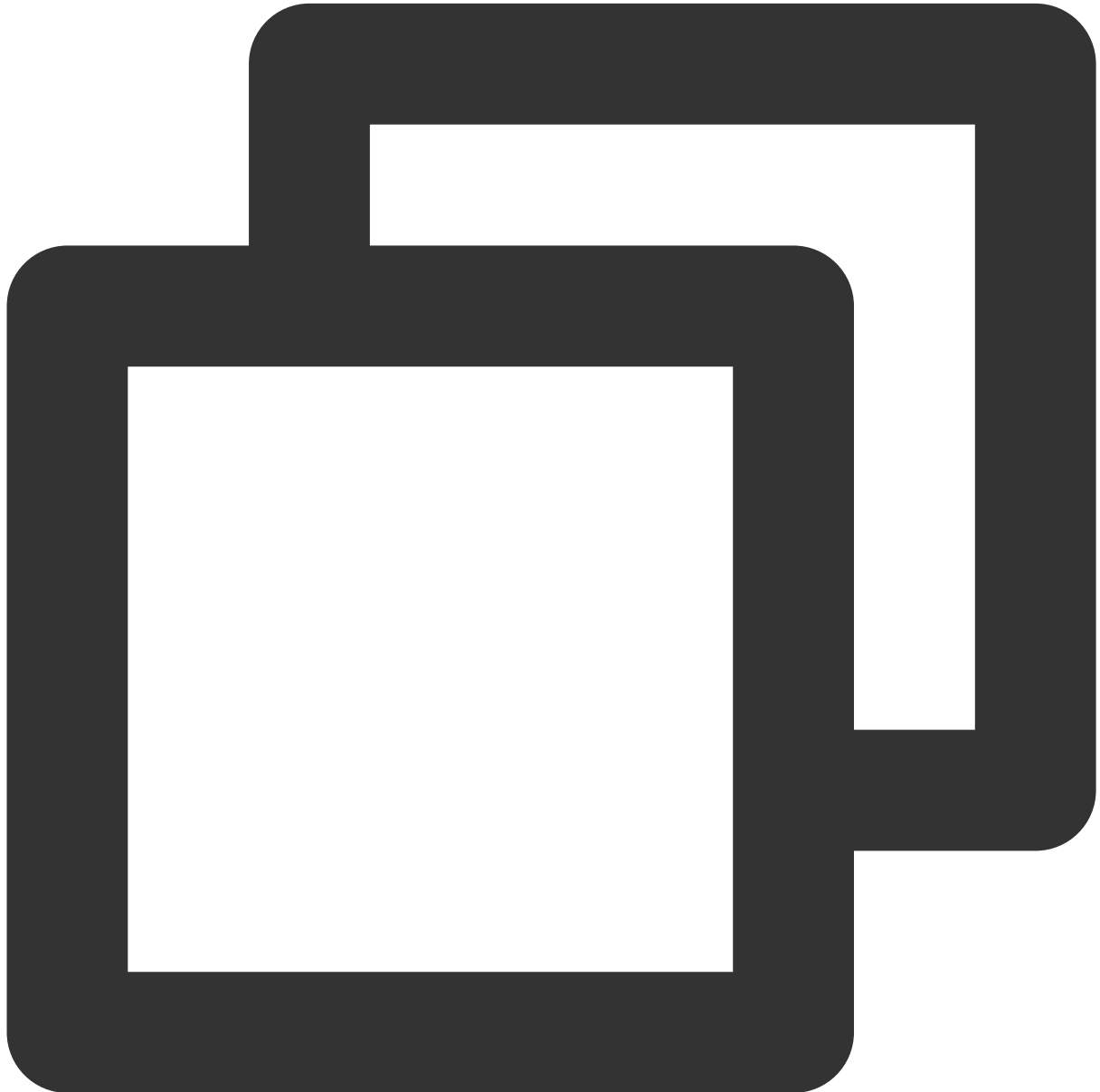
Batch query the relationships of tokens bound to accounts



```
{
 "operator_type": 1,
 "account_list": [
 {
 "account": "account1"
 }
]
}
```

```
 },
 {
 "account": "account2"
 }
]
}
```

Batch query the relationships of accounts bound to tokens

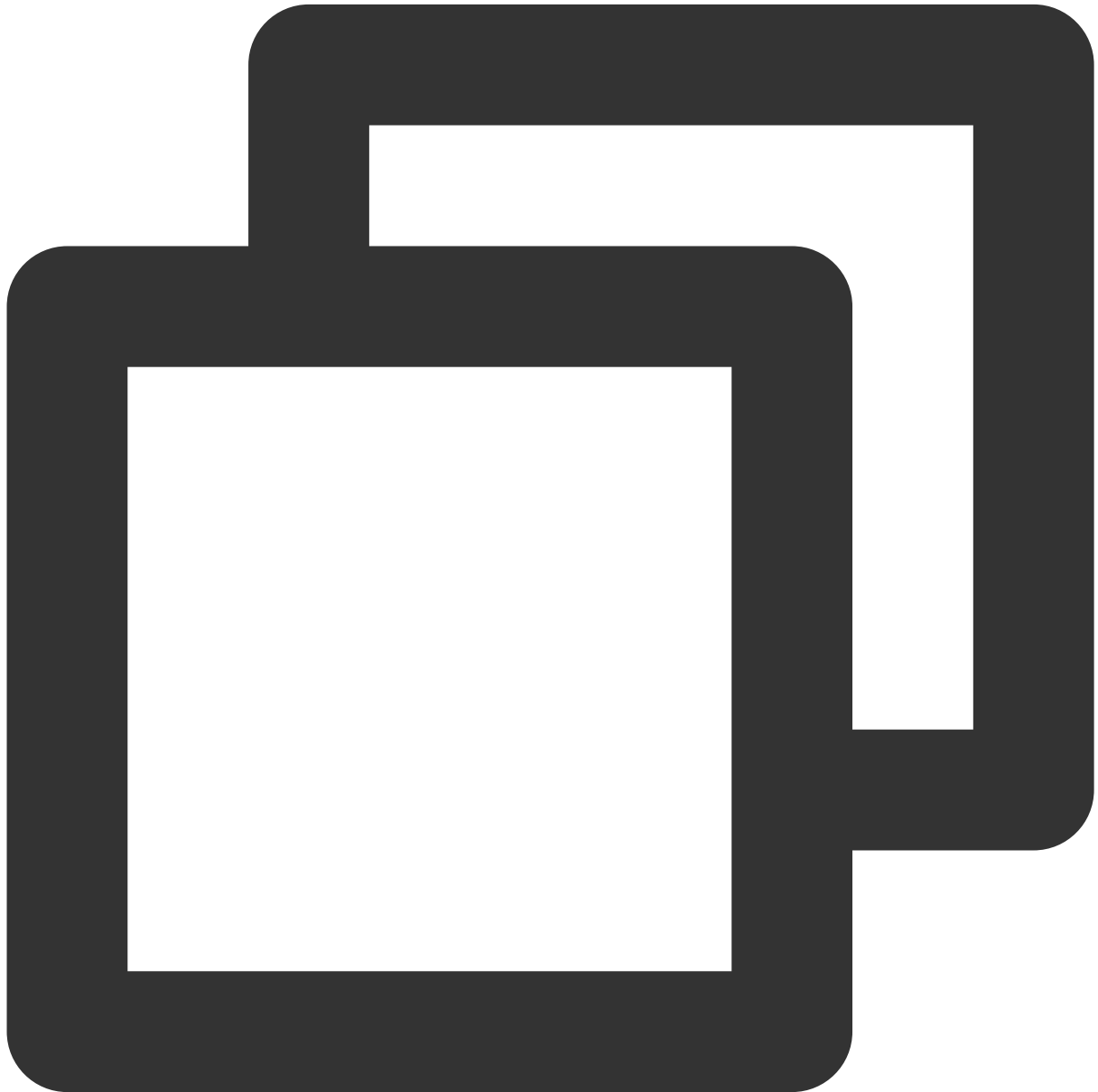


```
{
 "operator_type": 2,
 "token_list": [
 {
 "account": "account2"
 }
]
}
```

```
 "token1",
 "token2"
]
}
```

### Sample response

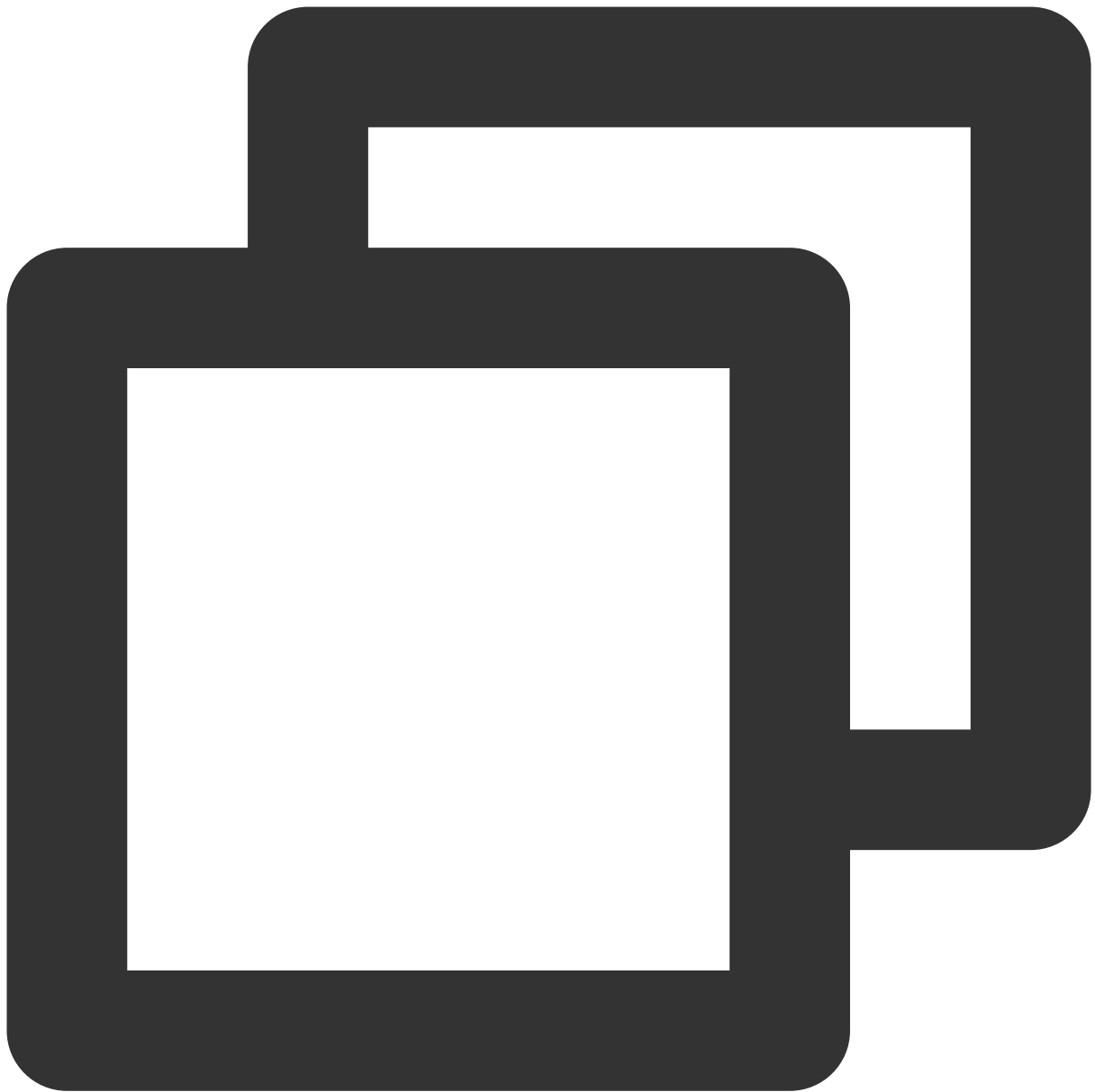
Batch query the tokens bound to accounts



```
{
 "retCode": 0,
}
```

```
"errMsg": "ok",
"result": [
 "0",
 "0"
],
"account_tokens": [
 {
 "account": "account1",
 "token_list": [
 "token1",
 "token2"
]
 },
 {
 "account": "account2",
 "token_list": [
 "token2",
 "token3"
]
 }
]
```

Batch query the accounts bound to tokens



```
{
 "retCode": 0,
 "errMsg": "ok",
 "result": [
 "0",
 "0"
],
 "token_accounts": [
 {
 "token": "token1",
 "account_list": [
```

```
 {
 "account": "926@126.com"
 },
 {
 "account": "1527000000"
 }
]
},
{
 "token": "token2",
 "account_list": [
 {
 "account": "926@163.com"
 },
 {
 "account": "1527000001"
 }
]
}
]
```



# Statistics APIs

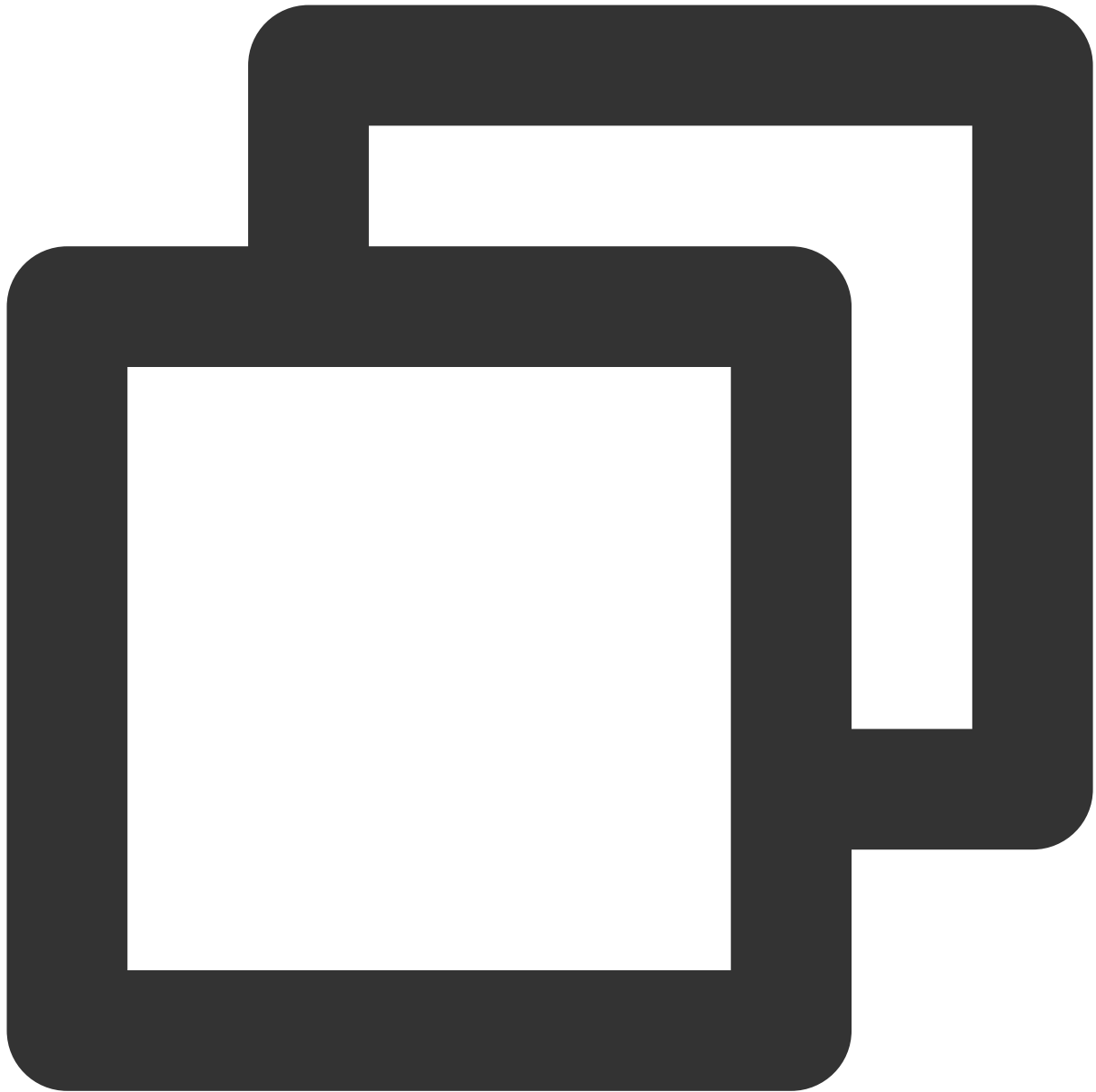
## Querying Daily Aggregated Push Statistics

Last updated : 2024-01-17 14:26:44

### API Description

**Request method:** POST.

**Calling frequency limit:** 200 times/hour.



```
request address/v3/statistics/get_push_channel_stat_overview
```

The API request address is corresponding to the service access point. Select the [request address](#) corresponding to the service access point of your application.

**Feature:** this API is used to query the daily push conversion summary within a certain time period by push channel.

## Parameter Description

**Request parameters**

| Parameter Name | Required | Type   | Description                                                                                  |
|----------------|----------|--------|----------------------------------------------------------------------------------------------|
| startDate      | Yes      | String | Query start date<br>Format: YYYYMMDD<br>Limit: only data in the last 6 months can be queried |
| endDate        | Yes      | String | Query end date. Format: YYYYMMDD                                                             |

**Response parameters**

| Parameter Name      | Type    | Description                                                                                                                                                                                                                                    |
|---------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| retCode             | Integer | Returned status code                                                                                                                                                                                                                           |
| errMsg              | String  | Error message                                                                                                                                                                                                                                  |
| pushDateChannelStat | Array   | Returned result: result array by day.<br>Individual elements in the array represent daily statistics by channel, formed by <code>date</code> and <code>channelDatas</code> . The element structure of <code>channelDatas</code> is as follows. |

**channelDatas**

| Parameter Name | Type   | Description                                                                                                                                                                                                                                                                                                                                                     |
|----------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| channel        | String | Push channel name<br>xg: Tencent Push Notification Service channel<br>hw: Huawei channel<br>xm: Mi channel<br>mz: Meizu channel<br>oppo: OPPO channel<br>vivo: vivo channel<br>apns: APNs channel<br>fcm: FCM channel<br>rog: ROG channel<br>apns: Apple channel<br>iospk: Apple PushKit channel (available only in International Site)<br>honor: Honor channel |
| pushState      | Object | Push funnel statistics. For the data structures, please see pushState below.                                                                                                                                                                                                                                                                                    |

**pushState (Android)**

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

| Parameter Name      | Type    | Description                                                                                                                                                                                                                                                                                                                                                             |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pushActiveUv        | Integer | Scheduled<br>Number of available devices connected to the Internet within 90 days that meet the target push conditions and on which the notification bar is enabled.                                                                                                                                                                                                    |
| pushOnlineUv        | Integer | Sent<br>Actual number of available devices in the scheduled devices that have been delivered to vendor channels or to process online terminal using Tencent Push Notification Service channel.                                                                                                                                                                          |
| arrivalUv           | Integer | Number of reached devices (including arrival receipts for the Tencent Push Notification Service and vendor channels. For the Huawei and Meizu channels, you need to add a configuration item for arrival receipt manually. For more information, please see <a href="#">Acquisition of Vendor Channel Arrival Receipt</a> )                                             |
| verifySvcUv         | Integer | Number of reached devices (only valid for Tencent Push Notification Service, ROG, and FCM channels. For other vendor channels, the pushOnlineUv metric of actual deliveries by Tencent Push Notification Service will be used).<br><b>Note:</b> this field will be disused subsequently. You are recommended to check the arrivalUv field for arrival data.             |
| callbackVerifySvcUv | Integer | Arrival receipt for vendor channel (for the Huawei and Meizu channels, you need to add a configuration item for arrival receipt manually. For more information, please see <a href="#">Acquisition of Vendor Channel Arrival Receipt</a> ).<br><b>Note:</b> this field will be disused subsequently. You are recommended to check the arrivalUv field for arrival data. |
| clickUv             | Integer | Clicked                                                                                                                                                                                                                                                                                                                                                                 |
| cleanupUv           | Integer | Cleared                                                                                                                                                                                                                                                                                                                                                                 |

**Note:**

The "all" channel in the array corresponds to the aggregated statistics.

In the aggregated statistics, the `verifySvcUv` (reached devices), `verifyUv` (displayed), `clickUv` (clicked), and `cleanupUv` (cleared) metrics only aggregates the data of the Tencent Push Notification Service, ROG, and FCM channels.

In the aggregated statistics, `pushActiveUv` (attempted) and `pushOnlineUv` (sent) aggregates the data of the Tencent Push Notification Service channel and vendor channels.

In the aggregated statistics, `callbackVerifySvcUv` (arrival receipt of vendor channel) aggregates the data of vendor channel's `callbackVerifySvcUv` (arrival receipt of vendor channel) + Tencent Push Notification Service

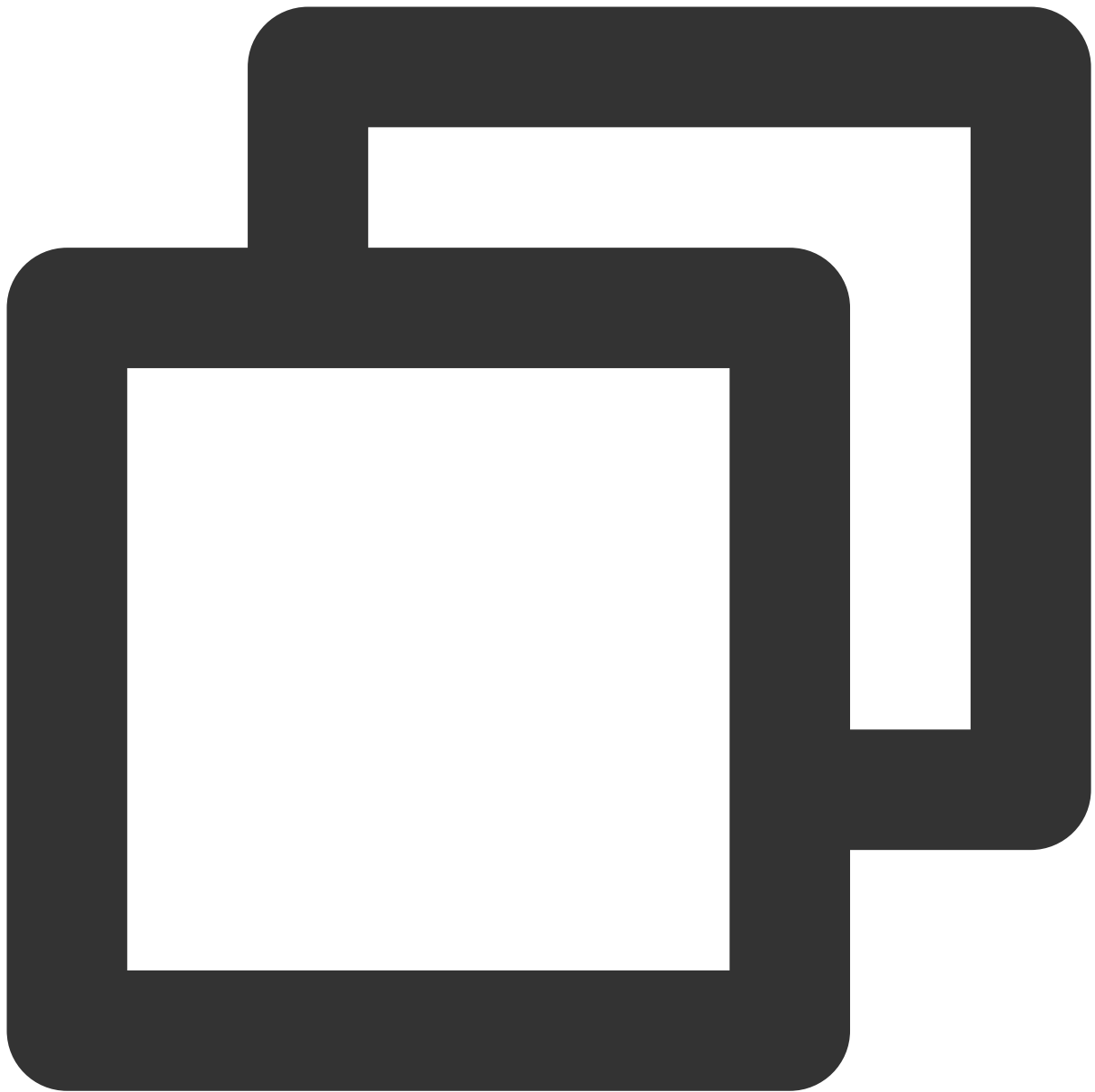
channel's `verifySvcUv` (reached devices) + ROG channel's `verifySvcUv` (reached devices) + FCM channel's `verifySvcUv` (device reached).

### pushState (iOS)

| Parameter Name | Type    | Description                   |
|----------------|---------|-------------------------------|
| pushActiveUv   | Integer | Attempted                     |
| pushOnlineUv   | Integer | Successfully received by APNs |
| verifySvcUv    | Integer | Reached                       |
| clickUv        | Integer | Clicked                       |

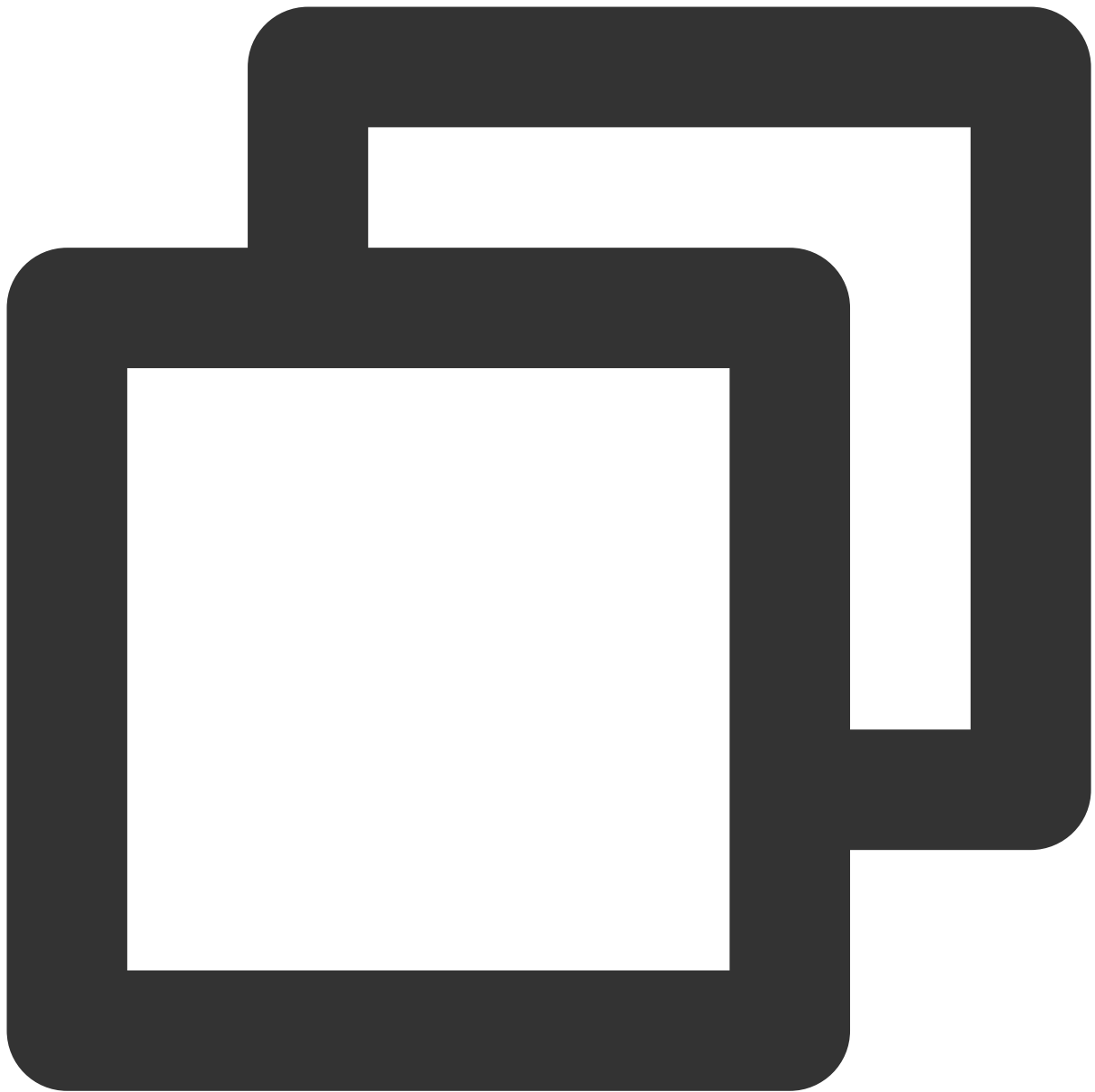
## Samples

### Sample request



```
{
 "startDate": "20200216",
 "endDate": "20200216"
}
```

### Sample response



```
{
 "retCode": 0,
 "errMsg": "NO_ERROR",
 "pushDateChannelStat": [
 {
 "date": "20200216",
 "channelDatas": [
 {
 "channel": "xm",
 "pushState": {
 "pushActiveUv": 1000,

```

```
 "pushOnlineUv": 1000,
 "verifySvcUv": 1000,
 "callbackVerifySvcUv": 800,
 "arrivalUv": 1000,
 "verifyUv": 1000,
 "clickUv": 0,
 "cleanupUv": 0
 }
},
{
 "channel": "hw",
 "pushState": {
 "pushActiveUv": 1000,
 "pushOnlineUv": 1000,
 "verifySvcUv": 1000,
 "callbackVerifySvcUv": 800,
 "arrivalUv": 1000,
 "verifyUv": 1000,
 "clickUv": 0,
 "cleanupUv": 0
 }
},
{
 "channel": "oppo",
 "pushState": {
 "pushActiveUv": 1000,
 "pushOnlineUv": 1000,
 "verifySvcUv": 1000,
 "callbackVerifySvcUv": 800,
 "arrivalUv": 1000,
 "verifyUv": 1000,
 "clickUv": 0,
 "cleanupUv": 0
 }
},
{
 "channel": "xg",
 "pushState": {
 "pushActiveUv": 1000,
 "pushOnlineUv": 800,
 "verifySvcUv": 800,
 "callbackVerifySvcUv": 0,
 "arrivalUv": 1000,
 "verifyUv": 800,
 "clickUv": 300,
 "cleanupUv": 500
 }
}
```



```
 },
 {
 "channel": "all",
 "pushState": {
 "pushActiveUv": 4000,
 "pushOnlineUv": 3800,
 "verifySvcUv": 3800,
 "callbackVerifySvcUv": 2400,
 "arrivalUv": 3800,
 "verifyUv": 3800,
 "clickUv": 300,
 "cleanupUv": 500
 }
 }
]
}
]
```

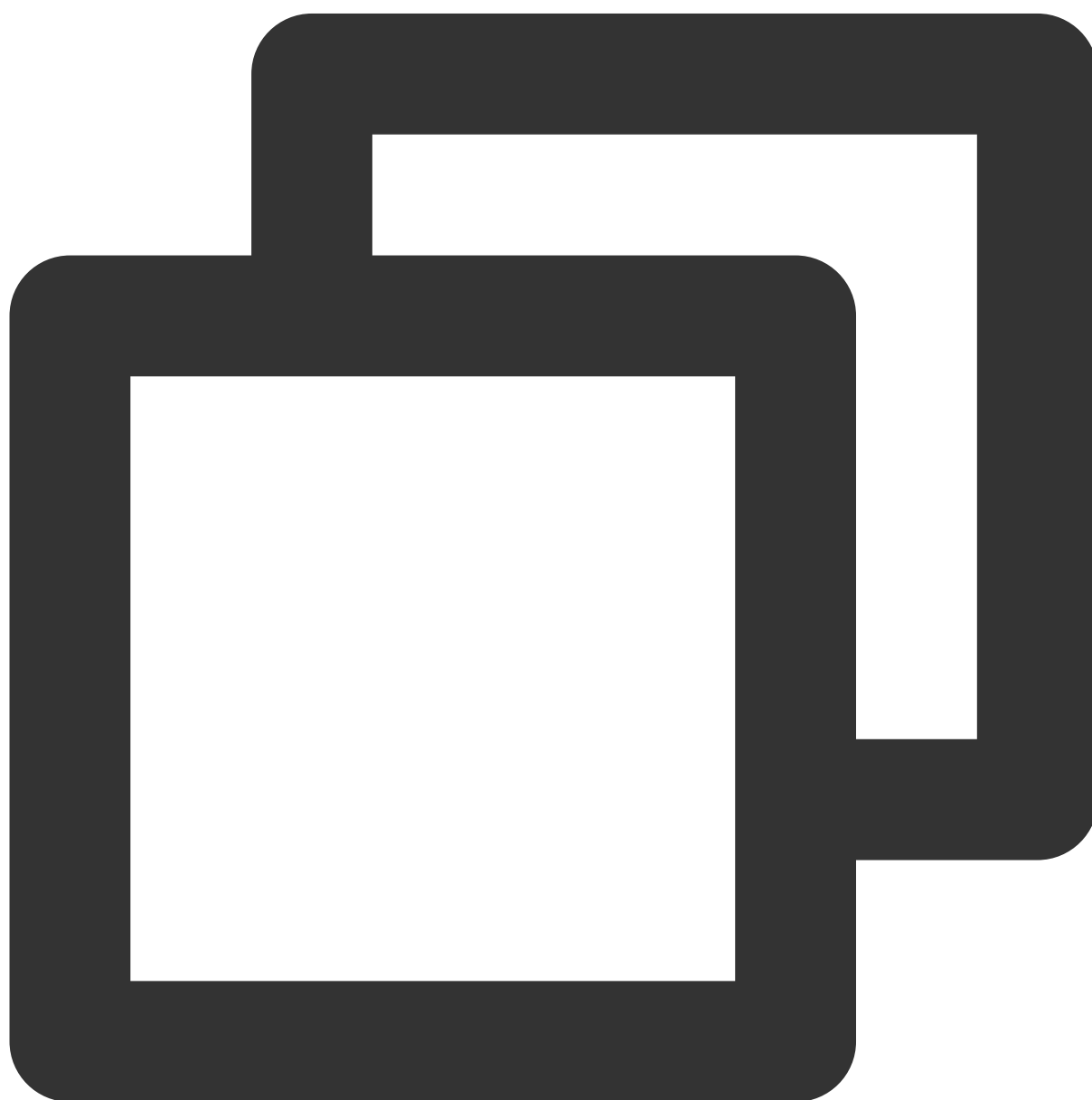
# Querying Device Statistics

Last updated : 2024-01-17 14:26:44

## API Description

**Request method:** POST.

**Calling frequency limit:** 200 times/hour.



```
request address/v3/statistics/get_device_stat_overview
```

The API request address is corresponding to the service access point. Select the [request address](#) corresponding to the service access point of your application.

**Feature:** this API is used to query "daily new devices", "daily active users", and "historically accumulated devices" of the application within a certain time period.

## Parameter Description

### Request parameters

| Parameter Name | Required | Type   | Description                                                                                  |
|----------------|----------|--------|----------------------------------------------------------------------------------------------|
| startDate      | Yes      | String | Query start date<br>Format: YYYYMMDD<br>Limit: only data in the last 3 months can be queried |
| endDate        | Yes      | String | Query end date. Format: YYYYMMDD                                                             |

### Response parameters

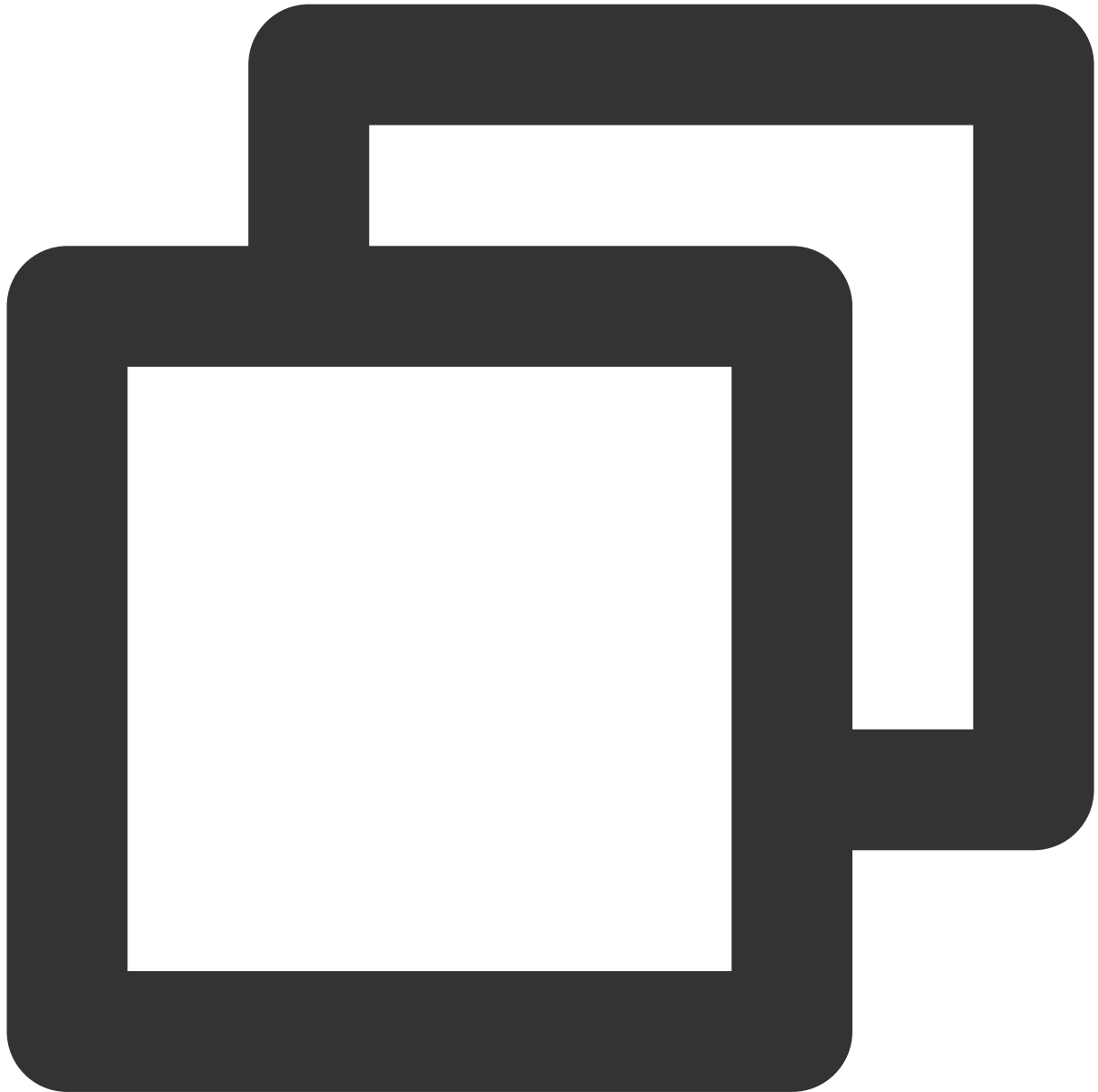
| Parameter Name            | Type    | Description                                                                                               |
|---------------------------|---------|-----------------------------------------------------------------------------------------------------------|
| retCode                   | Integer | Returned status code                                                                                      |
| errMsg                    | String  | Error message                                                                                             |
| getDeviceStatOverviewData | Array   | Returned result, with <code>getDeviceStatOverviewData</code> structure variables shown in following table |

### getDeviceStatOverviewData

| Parameter Name | Type    | Description                  |
|----------------|---------|------------------------------|
| date           | Integer | Data date                    |
| accuUv         | Integer | Accumulated devices          |
| newUv          | Integer | Daily new devices            |
| activeUv       | Integer | Daily peak of online devices |

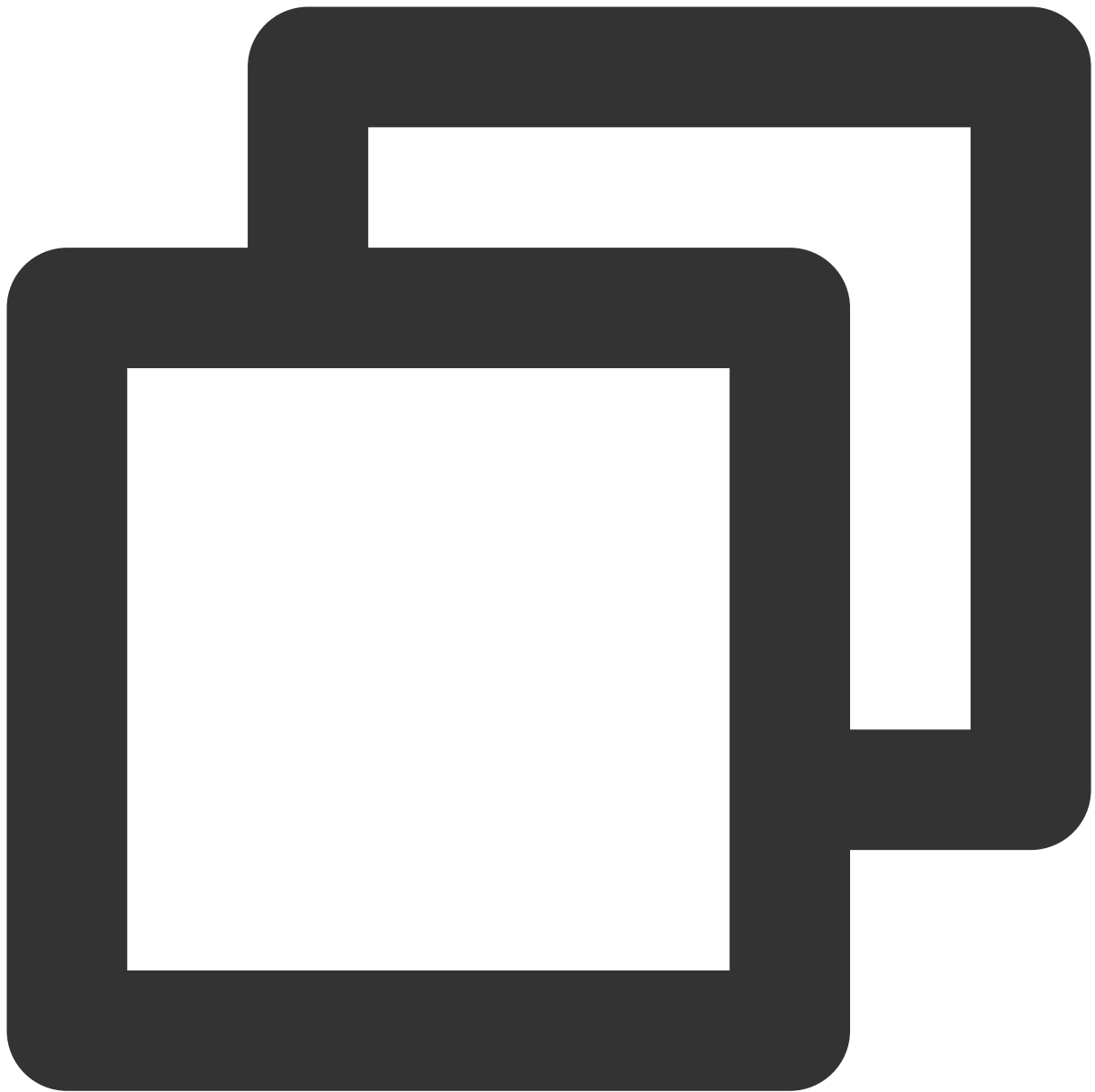
## Samples

### Sample request



```
{
 "startDate": "20190724",
 "endDate": "20190726"
}
```

### Sample response



```
{
 "retCode": 0,
 "errMsg": "",
 "getDeviceStatOverviewData": [
 {
 "date": 20190724,
 "accuUv": 0,
 "newUv": 0,
 "activeUv": 0
 },
 {
```

```
 "date": 20190725,
 "accuUv": 0,
 "newUv": 5,
 "activeUv": 0
 },
 {
 "date": 20190726,
 "accuUv": 5,
 "newUv": 0,
 "activeUv": 2
 }
]
}
```

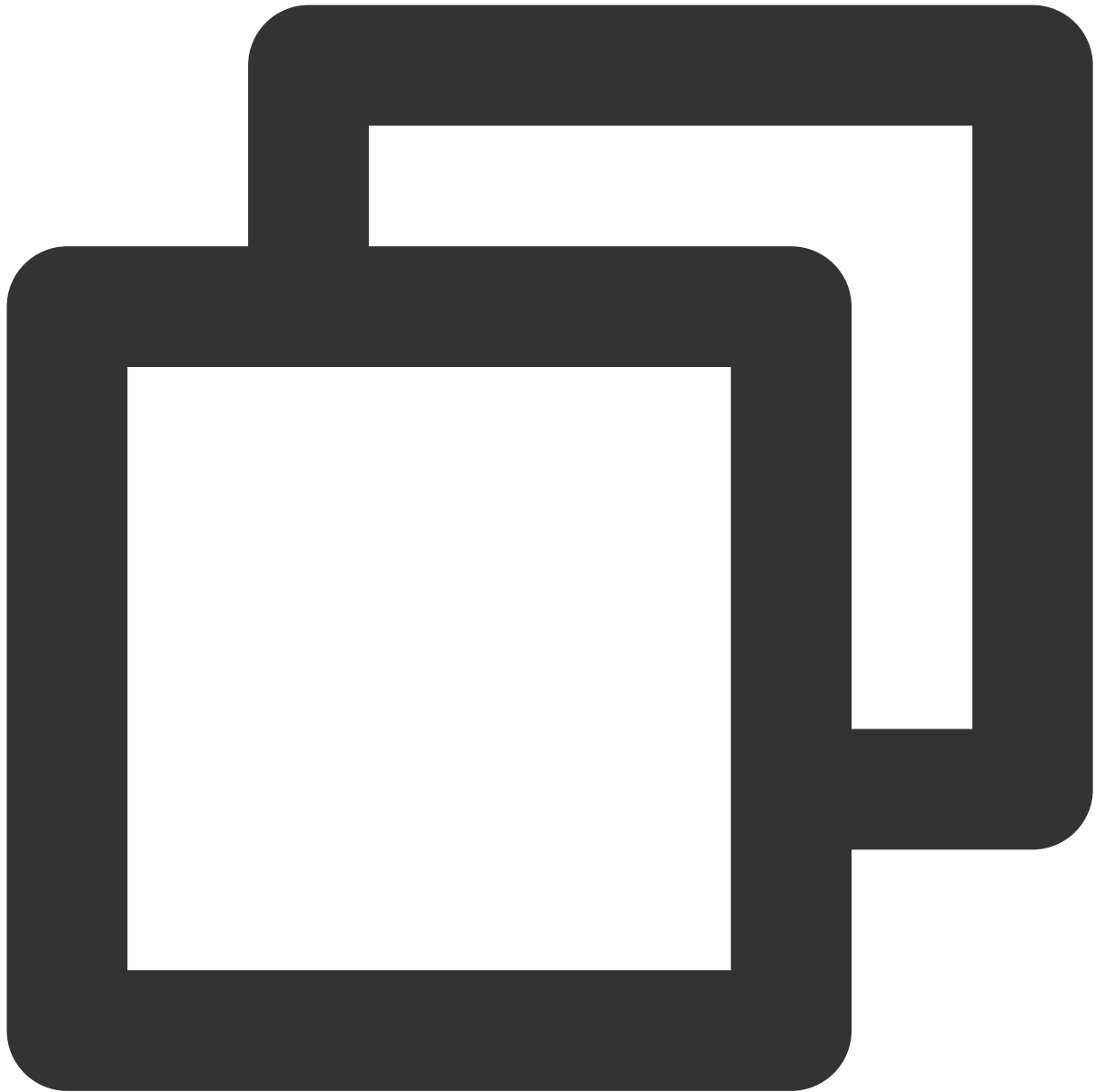
# Querying All Push Information in Specific Period

Last updated : 2024-01-17 14:26:44

## API Description

**Request method:** POST

**Calling frequency limit:** 200 times/hour.



```
request address/v3/statistics/get_push_record
```

The API request address is corresponding to the service access point. Select the [request address](#) corresponding to the service access point of your application.

**Feature:** this API is used to query the basic information and settings of all tasks within a specified time range.

## Parameter Description



**Request parameters**

| Parameter Name | Required | Type    | Description                                                                                                                         |
|----------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------|
| startDate      | Yes      | String  | Query start date,<br>Format: YYYY-MM-DD<br>Query limit: within the last 1 months                                                    |
| endDate        | Yes      | String  | Query end date. Format: YYYY-MM-DD                                                                                                  |
| msgType        | No       | String  | Message type:<br>notify: notification<br>message: silent message                                                                    |
| pushType       | No       | String  | Push type:<br>all: full push<br>tag: tag push<br>token: device list/device single push<br>account: account list/account single push |
| offset         | No       | Integer | Start offset for paginated query                                                                                                    |
| limit          | No       | Integer | Number of messages per page for paginated query (maximum value: 200)                                                                |

**Response parameters**

| Parameter Name | Type    | Description                                                                                          |
|----------------|---------|------------------------------------------------------------------------------------------------------|
| retCode        | Integer | Returned status code                                                                                 |
| errMsg         | String  | Error message                                                                                        |
| pushRecordData | Array   | Returned result, with<br><code>pushRecordData</code> structure<br>variables shown in following table |
| count          | Integer | Number of eligible records                                                                           |

**pushRecordData**

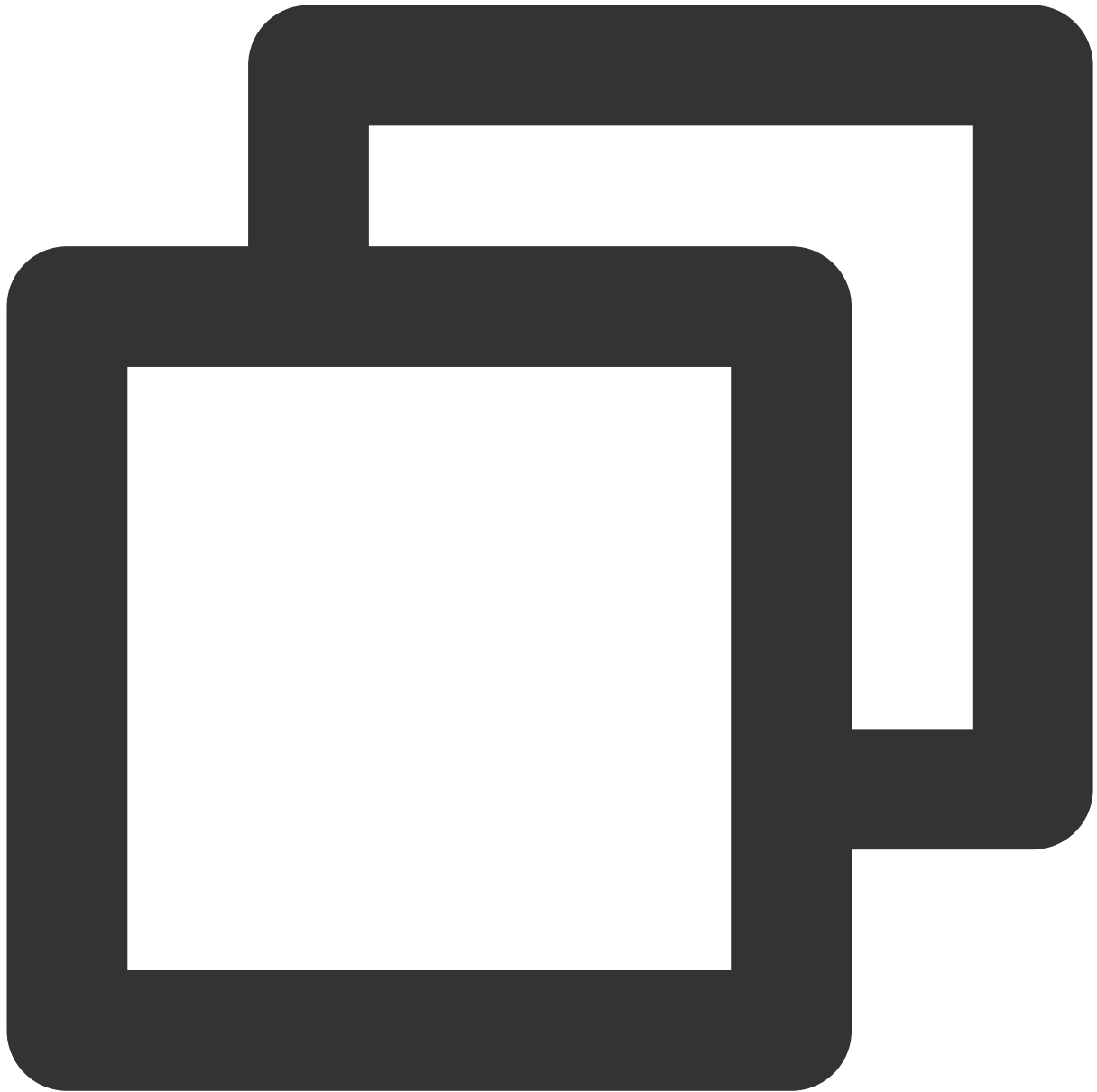
| Parameter Name | Type   | Description | Value Description           |
|----------------|--------|-------------|-----------------------------|
| date           | String | Push time   | Format: YYYY-MM-DD hh:mm:ss |
| pushId         | String | Message ID  | -                           |

|                  |               |                                       |                                                                                                                                                                                                                                                                                                                                                              |
|------------------|---------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| title            | String        | Push title                            | -                                                                                                                                                                                                                                                                                                                                                            |
| content          | String        | Push content                          | -                                                                                                                                                                                                                                                                                                                                                            |
| status           | String        | Push status                           | PUSH_INIT //Task created<br>PUSH_WAIT// Waiting for task to be scheduled<br>PUSH_STARTED// Push started<br>PUSH_FINISHED// Push finished<br>PUSH_FAILED// Push failed<br>PUSH_CANCELED// Push canceled by user<br>PUSH_DELETED// Push deleted<br>PUSH_REVOKED// Push revoked<br>PUSH_COLLAPSED// Push overwritten<br>PUSH_DELETED_PUSH_MSG// Push terminated |
| pushType         | String        | Push target                           | all //Full push<br>tag //Tag push<br>token_list //Device list<br>account_list //Account list<br>package_account_push //Number package push                                                                                                                                                                                                                   |
| messageType      | String        | Push type                             | notification //Notification<br>message //Message                                                                                                                                                                                                                                                                                                             |
| environment      | String        | Push environment                      | product //Production environment<br>dev //Development environment                                                                                                                                                                                                                                                                                            |
| expireTime       | Integer       | Expiration time                       | Unit: second                                                                                                                                                                                                                                                                                                                                                 |
| xgMediaResources | String        | Rich media information                | -                                                                                                                                                                                                                                                                                                                                                            |
| multiPkg         | Boolean       | Whether it is multi-package name push | true // Enable multi-package name push<br>false // Disable multi-package name push                                                                                                                                                                                                                                                                           |
| targetList       | Array(String) | Push account or push device list      | Valid if <code>pushType</code> is <code>token_list</code> or <code>account_list</code>                                                                                                                                                                                                                                                                       |
| collapseID       | Integer       | Message overwriting ID                | Valid if <code>pushType</code> is <code>all</code> , <code>tag</code> , or <code>package_account_push</code>                                                                                                                                                                                                                                                 |
| tagSet           | Object        | Tag settings                          | Valid if <code>pushType</code> is <code>tag</code><br>Data structure:<br><pre>{   "op": "OR", // Inter-tag logic</pre>                                                                                                                                                                                                                                       |

|            |         |                                      |                                                                                                                                                                                                           |
|------------|---------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            |         |                                      | <pre>operation "tagWithType": [ { "tagTypeName": "xg_user_define", // Tag type "tagValue": "test68" // Tag value} ] }</pre>                                                                               |
| uploadId   | Integer | Number<br>package ID                 | Valid if <code>pushType</code> is<br><code>package_account_push</code>                                                                                                                                    |
| pushConfig | Object  | Push<br>configuration<br>information | "Android": for specific push configuration<br>information related to Android, please see the<br>following code<br>"iOS": for specific push configuration related to<br>iOS, please see the following code |

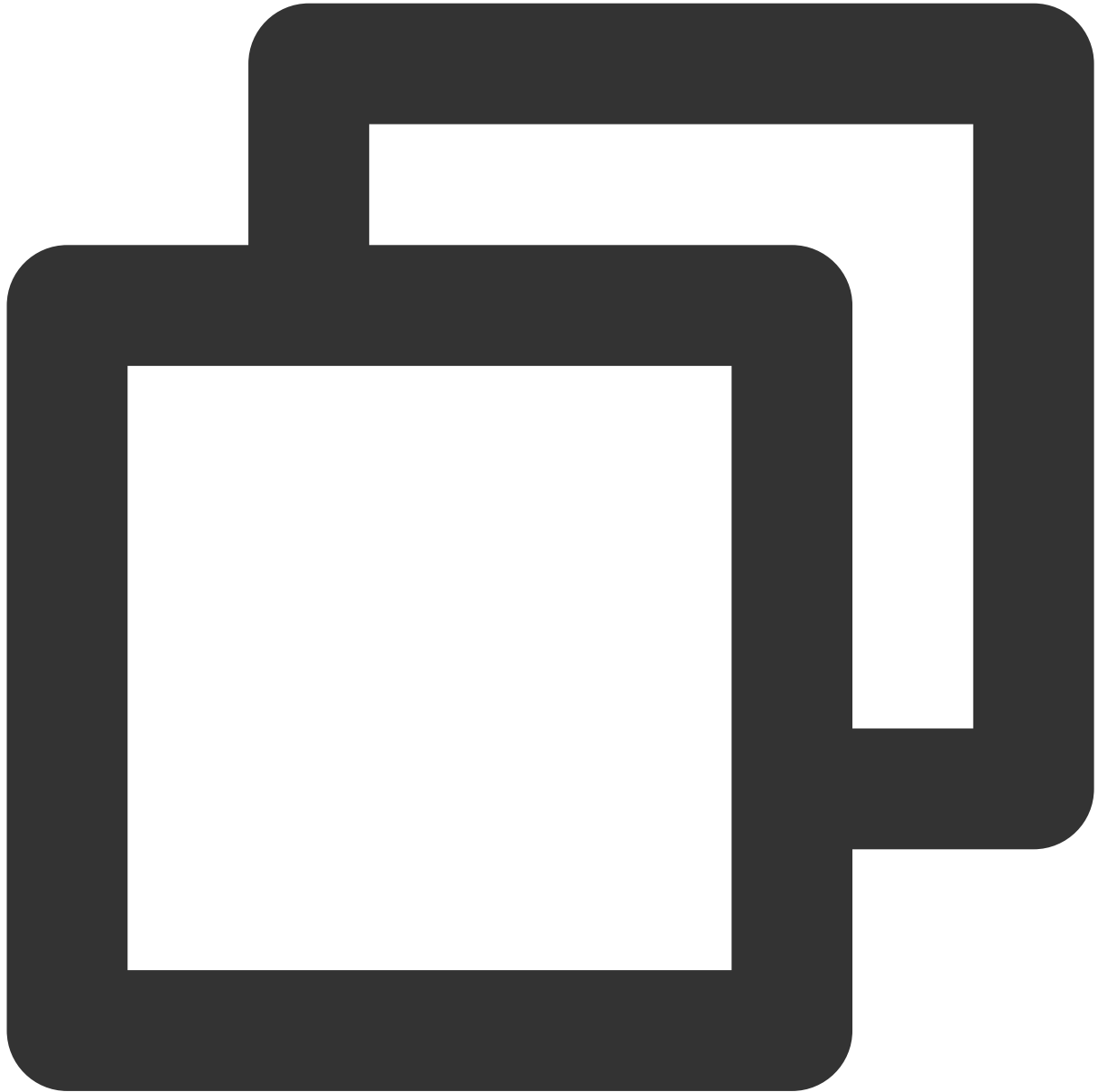
## Configuration Information

### Android push configuration information



```
"android": {
 "ring": 1, // Ring
 "vibrate": 1, // Vibrate
 "lights": 1, // LED indicator
 "clearable": 1, // Whether dismissible or not
 "action": {
 "action_type": 3, // Action type; 1. open activity or application; 2. op
 "intent": "" // The SDK version must be 1.0.9 or higher. Configure the
 },
 "custom_content": "{}"
}
```

## iOS push configuration information

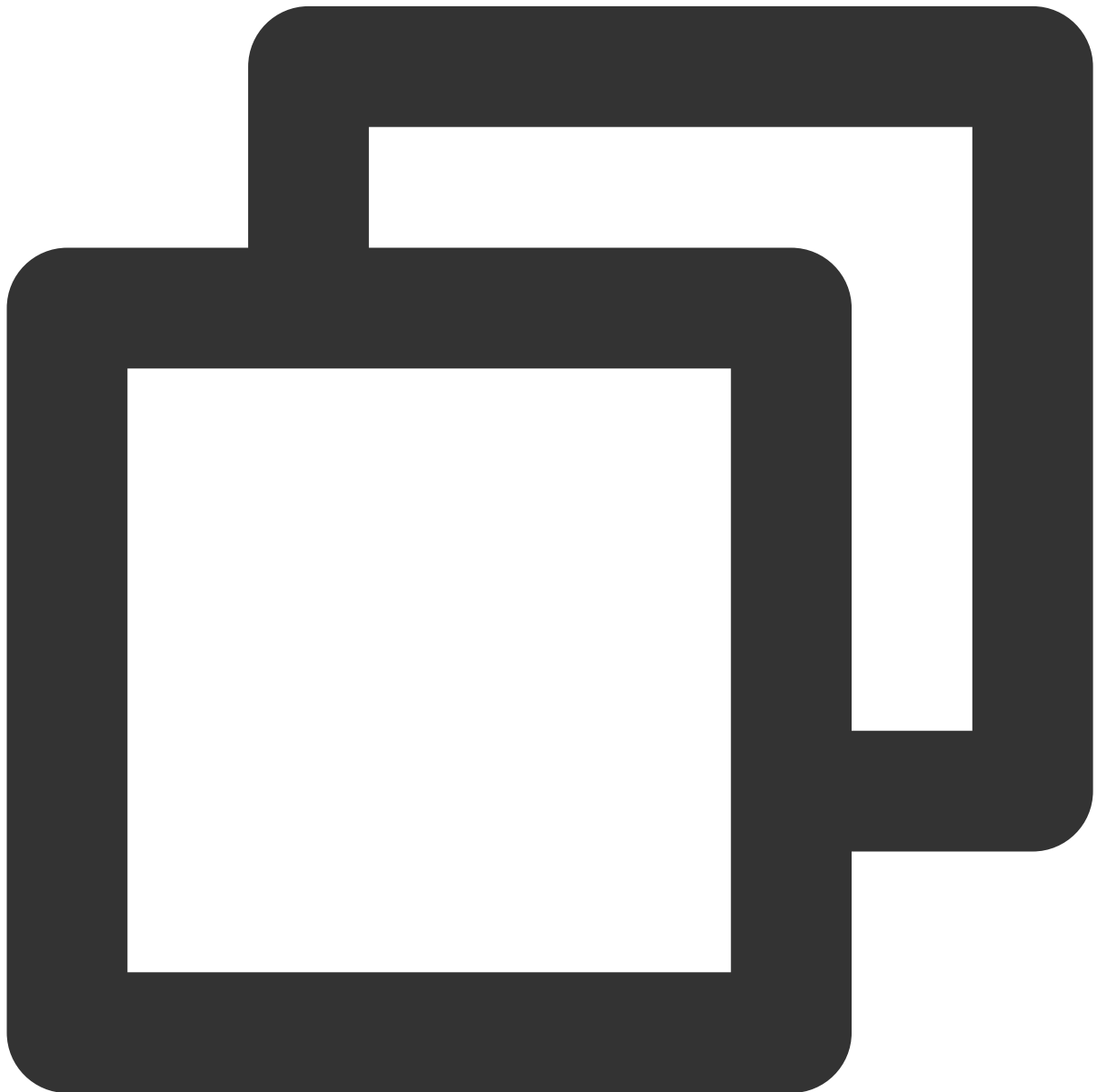


```
"ios":{
 "aps": {
 "alert": {
 "subtitle": "my subtitle"
 },
 "badge_type": 5, // Badge number displayed by application (optional). -
 "category": "INVITE_CATEGORY",
 "sound":"default", // If this parameter is left empty, the default soun
```

```
 "mutable-content":1
 },
```

## Samples

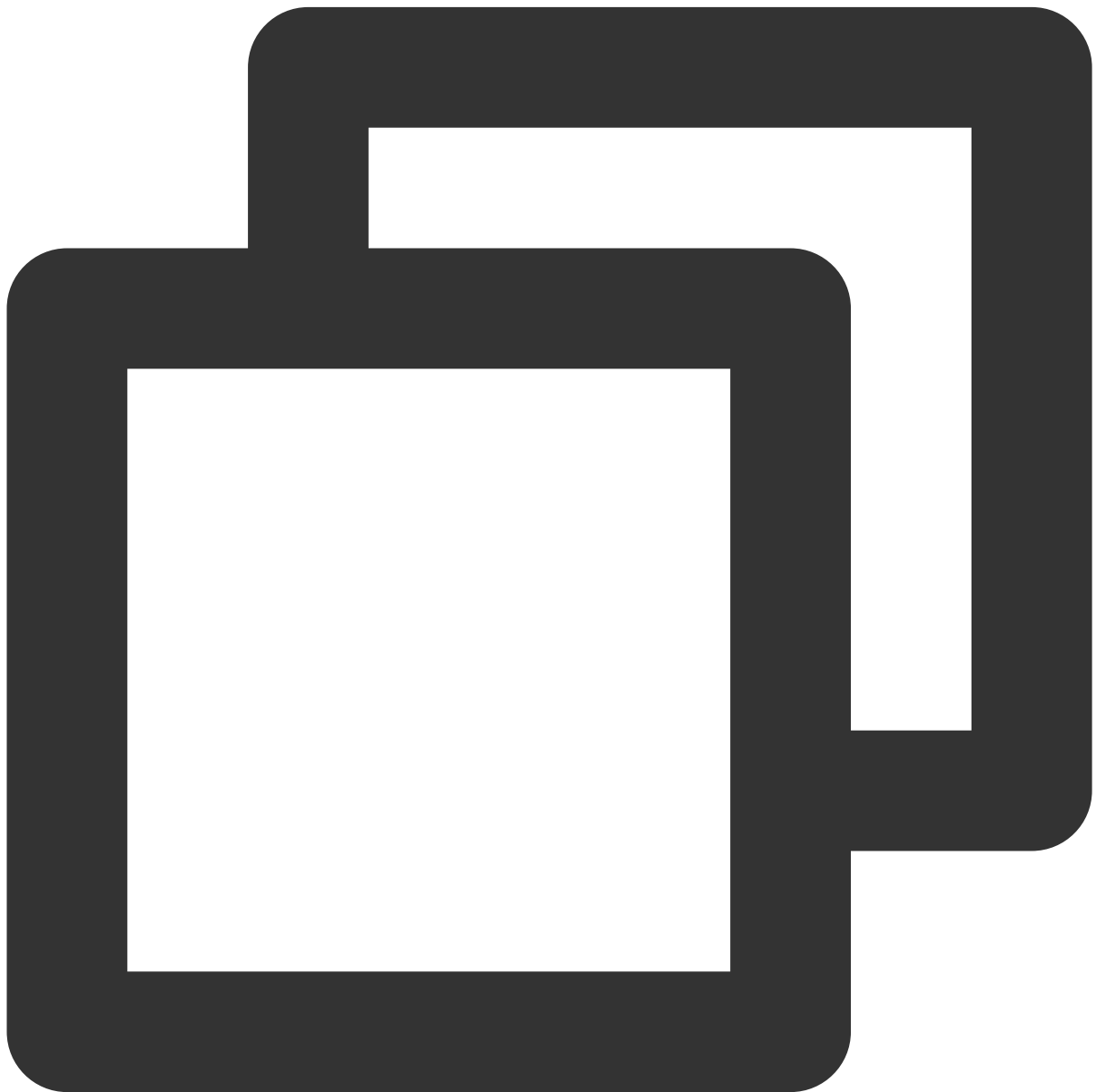
### Sample request



```
{
 "limit": 50,
```

```
"startDate": "2019-07-01",
"endDate": "2019-08-01",
"msgType": "notify",
"pushType": "all",
"offset": 0
}
```

### Sample response



```
{
 "retCode": 0,
}
```

```
"errMsg": "NO_ERROR",
"count": 126,
"pushRecordData": [
 {
 "date": "2019-11-18 11:26:54",
 "pushId": "12",
 "title": "test title",
 "content": "test log",
 "status": "PUSH_FINISHED",
 "pushType": "all",
 "targetList": null,
 "tagSet": null,
 "uploadId": 0,
 "groupId": "",
 "expireTime": 43200,
 "messageType": "notify",
 "xgMediaResources": "",
 "environment": "product",
 "pushConfig": {
 "android": {
 "n_id": 0,
 "builder_id": 0,
 "ring": 1,
 "ring_raw": "",
 "vibrate": 1,
 "lights": 1,
 "clearable": 1,
 "icon_type": 0,
 "icon_res": "",
 "style_id": 0,
 "small_icon": "",
 "action": {
 "action_type": 3,
 "activity": "",
 "aty_attr": null,
 "browser": null,
 "intent": ""
 },
 "custom_content": ""
 },
 "ios": null,
 "iot": null
 },
 "multiPkg": true,
 "source": "api"
 }
]
```



```
}
```

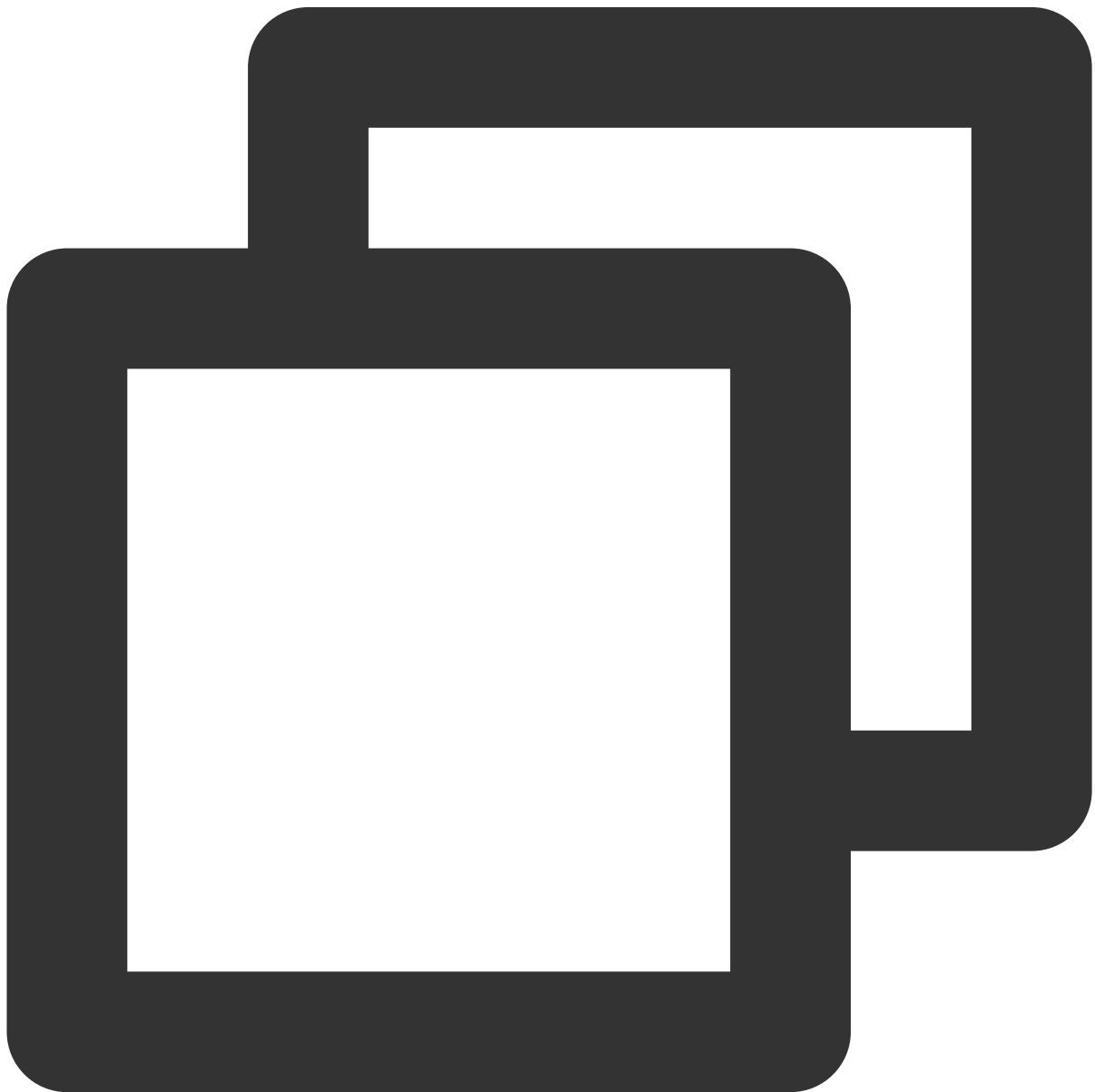
# Querying Push Information for One Task

Last updated : 2024-01-17 14:26:44

## API Description

**Request method:** POST.

**Calling frequency limit:** 200 times/hour.



```
request address/v3/statistics/get_push_record
```

The API request address is corresponding to the service access point. Select the [request address](#) corresponding to the service access point of your application.

**Feature:** this API is used to query the basic information and settings of a task by using its pushid.

## Parameter Description

### Request parameters

| Parameter Name | Required | Type   | Description                                                             |
|----------------|----------|--------|-------------------------------------------------------------------------|
| pushId         | Yes      | String | Push task ID. Only the push task for the last one month can be queried. |

### Response parameters

| Parameter Name | Type    | Description                                                                                    |
|----------------|---------|------------------------------------------------------------------------------------------------|
| retCode        | Integer | Returned status code                                                                           |
| errMsg         | String  | Error message                                                                                  |
| pushRecordData | Array   | Returned result, with <code>pushRecordData</code> structure variables shown in following table |

### pushRecordData

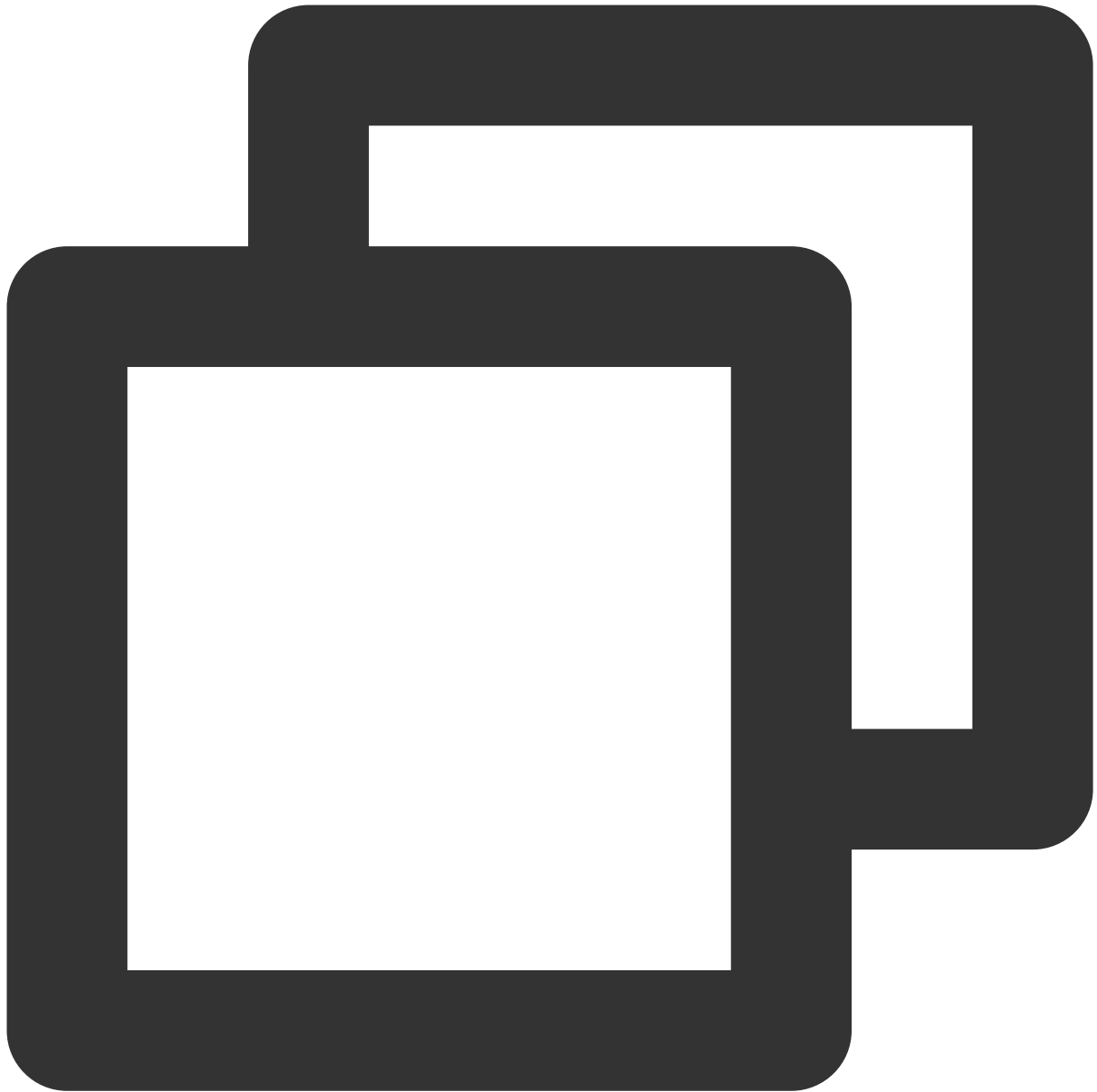
| Parameter Name | Type   | Description  | Value Description                                                                                                                        |
|----------------|--------|--------------|------------------------------------------------------------------------------------------------------------------------------------------|
| date           | String | Push time    | Format: YYYY-MM-DD hh:mm:ss                                                                                                              |
| pushId         | String | Message ID   | -                                                                                                                                        |
| title          | String | Push title   | -                                                                                                                                        |
| content        | String | Push content | -                                                                                                                                        |
| status         | String | Push status  | PUSH_INIT //Task created<br>PUSH_WAIT// Waiting for task to be scheduled<br>PUSH_STARTED// Push started<br>PUSH_FINISHED// Push finished |

|                  |               |                                       |                                                                                                                                                                                                                                                       |
|------------------|---------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  |               |                                       | PUSH_FAILED// Push failed<br>PUSH_CANCELED// Push canceled by user<br>PUSH_DELETED// Push deleted<br>PUSH_REVOKED// Push revoked<br>PUSH_COLLAPSED// Push overwritten<br>PUSH_DELETED_PUSH_MSG// Push terminated                                      |
| pushType         | String        | Push target                           | all // Full push<br>tag // Tag push<br>token_list // Device list<br>account_list // Account list<br>package_account_push // Number package push                                                                                                       |
| messageType      | String        | Push type                             | notification //Notification<br>message //Message                                                                                                                                                                                                      |
| environment      | String        | Push environment                      | product //Production environment<br>dev //Development environment                                                                                                                                                                                     |
| expireTime       | Integer       | Expiration time                       | Unit: second                                                                                                                                                                                                                                          |
| xgMediaResources | String        | Rich media information                | -                                                                                                                                                                                                                                                     |
| multiPkg         | Boolean       | Whether it is multi-package name push | true // Enable multi-package name push<br>false // Disable multi-package name push                                                                                                                                                                    |
| targetList       | Array(String) | Push account or push device list      | Valid if <code>pushType</code> is <code>token_list</code> or <code>account_list</code>                                                                                                                                                                |
| collapseID       | Integer       | Message overwriting ID                | Valid if <code>pushType</code> is <code>all</code> , <code>tag</code> , or <code>package_account_push</code>                                                                                                                                          |
| tagSet           | Object        | Tag settings                          | Valid if <code>pushType</code> is <code>tag</code><br>Data structure:<br><pre> {   "op": "OR", // Inter-tag logic operation   "tagWithType": [     { "tagTypeName": "xg_user_define", // Tag type       "tagValue": "test68" //Tag value}   ] }</pre> |

|            |         |                                      |                                                                                                                                                                                                           |
|------------|---------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| uploadId   | Integer | Number<br>package ID                 | Valid if <code>pushType</code> is<br><code>package_account_push</code>                                                                                                                                    |
| pushConfig | Object  | Push<br>configuration<br>information | "Android": for specific push configuration<br>information related to Android, please see the<br>following code<br>"iOS": for specific push configuration related to<br>iOS, please see the following code |

## Configuration Information

### Android push configuration information



```
"android": {
 "ring": 1, // Ring
 "vibrate": 1, // Vibrate
 "lights": 1, // LED indicator
 "clearable": 1, // Whether dismissible or not
 "action": {
 "action_type": 3, // Action type; 1. open activity or application; 2. op
 "intent": "" // The SDK version must be 1.0.9 or higher. Configure the
 },
 "custom_content": "{}"
}
```

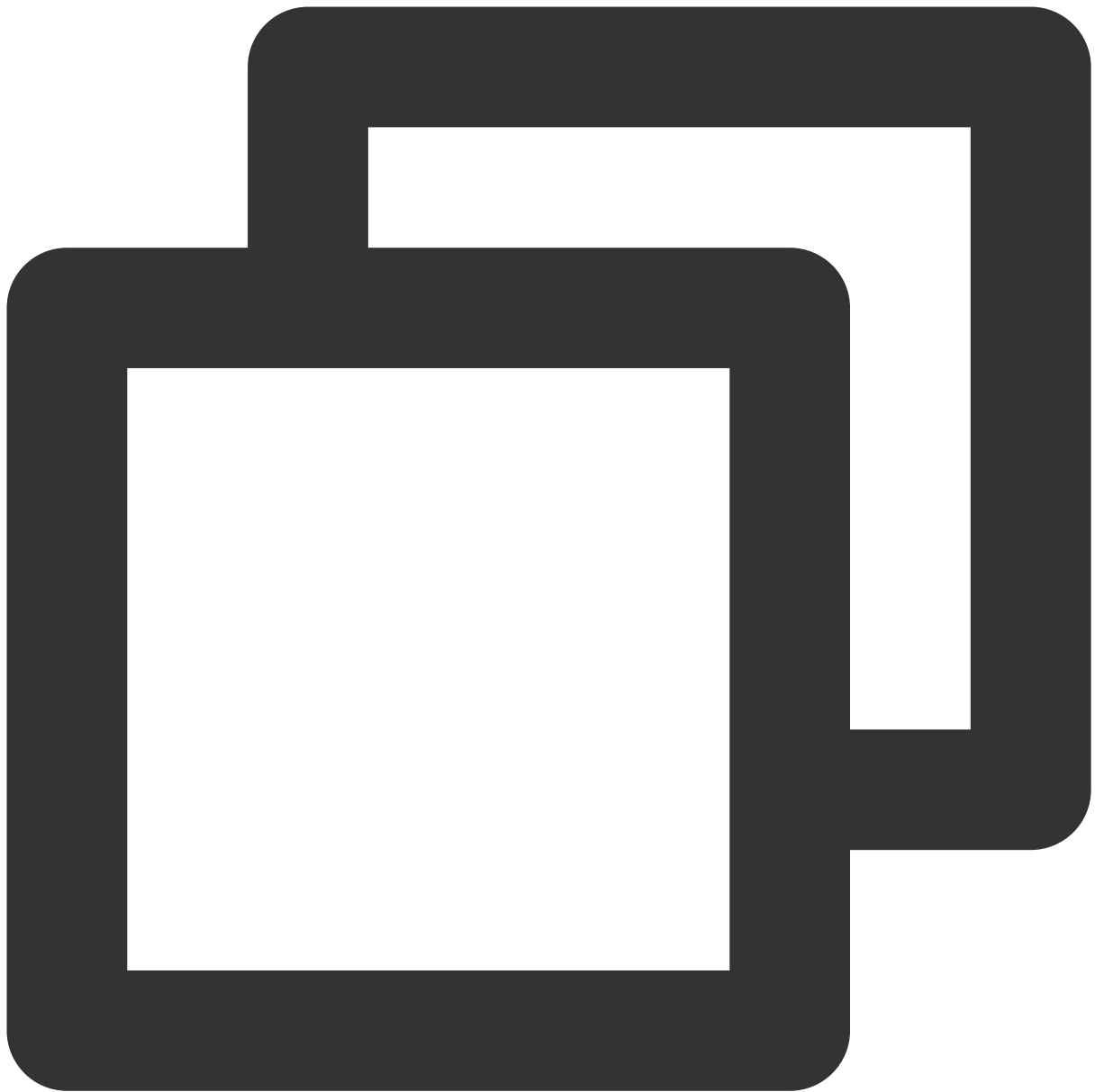
```
 \ \ \

iOS push configuration information

```json
"ios":{
    "aps": {
        "alert": {
            "subtitle": "my subtitle"
        },
        "badge_type": 5, // Badge number displayed by application (optional). -
        "category": "INVITE_CATEGORY",
        "sound":"default",// If this parameter is left empty, the default sound
        "mutable-content":1
    },
}
```

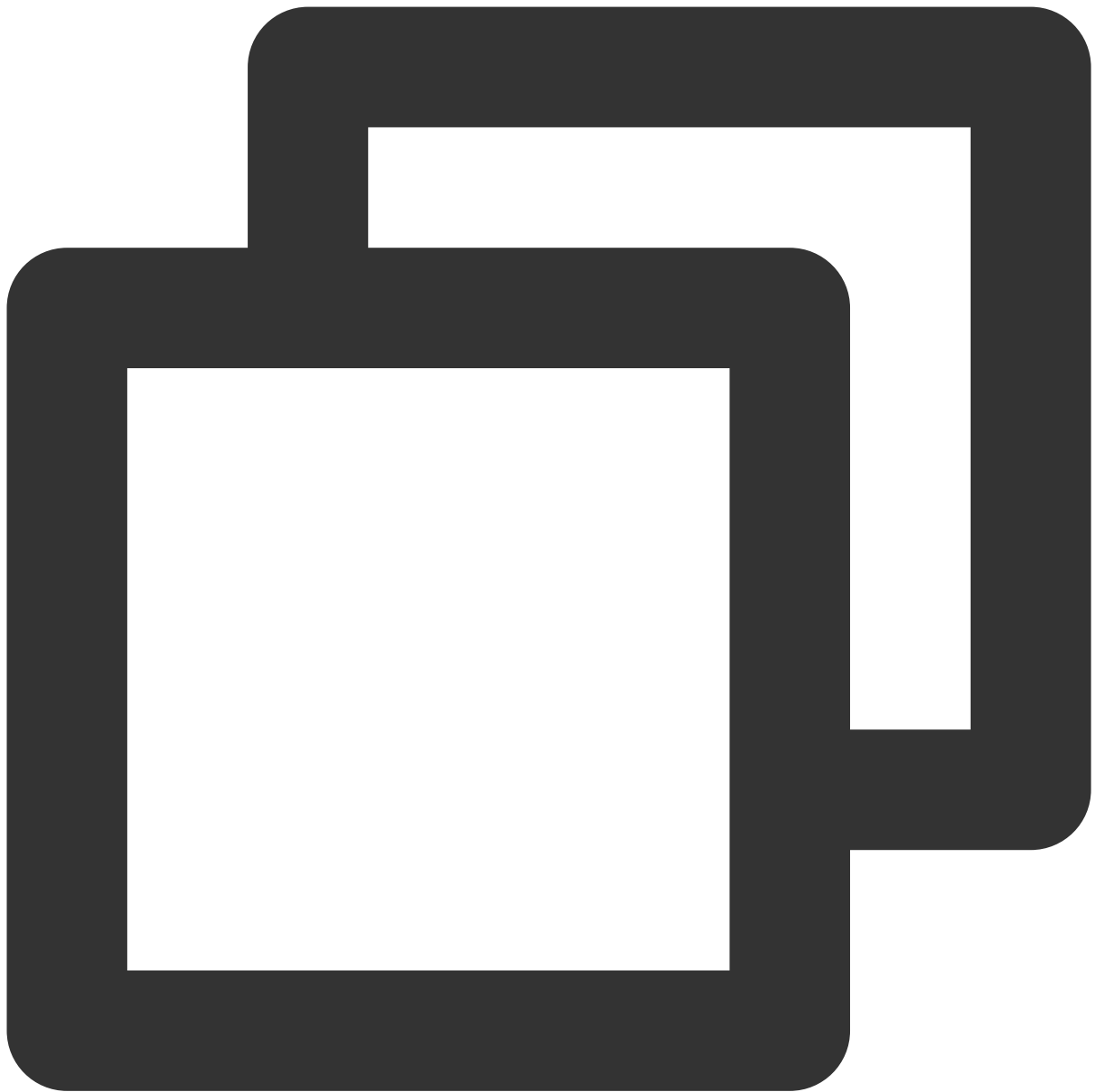
Samples

Sample request



```
{  
  "pushId": "133703"  
}
```

Sample response



```
{
  "retCode": 0,
  "errMsg": "NO_ERROR",
  "pushRecordData": [
    {
      "date": "2019-07-25 20:06:28",
      "pushId": 133703,
      "title": "1",
      "content": "2",
      "status": "PUSH_FINISHED",
      "pushType": "tag",
```

```
    "targetList": null,
    "tagSet": {
      "op": "OR",
      "tagWithType": [
        {
          "tagTypeName": "xg_user_define",
          "tagValue": "test68"
        }
      ]
    },
    "uploadId": 0,
    "expireTime": 86400,
    "messageType": "notify",
    "xgMediaResources": "",
    "environment": "product",
    "collapseID": 0,
    "pushConfig": {
      "android": {
        "ring": 1,
        "vibrate": 0,
        "lights": 1,
        "clearable": 1,
        "action": {
          "action_type": 1
        },
        "custom_content": "{}"
      },
      "ios": null
    },
    "multiPkg": false
  }
}
```

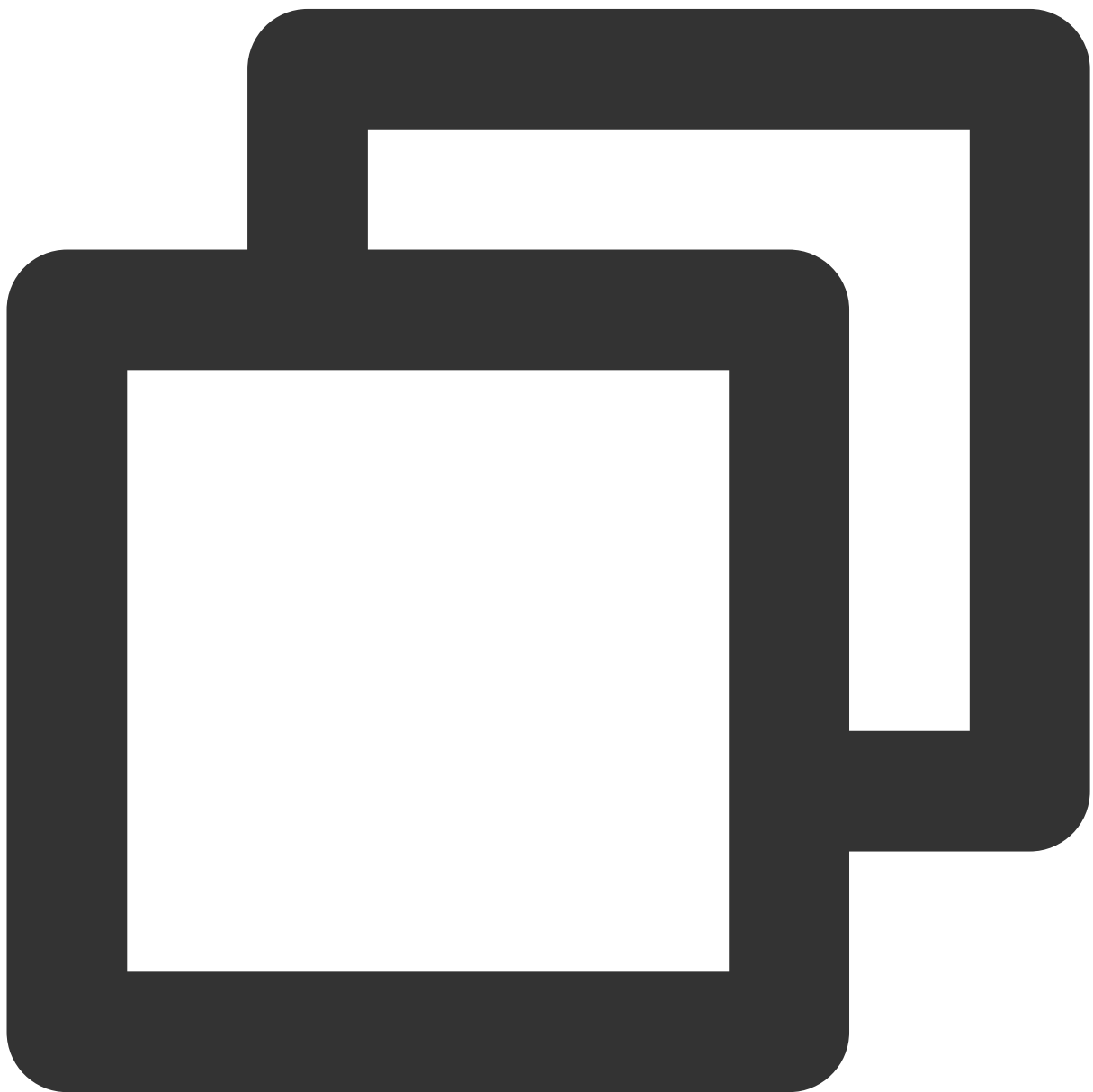
Querying Push Statistics for a Single Task

Last updated : 2024-01-17 14:26:44

API Description

Request method: POST

Calling frequency limit: 200 times/hour



```
Service URL/v3/statistics/get_push_task_stat_channel
```

API service URLs correspond to service access points one by one. Please select the [service URL](#) corresponding to the service access point of your application.

Feature: This API is used to query the detailed statistics for each push task, including all channel information and the summary. The channel types in `pushStatDataAll` vary depending on the OS (iOS/Android) and push channels.

Parameters

Request parameters

Parameter	Required	Type	Description
pushId	Yes	String	ID of a push task. You can only query push tasks within last 30 days.

Response parameters

Parameter	Type	Description
retCode	Integer	Returned status code
errMsg	String	Error message
pushStatDataAll	Array	Variables in the <code>pushStatDataAll</code> structure. See the table below for details.

pushStatDataAll

Parameter	Type	Description
channel	String	Name of a push channel xg: TPNS hw: Huawei xm: Mi mz: Meizu oppo: OPPO vivo: vivo apns: APNs fcm: FCM rog: ROG apns: Apple channel iospk: Apple PushKit channel (available only in International Site)

		honor: Honor channel all: all channels
pushState	Object	Variables in the pushState structure. See the table below for details.

pushState (Android)

Parameter	Type	Description
pushActiveUv	Integer	Scheduled delivery count Number of available devices online in last 90 days with the notification bar enabled in the push target devices
pushOnlineUv	Integer	Actual delivery count Number of available devices to which the message was successfully delivered through the vendor or TPNS channel out of the devices for scheduled delivery
arrivalUv	Integer	Number of reached devices (including arrival receipts for the TPNS and vendor channels. For Huawei and Meizu channels, you need to configure the arrival receipt manually. For more information, please see Acquisition of Vendor Channel Arrival Receipt).
verifySvcUv	Integer	Number of reached devices (only for TPNS, ROG, and FCM channels. The arrival data of other vendor channels is displayed using the <code>pushOnlineUv</code> parameter of TPNS). Note: This parameter will be discontinued later. Therefore, you are advised to use <code>arrivalUv</code> for the arrival data.
callbackVerifySvcUv	Integer	Arrival receipt for vendor channels (for Huawei and Meizu channels, you need to configure the arrival receipt manually. For more information, please see Acquisition of Vendor Channel Arrival Receipt). Note: This parameter will be discontinued later. Therefore, you are advised to use <code>arrivalUv</code> for the arrival data.
verifyUv	Integer	Displayed (this parameter has been discarded and will be discontinued later)
clickUv	Integer	Clicked
cleanupUv	Integer	Cleared

Note:

The `all` channel in the array corresponds to the aggregated statistics.

In the aggregated statistics, the `verifySvcUv` (reached devices), `verifyUv` (displayed), `clickUv` (clicked), and `cleanupUv` (cleared) metrics only aggregate the data of the TPNS, ROG, and FCM channels.

In the aggregated statistics, `pushActiveUv` (scheduled delivery) and `pushOnlineUv` (actual delivery) aggregate the data of the TPNS channel and vendor channels.

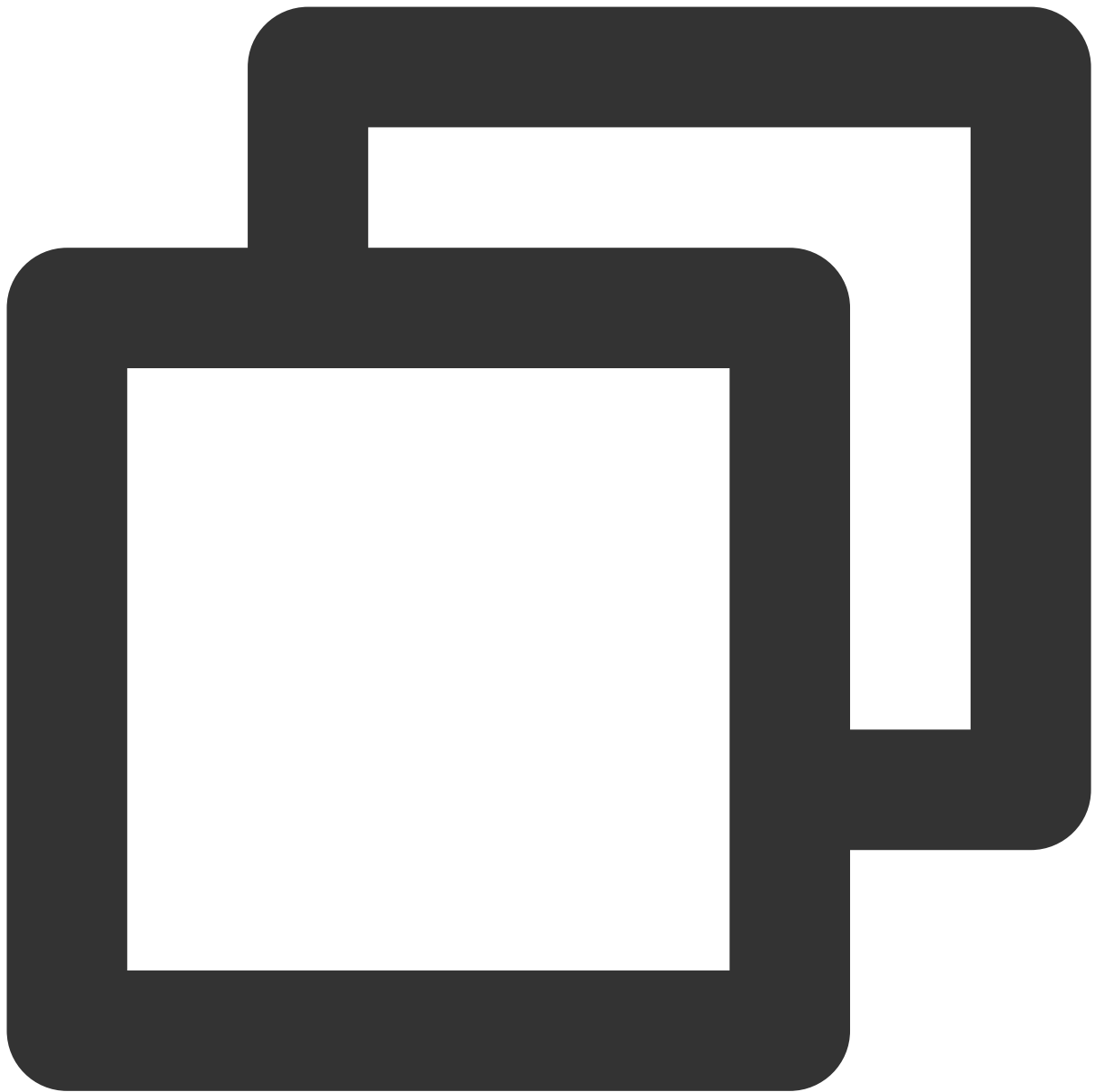
In the aggregated statistics, `callbackVerifySvcUv` (arrival receipt of vendor channel) aggregates the data of vendor channel's `callbackVerifySvcUv` (arrival receipt of vendor channel) + TPNS channel's `verifySvcUv` (reached devices) + ROG channel's `verifySvcUv` (reached devices) + FCM channel's `verifySvcUv` (reached devices).

pushState (iOS and macOS)

Parameter	Type	Description
<code>pushActiveUv</code>	Integer	Scheduled delivery
<code>pushOnlineUv</code>	Integer	Successfully received by APNs
<code>verifySvcUv</code>	Integer	Reached
<code>clickUv</code>	Integer	Clicked

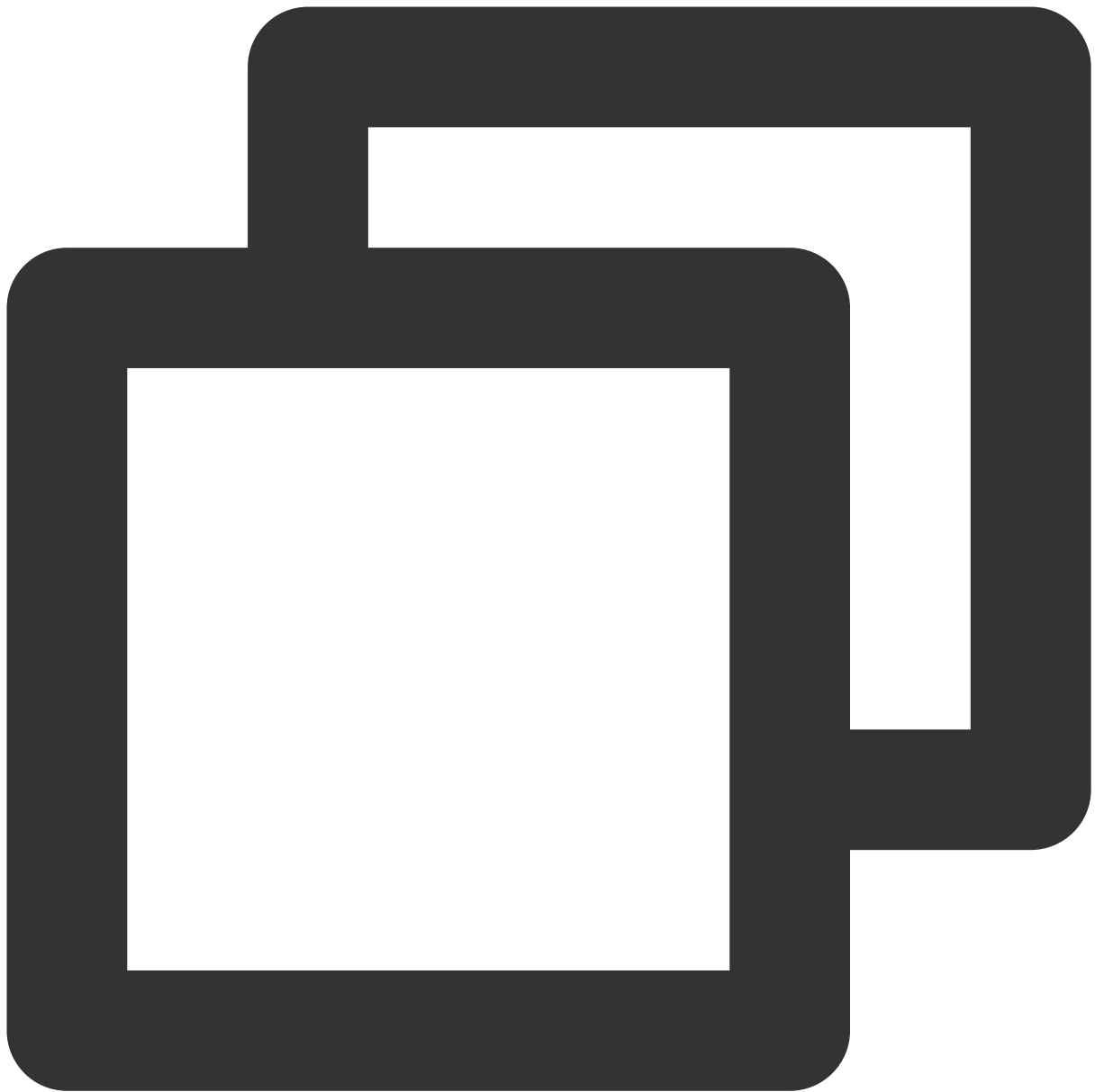
Samples

Sample request



```
{  
  "pushId": "130248"  
}
```

Sample response



```
{
  "retCode": 0,
  "errMsg": "NO_ERROR",
  "pushStatDataAll": [
    {
      "channel": "xm",
      "pushState": {
        "pushActiveUv": 1000,
        "pushOnlineUv": 1000,
        "verifySvcUv": 1000,
        "callbackVerifySvcUv": 800,

```



```
        "arrivalUv": 1000,
        "verifyUv": 1000,
        "clickUv": 0,
        "cleanupUv": 0
    }
},
{
    "channel": "mz",
    "pushState": {
        "pushActiveUv": 1000,
        "pushOnlineUv": 1000,
        "verifySvcUv": 1000,
        "callbackVerifySvcUv": 800,
        "arrivalUv": 1000,
        "verifyUv": 1000,
        "clickUv": 0,
        "cleanupUv": 0
    }
},
{
    "channel": "vivo",
    "pushState": {
        "pushActiveUv": 1000,
        "pushOnlineUv": 1000,
        "verifySvcUv": 1000,
        "callbackVerifySvcUv": 800,
        "arrivalUv": 1000,
        "verifyUv": 1000,
        "clickUv": 0,
        "cleanupUv": 0
    }
},
{
    "channel": "hw",
    "pushState": {
        "pushActiveUv": 1000,
        "pushOnlineUv": 1000,
        "verifySvcUv": 1000,
        "callbackVerifySvcUv": 800,
        "arrivalUv": 1000,
        "verifyUv": 1000,
        "clickUv": 0,
        "cleanupUv": 0
    }
},
{
    "channel": "xg",
```

```
    "pushState": {
      "pushActiveUv": 1000,
      "pushOnlineUv": 800,
      "verifySvcUv": 800,
      "callbackVerifySvcUv": 0,
      "arrivalUv": 1000,
      "verifyUv": 800,
      "clickUv": 300,
      "cleanupUv": 500
    }
  },
  {
    "channel": "oppo",
    "pushState": {
      "pushActiveUv": 1000,
      "pushOnlineUv": 1000,
      "verifySvcUv": 1000,
      "callbackVerifySvcUv": 800,
      "arrivalUv": 1000,
      "verifyUv": 1000,
      "clickUv": 0,
      "cleanupUv": 0
    }
  },
  {
    "channel": "fcm",
    "pushState": {
      "pushActiveUv": 0,
      "pushOnlineUv": 0,
      "verifySvcUv": 0,
      "callbackVerifySvcUv": 0,
      "arrivalUv": 0,
      "verifyUv": 0,
      "clickUv": 0,
      "cleanupUv": 0
    }
  },
  {
    "channel": "rog",
    "pushState": {
      "pushActiveUv": 0,
      "pushOnlineUv": 0,
      "verifySvcUv": 0,
      "callbackVerifySvcUv": 0,
      "arrivalUv": 0,
      "verifyUv": 0,
      "clickUv": 0,
```

```
        "cleanupUv": 0
      },
    },
    {
      "channel": "all",
      "pushState": {
        "pushActiveUv": 6000,
        "pushOnlineUv": 5800,
        "verifySvcUv": 5800,
        "callbackVerifySvcUv": 4000,
        "arrivalUv": 5800,
        "verifyUv": 5800,
        "clickUv": 300,
        "cleanupUv": 500
      }
    }
  ]
}
```

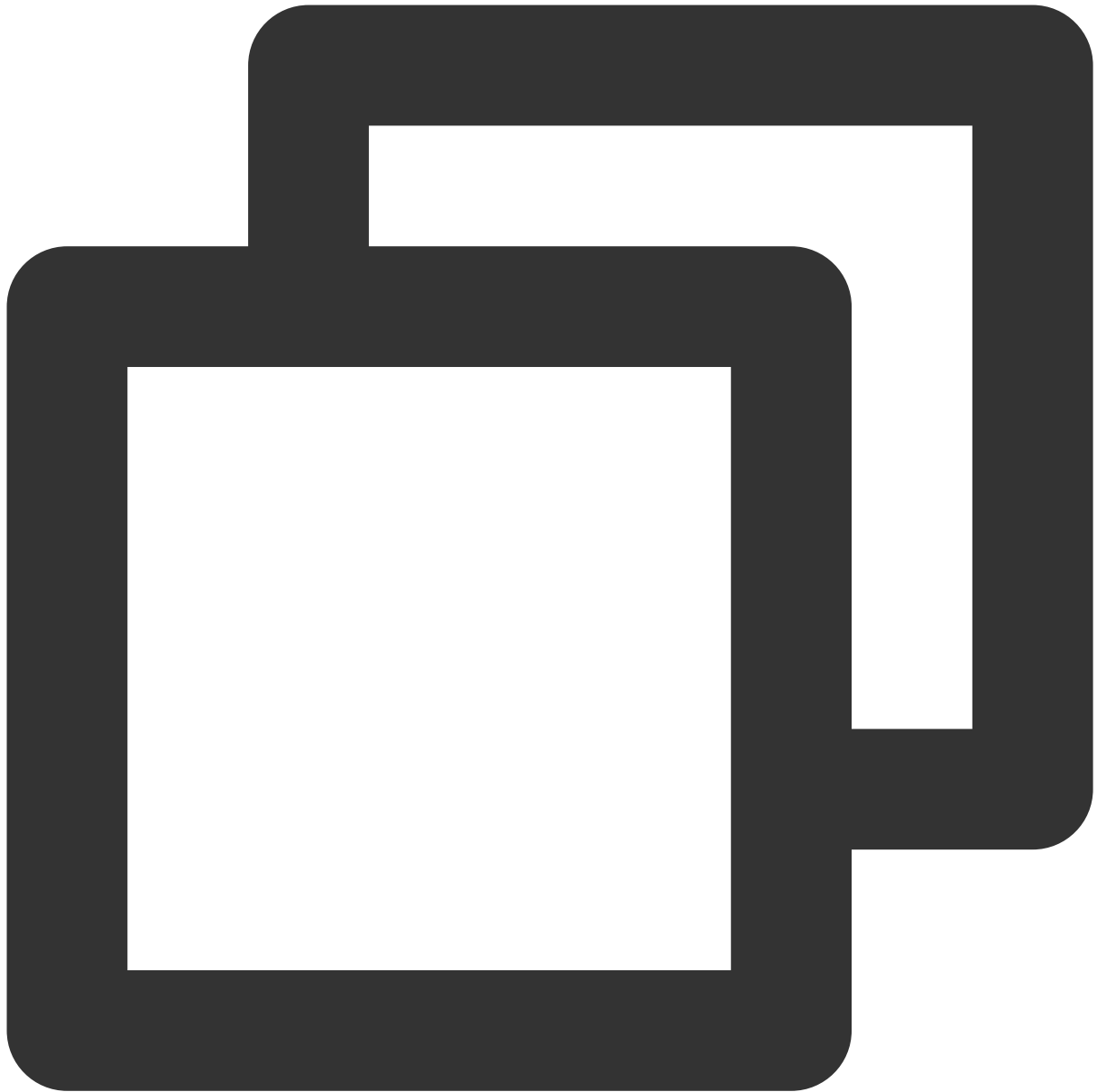
Querying Aggregated Statistics for Multiple Tasks

Last updated : 2024-01-17 14:26:44

API Description

Request method: POST

Calling frequency limit: 200 times/hour



```
Service URL/v3/statistics/get_push_group_stat_channel
```

API service URLs correspond to service access points one by one. Please select the [service URL](#) corresponding to the service access point of your application.

Feature: This API is used to query the aggregated statistics (by channel) of all push tasks that have the same `GroupID` or `planId` in last 7 days.

Note:

`GroupID` will be discarded gradually. Therefore, you are advised to use `planId` to query the aggregated statistics.

Parameters

Request parameters

Parameter	Required	Type	Description
planId	Yes	String	Parameter for aggregated statistics of multiple tasks, corresponding to <code>planId</code> in the push parameters
groupId	Yes	String	Parameter for aggregated statistics of multiple tasks, corresponding to <code>group_Id</code> in the push parameters Note: This parameter will be discarded gradually. Therefore, you are advised to use <code>planId</code> to query the aggregated statistics.
startDate	Yes	String	Query start date Format: YYYYMMDD Limit: only data of push tasks in last 7 days can be aggregated.
endDate	Yes	String	Query end date. Format: YYYYMMDD

Note:

If both `planId` and `groupId` are specified, the query will be based on `planId` by default.

Response parameters

Parameter	Type	Description
retCode	Integer	Returned status code
errMsg	String	Error message
pushStatDataAll	Array	Variables in the <code>pushStatDataAll</code> structure. See the table below for details.

pushStatDataAll

Parameter	Type	Description
channel	String	Name of a push channel xg: TPNS hw: Huawei xm: Mi mz: Meizu oppo: OPPO vivo: vivo

		apns: APNs fcm: FCM rog: ROG iospk: Apple PushKit channel (available only in International Site) apns: Apple channel honor: Honor channel all: all channels
pushState	Object	Variables in the pushState structure. See the table below for details.

pushState (Android)

Parameter	Type	Description
pushActiveUv	Integer	Scheduled delivery count Number of available devices online in last 90 days with the notification bar enabled in the push target devices
pushOnlineUv	Integer	Actual delivery count Number of available devices to which the message was successfully delivered through the vendor or TPNS channel out of the devices for scheduled delivery
arrivalUv	Integer	Number of reached devices (including arrival receipts for the TPNS and vendor channels. For Huawei and Meizu channels, you need to configure the arrival receipt manually. For more information, please see Acquisition of Vendor Channel Arrival Receipt)
verifySvcUv	Integer	Number of reached devices (only for TPNS, ROG, and FCM channels. The arrival data of other vendor channels is displayed using the <code>pushOnlineUv</code> parameter of TPNS). Note: This parameter will be discontinued later. Therefore, you are advised to use <code>arrivalUv</code> for the arrival data.
callbackVerifySvcUv	Integer	Arrival receipt for vendor channels (for the Huawei and Meizu channels, you need to configure the arrival receipt manually. For more information, please see Acquisition of Vendor Channel Arrival Receipt). Note: This parameter will be discontinued later. Therefore, you are advised to use <code>arrivalUv</code> for the arrival data.
verifyUv	Integer	Displayed (this parameter has been discarded and will be discontinued later)
clickUv	Integer	Clicked
cleanupUv	Integer	Cleared

Note:

The "all" channel in the array corresponds to the aggregated statistics.

In the aggregated statistics, the `verifySvcUv` (reached devices), `verifyUv` (displayed), `clickUv` (clicked), and `cleanupUv` (cleared) metrics only aggregate the data of the TPNS, ROG, and FCM channels.

In the aggregated statistics, `pushActiveUv` (scheduled delivery) and `pushOnlineUv` (actual delivery) aggregate the data of the TPNS channel and vendor channels.

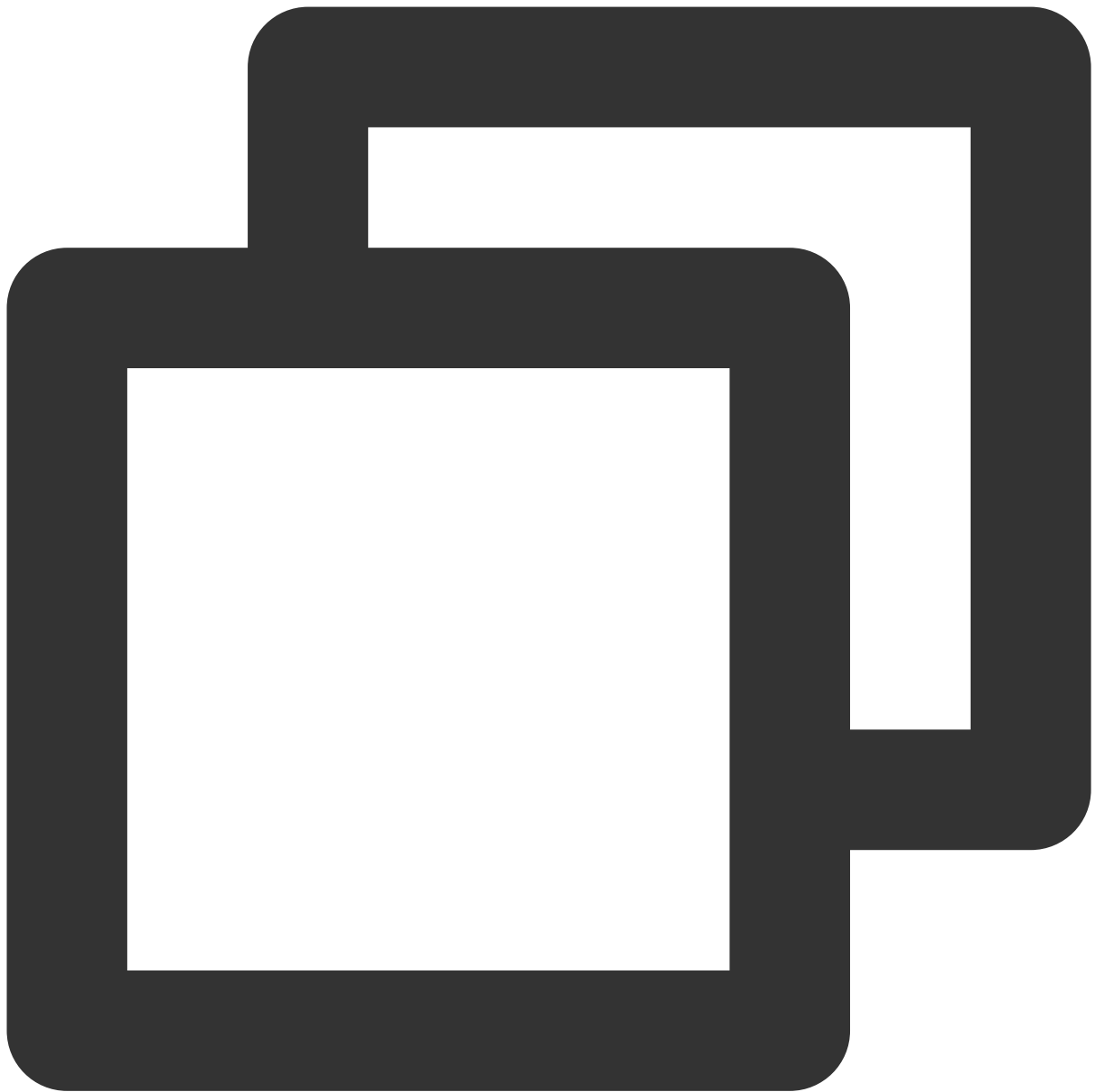
In the aggregated statistics, `callbackVerifySvcUv` (arrival receipt of vendor channel) aggregates the data of vendor channel's `callbackVerifySvcUv` (arrival receipt of vendor channel) + TPNS channel's `verifySvcUv` (reached devices) + ROG channel's `verifySvcUv` (reached devices) + FCM channel's `verifySvcUv` (reached devices).

pushState (iOS)

Parameter	Type	Description
<code>pushActiveUv</code>	Integer	Scheduled delivery
<code>pushOnlineUv</code>	Integer	Successfully received by APNs
<code>verifySvcUv</code>	Integer	Reached
<code>clickUv</code>	Integer	Clicked

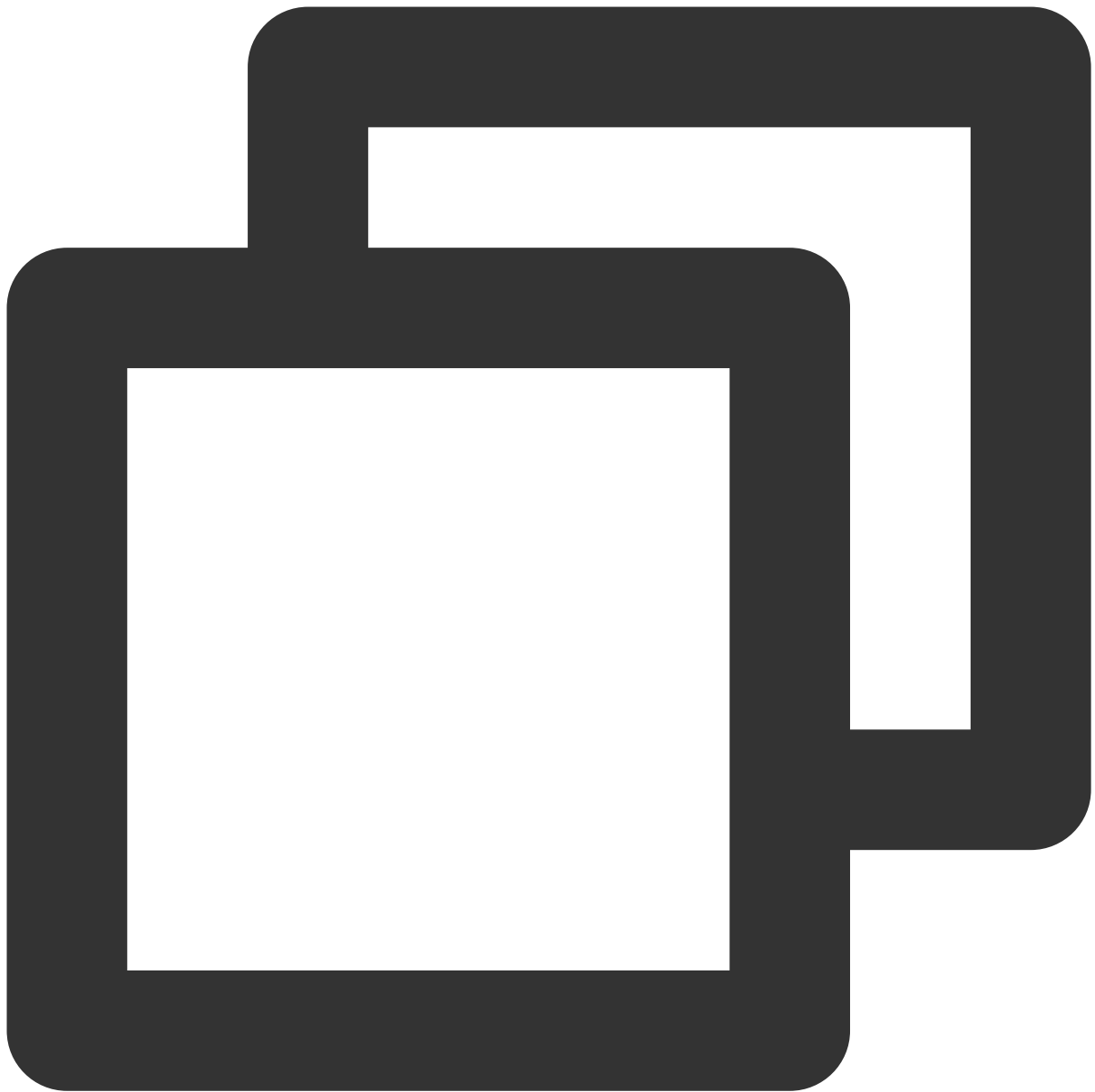
Samples

Sample request



```
{  
  "groupid": "pt:testGroup",  
  "startDate": "20190912",  
  "endDate": "20190912"  
}
```

Sample response



```
{
  "retCode": 0,
  "errMsg": "NO_ERROR",
  "pushStatDataAll": [
    {
      "channel": "fcm",
      "pushState": {
        "pushActiveUv": 0,
        "pushOnlineUv": 0,
        "verifySvcUv": 0,
        "callbackVerifySvcUv": 0,

```

```
        "arrivalUv": 0,
        "verifyUv": 0,
        "clickUv": 0,
        "cleanupUv": 0
    }
},
{
    "channel": "rog",
    "pushState": {
        "pushActiveUv": 0,
        "pushOnlineUv": 0,
        "verifySvcUv": 0,
        "callbackVerifySvcUv": 0,
        "arrivalUv": 0,
        "verifyUv": 0,
        "clickUv": 0,
        "cleanupUv": 0
    }
},
{
    "channel": "hw",
    "pushState": {
        "pushActiveUv": 0,
        "pushOnlineUv": 0,
        "verifySvcUv": 0,
        "callbackVerifySvcUv": 0,
        "arrivalUv": 0,
        "verifyUv": 0,
        "clickUv": 0,
        "cleanupUv": 0
    }
},
{
    "channel": "xm",
    "pushState": {
        "pushActiveUv": 0,
        "pushOnlineUv": 0,
        "verifySvcUv": 0,
        "callbackVerifySvcUv": 0,
        "arrivalUv": 0,
        "verifyUv": 0,
        "clickUv": 0,
        "cleanupUv": 0
    }
},
{
    "channel": "oppo",
```

```
    "pushState": {
      "pushActiveUv": 0,
      "pushOnlineUv": 0,
      "verifySvcUv": 0,
      "callbackVerifySvcUv": 0,
      "arrivalUv": 0,
      "verifyUv": 0,
      "clickUv": 0,
      "cleanupUv": 0
    }
  },
  {
    "channel": "vivo",
    "pushState": {
      "pushActiveUv": 0,
      "pushOnlineUv": 0,
      "verifySvcUv": 0,
      "callbackVerifySvcUv": 0,
      "arrivalUv": 0,
      "verifyUv": 0,
      "clickUv": 0,
      "cleanupUv": 0
    }
  },
  {
    "channel": "mz",
    "pushState": {
      "pushActiveUv": 0,
      "pushOnlineUv": 0,
      "verifySvcUv": 0,
      "callbackVerifySvcUv": 0,
      "arrivalUv": 0,
      "verifyUv": 0,
      "clickUv": 0,
      "cleanupUv": 0
    }
  },
  {
    "channel": "xg",
    "pushState": {
      "pushActiveUv": 4641,
      "pushOnlineUv": 4641,
      "verifySvcUv": 4641,
      "callbackVerifySvcUv": 0,
      "arrivalUv": 0,
      "verifyUv": 4639,
      "clickUv": 3818,
```

```
        "cleanupUv": 4200
      },
    },
    {
      "channel": "all",
      "pushState": {
        "pushActiveUv": 4641,
        "pushOnlineUv": 4641,
        "verifySvcUv": 4641,
        "callbackVerifySvcUv": 4641,
        "arrivalUv": 4641,
        "verifyUv": 4639,
        "clickUv": 3818,
        "cleanupUv": 4200
      }
    }
  ]
}
```

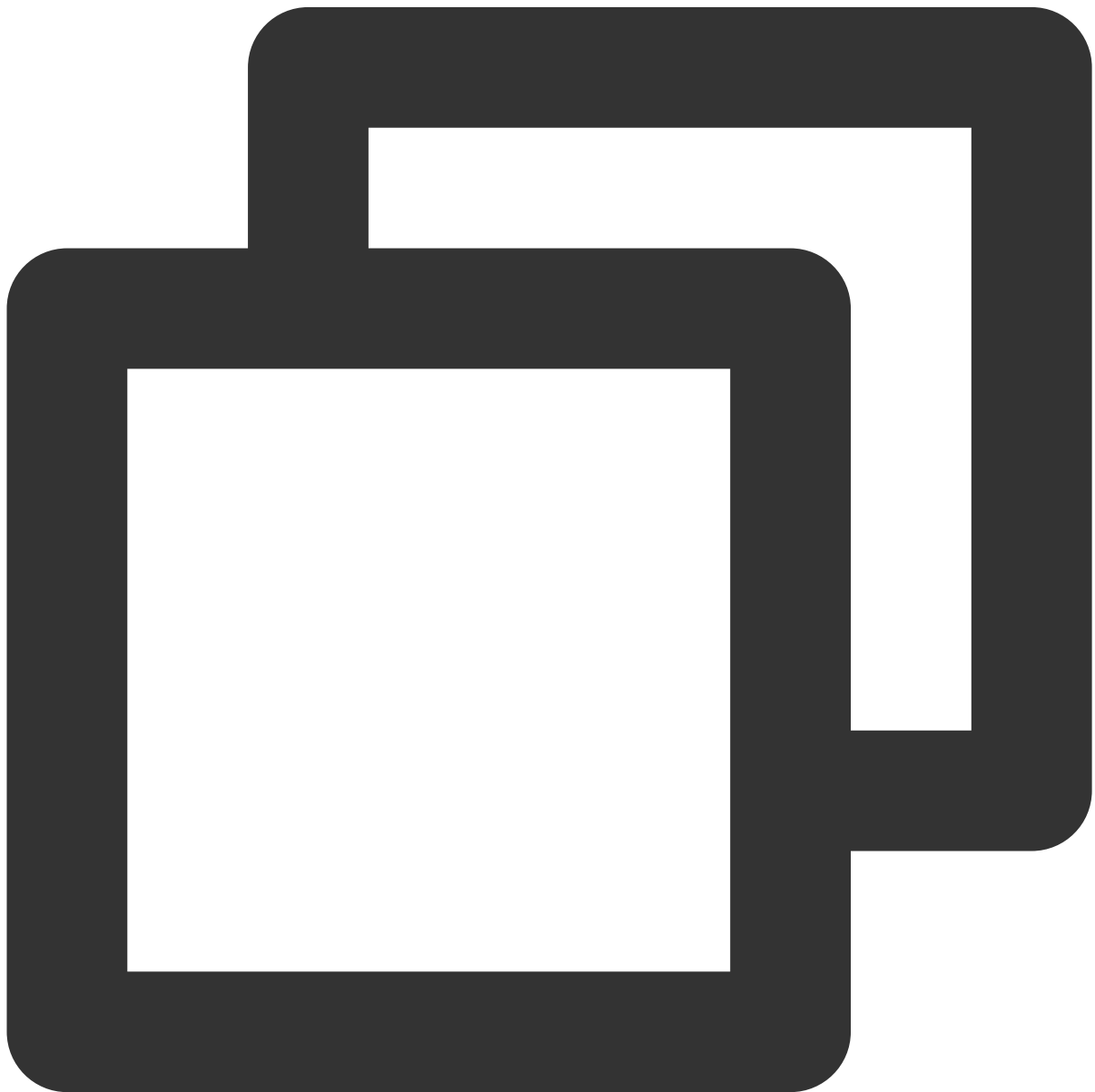
Querying All Push Tasks on the Day by Token

Last updated : 2024-01-17 14:26:44

API Calling Description

Request method: POST.

Calling frequency limit: 200 times/hour



```
Service URL: v3/toolbox/getPushListByToken
```

API service URLs correspond to service access points one to one. Select the [service URL](#) corresponding to the service access point of your application.

Feature: Query the token-specific push data of the application on a day.

Parameters

Request parameters

Parameter	Required	Type	Description
token	Yes	String	Device token

Response parameters

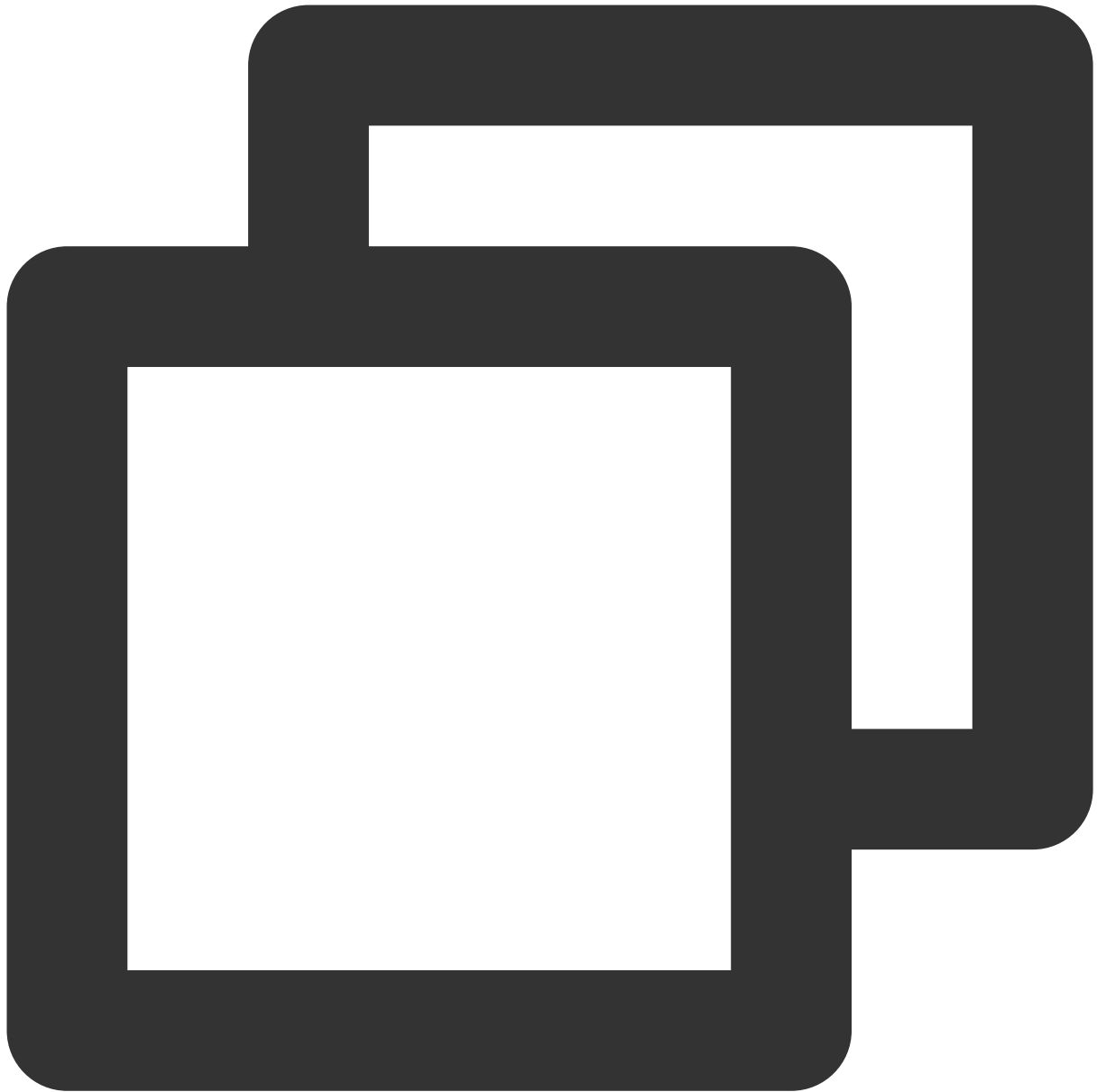
Parameter	Type	Description
retCode	Integer	Returned status code
errMsg	string	Error message
pushTaskList	pushTask	Push parameter

pushTask

Parameter	Type	Description
pushId	Integer	Push task ID
pushTime	Integer	Push timestamp
pushTargetType	Array	Push type

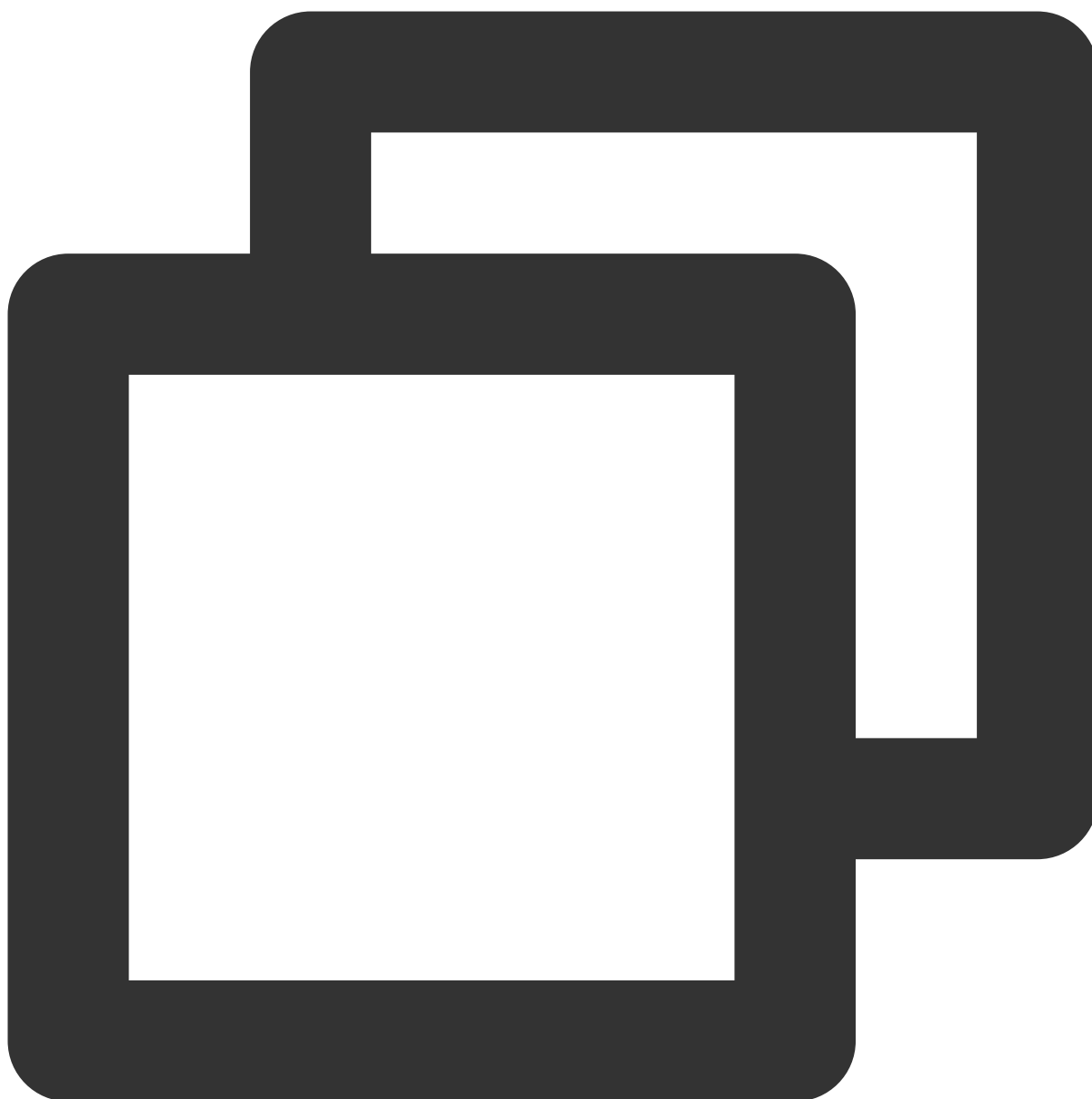
Samples

Sample request



```
{  
  "token": "05a305f6b71abb3a6b8c759fd1bc56b4bb44"  
}
```

Sample response



```
{
  "retCode": 0,
  "errMsg": "NO_ERROR",
  "pushTaskList": [
    {
      "pushId": 589840563,
      "pushTime": 1651662600,
      "pushTargetType": "TAG_PUSH"
    },
    {
      "pushId": 590166744,
```

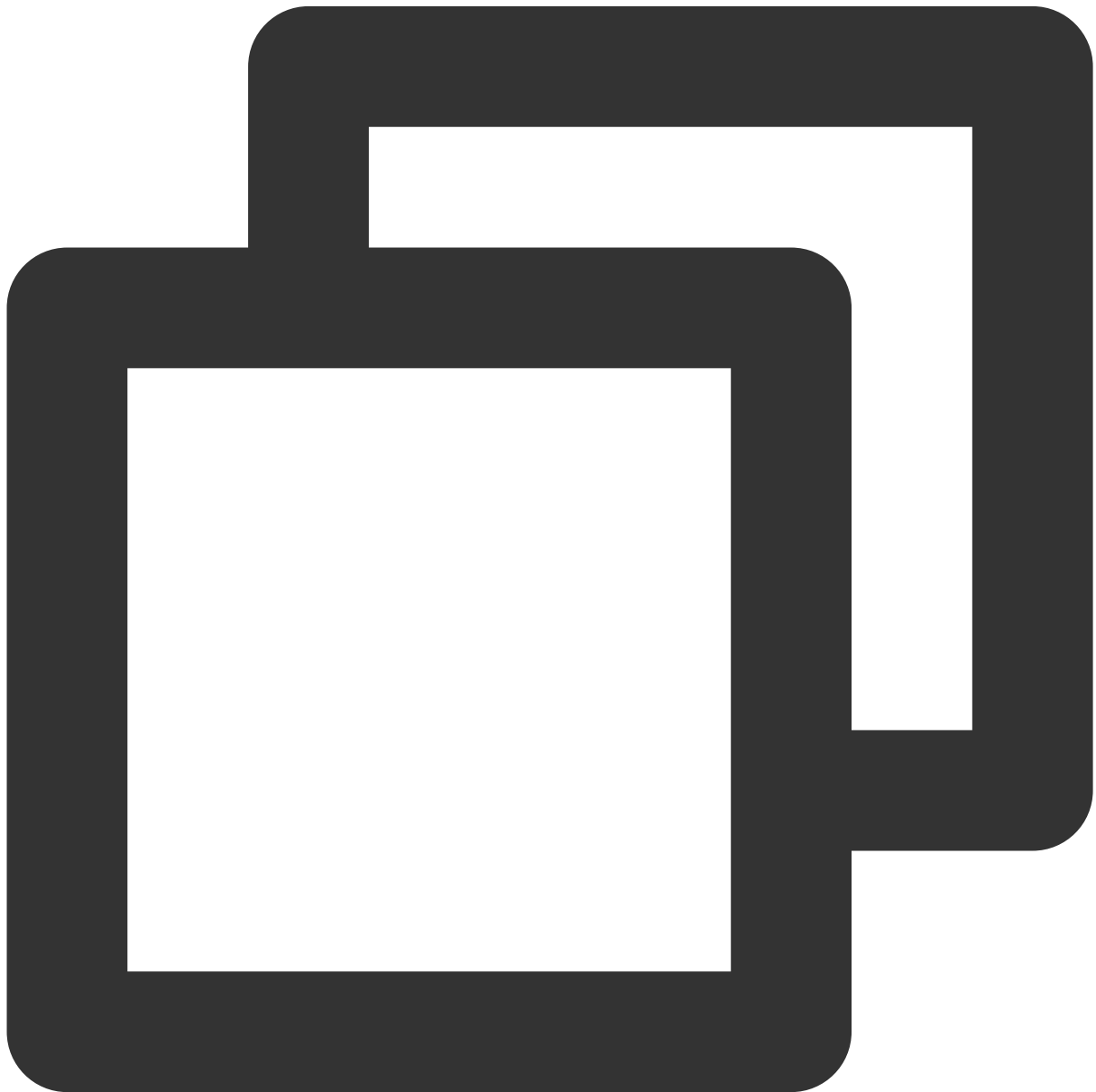
```
        "pushTime": 1651741604,  
        "pushTargetType": "TAG_PUSH"  
    },  
    {  
        "pushId": 590178525,  
        "pushTime": 1651742807,  
        "pushTargetType": "TAG_PUSH"  
    },  
    {  
        "pushId": 590179538,  
        "pushTime": 1651742914,  
        "pushTargetType": "TAG_PUSH"  
    },  
    {  
        "pushId": 590179672,  
        "pushTime": 1651742928,  
        "pushTargetType": "TAG_PUSH"  
    },  
    {  
        "pushId": 590235722,  
        "pushTime": 1651750200,  
        "pushTargetType": "TAG_PUSH"  
    }  
]  
}
```

User Attribute APIs

Last updated : 2024-01-17 14:26:44

API Description

Request method: POST.



Service URL/v3/device/set_custom_attribute

API service URLs correspond to service access points one by one. Please select the [service URL](#) corresponding to the service access point of your application.

Feature: this API is used to manage personalized attributes at the token level, including creation, deletion, update, and query operations.

Parameter Description

Request parameters

Parameter	Required	Type	Description
cmd	Yes	Integer	Operation type: 1: adding an attribute. 2: updating an attribute. 3: deleting an attribute. 4: deleting all attributes. 5: querying attributes.
token	Yes	String	Unique ID assigned to each device by TPNS. Suggestions on getting TPNS token (Android) Suggestions on getting TPNS token (iOS)
attributeInfo	Yes (when cmd is 1, 2, or 3)	Map	Attribute details. See the description of the attributeMap parameter below.
attributeMap	Yes (when cmd is 1, 2, or 3)	Map	Attribute details: key indicates the attribute name and can contain up to 50 bytes. Note: you should have created an attribute in the TPNS console > Toolbox > User Attribute Management ; otherwise, this parameter will be filtered out, and invalidAttribute will be returned. value indicates the attribute value and can contain up to 50 bytes.

Response parameters

Parameter	Returned	Type	Description
retCode	Yes	Integer	Error code. For more information, please see Server-Side Error Codes .
errMsg	Yes	String	Error message when an error occurs in the request.
attributeInfo	Yes (when <code>cmd</code> is	Map	Attribute details.

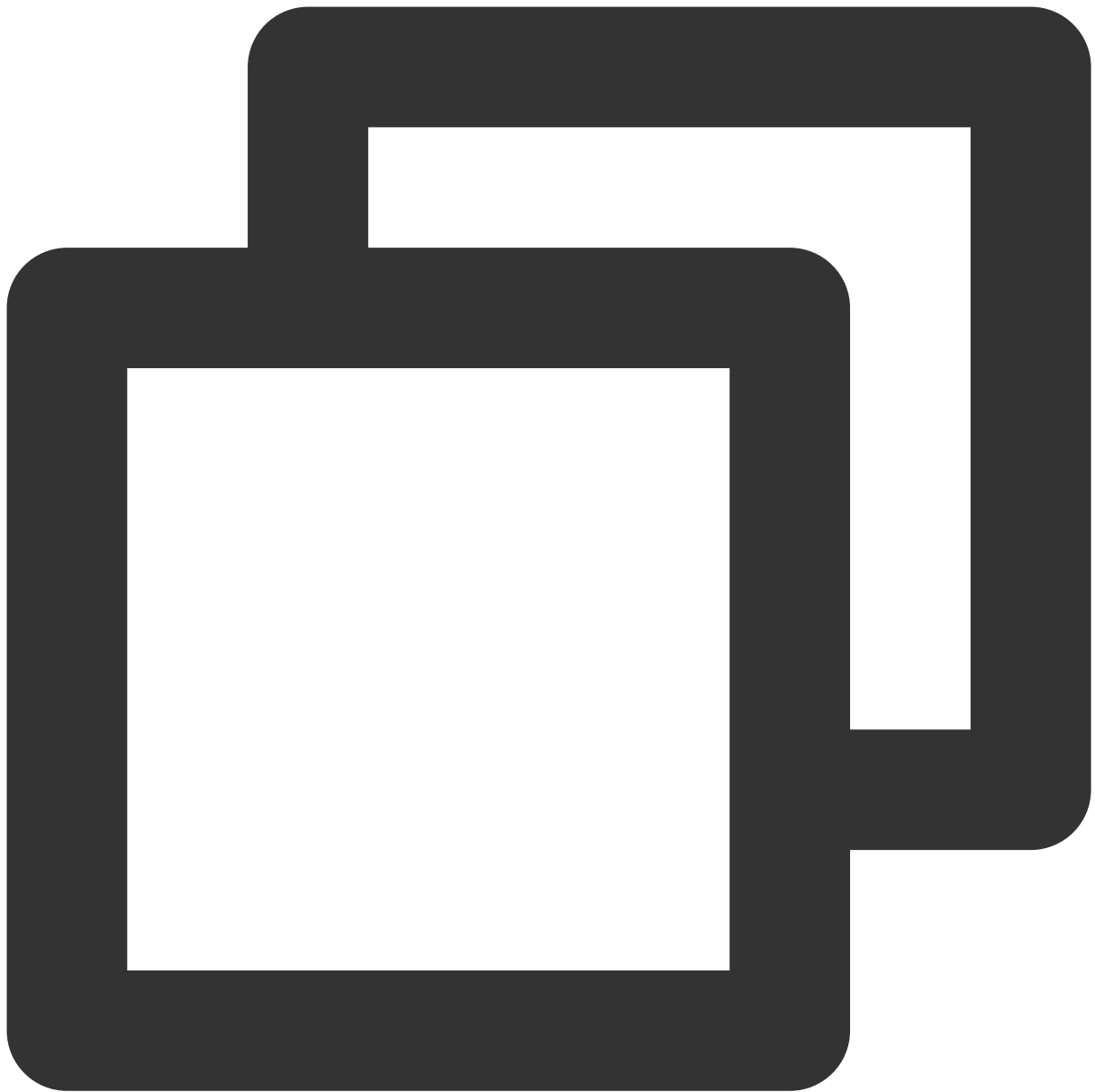
	5)		
invalidAttribute	Yes (when the attribute is invalid)	Array	Details of the invalid attribute.

Samples

Adding an attribute

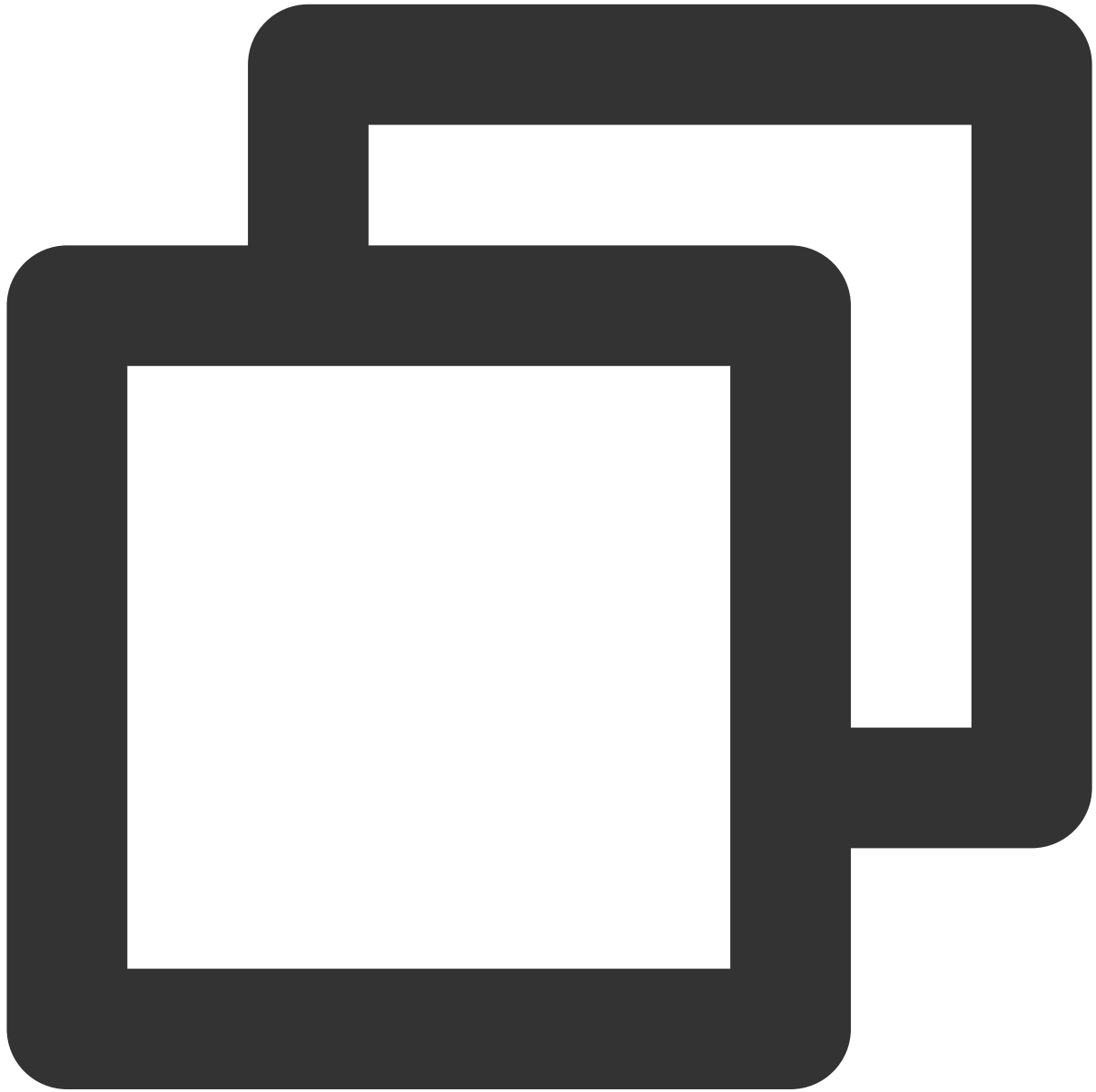
Sample request

Add three attributes to a token.



```
{
  "cmd": 1,
  "token": "04cac74a714f61bf089987a986363d88****",
  "attributeInfo": {
    "attributeMap": {
      "age": "100",
      "name": "Ming",
      "high": "2.66"
    }
  }
}
```

Sample response



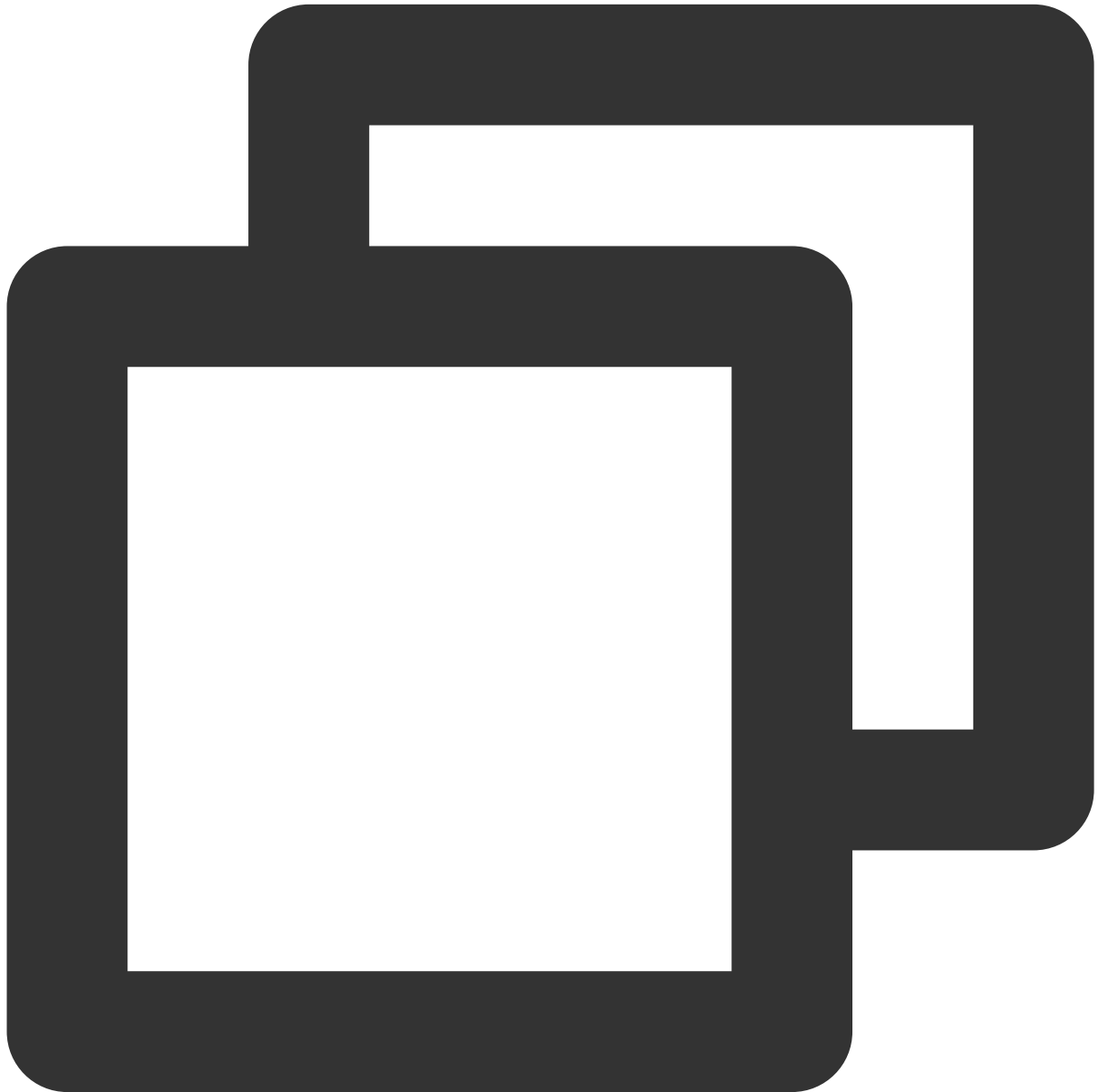
```
{
  "retCode": 0,
  "errMsg": "success",
  "invalidAttribute": [
    "high"    // The corresponding key value does not exist in the console
  ]
}
```

```
}
```

Updating an attribute

Sample request

Update the value of the `name` attribute to `workman` .

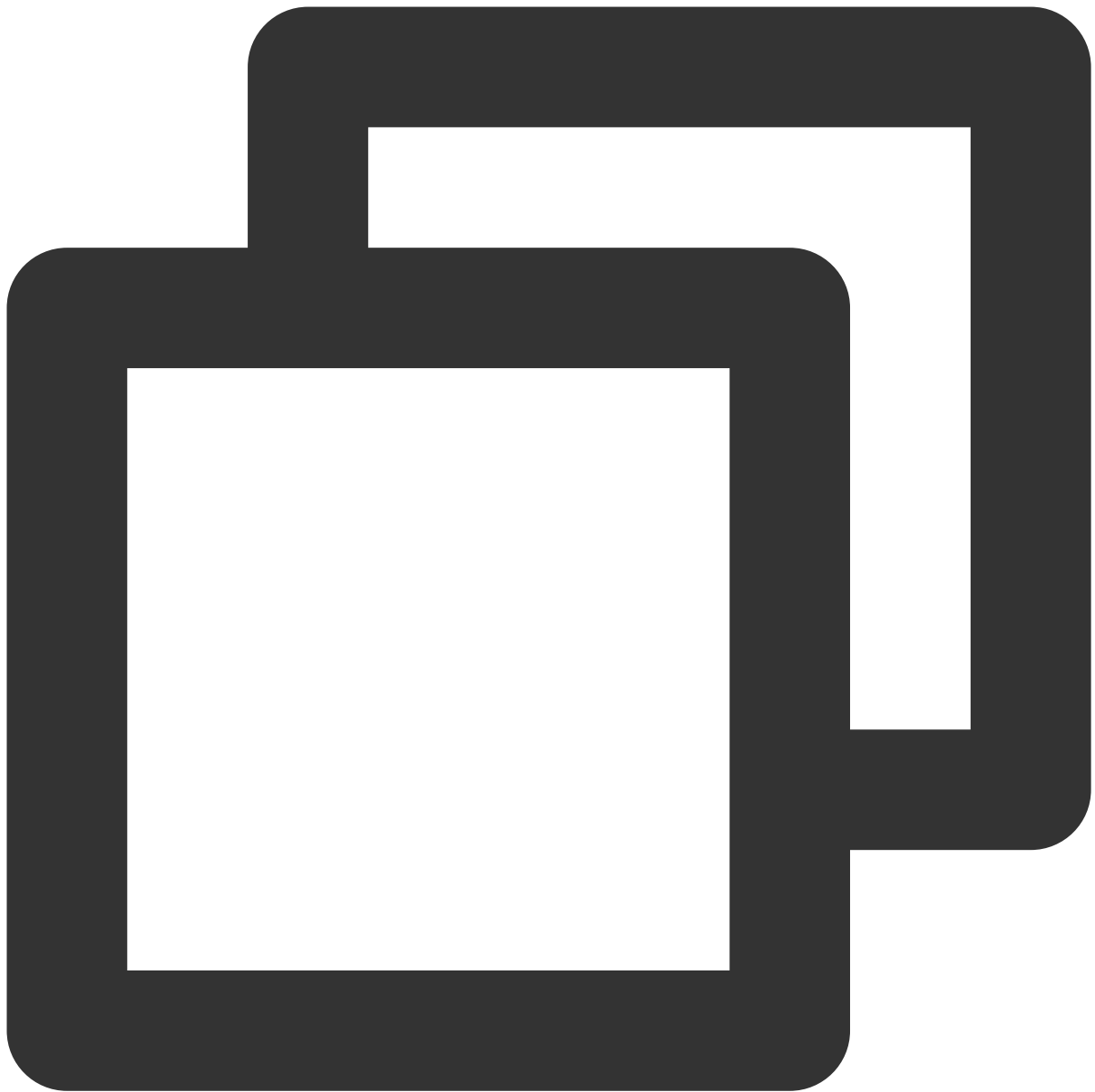


```
{  
  "cmd": 2,  
  "token": "04cac74a714f61bf089987a986363d88****",
```



```
"attributeInfo": {  
  "attributeMap": {  
    "name": "workman"  
  }  
}
```

Sample response

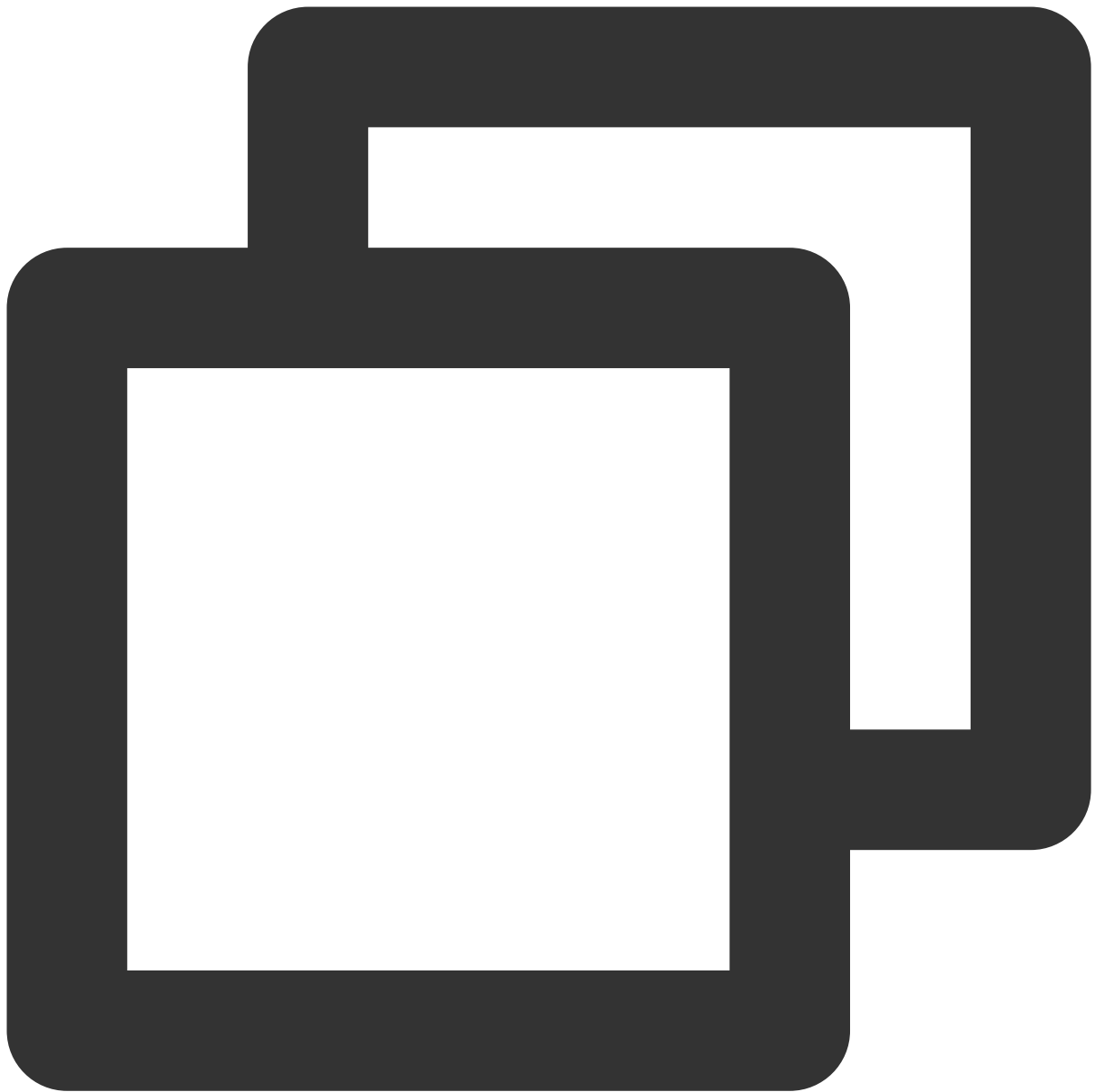


```
{  
  "retCode": 0,  
  "errMsg": "success"  
}
```

Deleting an attribute

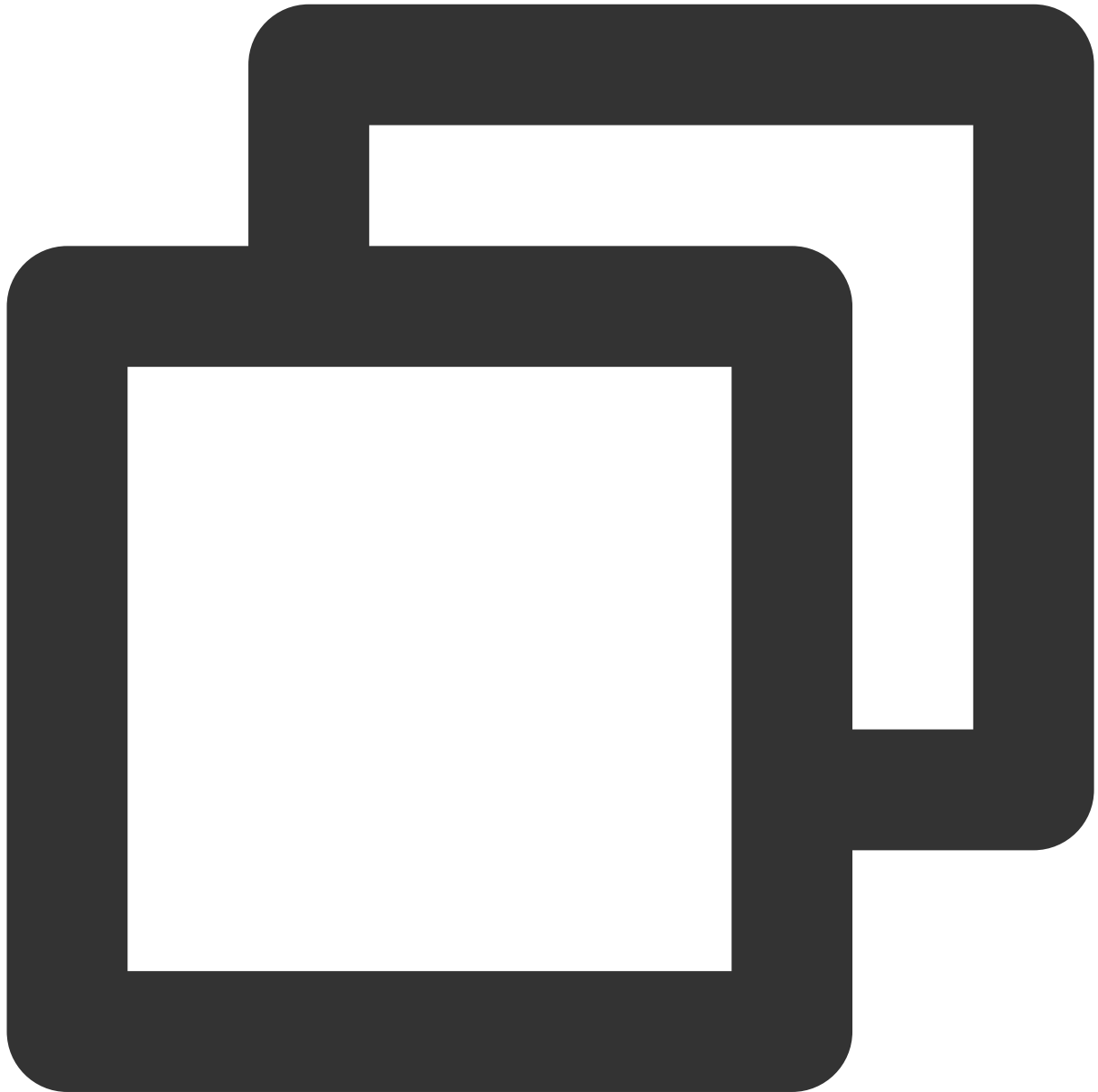
Sample request

Delete the `workman` value of the `name` attribute.



```
{
  "cmd": 3,
  "token": "04cac74a714f61bf089987a986363d88****",
  "attributeInfo": {
    "attributeMap": {
      "name": "workman"
    }
  }
}
```

Sample response

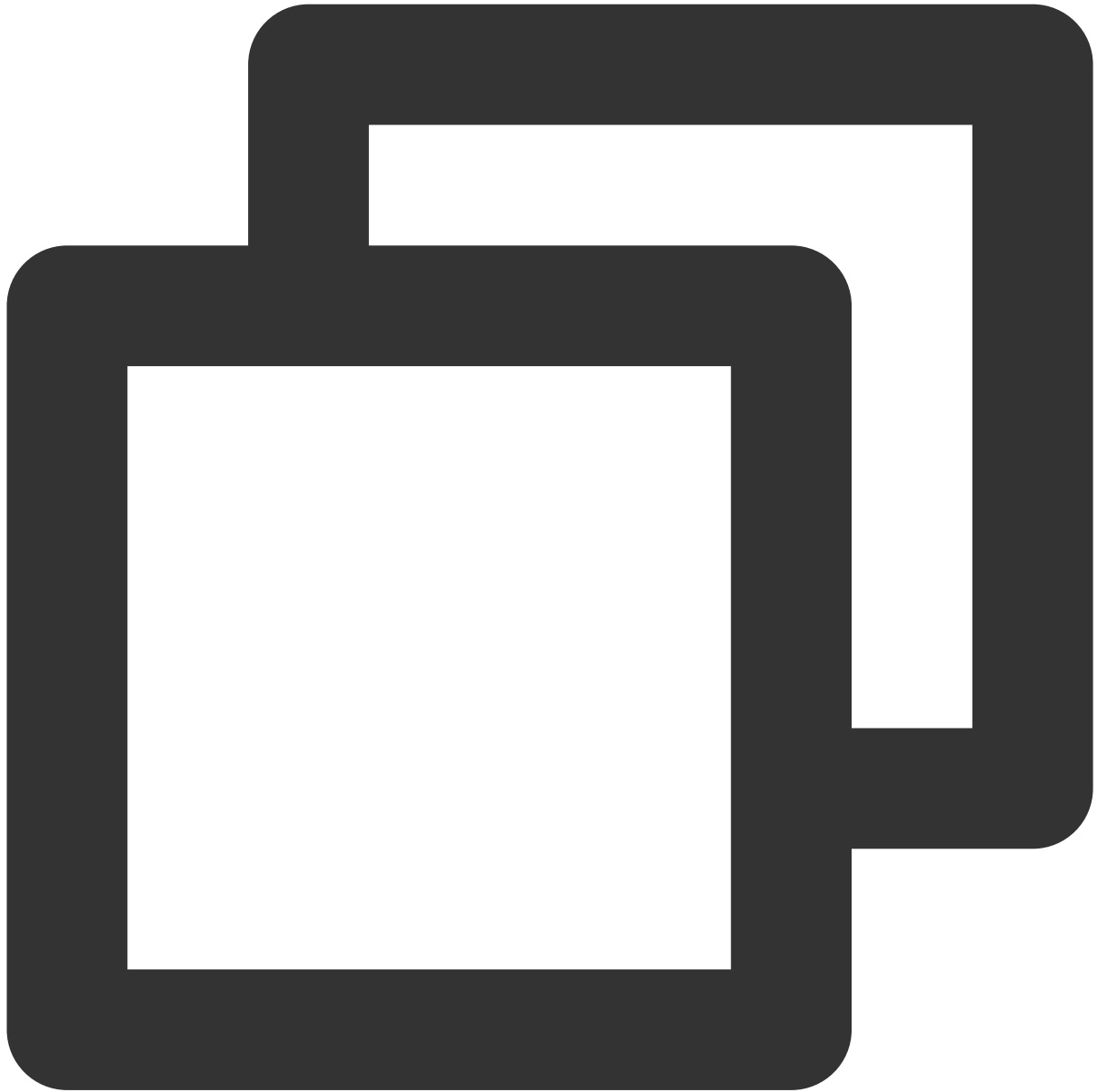


```
{  
  "retCode": 0,  
  "errMsg": "success"  
}
```

Deleting all attributes

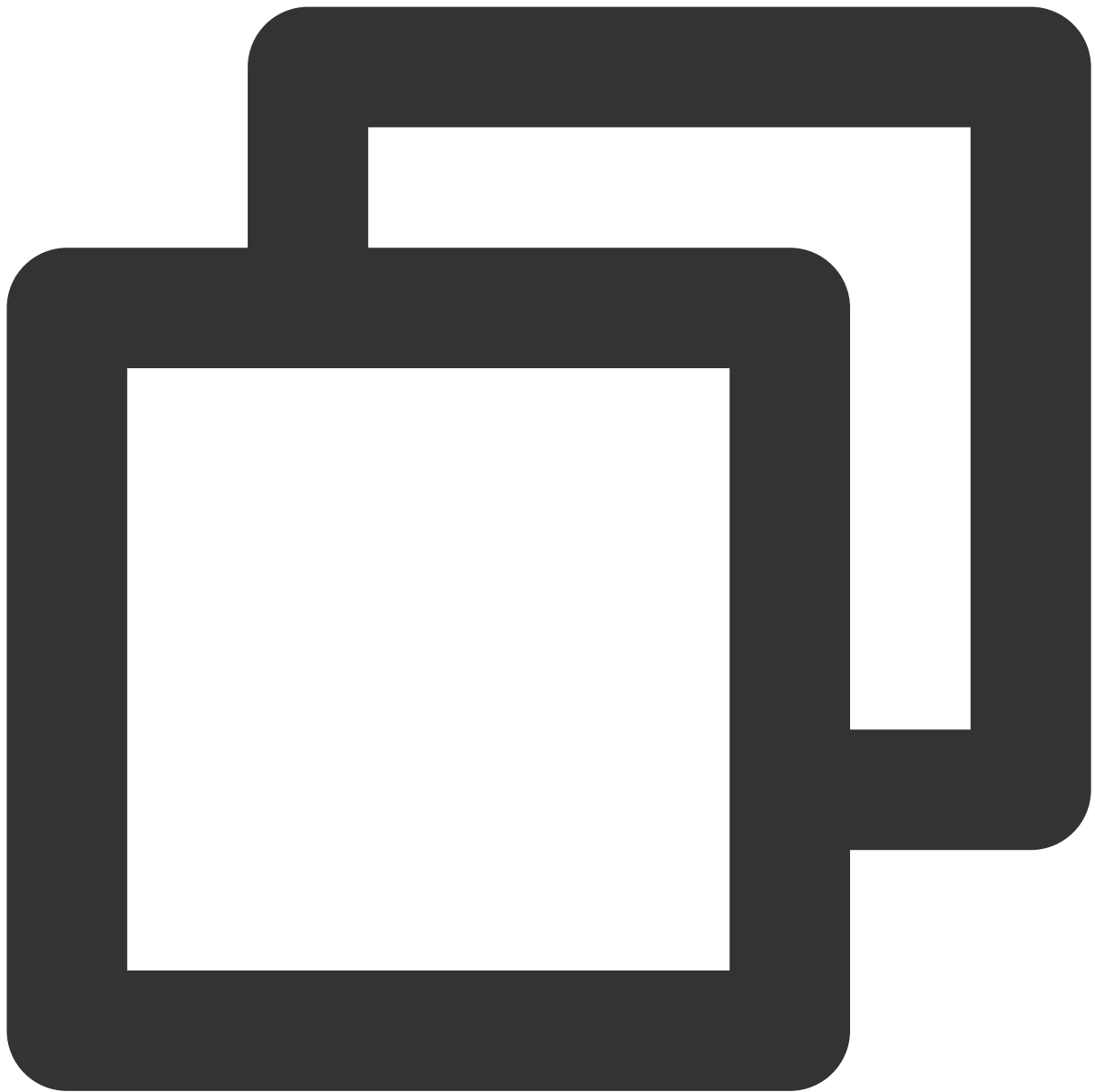
Sample request

Delete all attributes of a token.



```
{
  "cmd": 4,
  "token": "04cac74a714f61bf089987a986363d88****"
}
```

Sample response

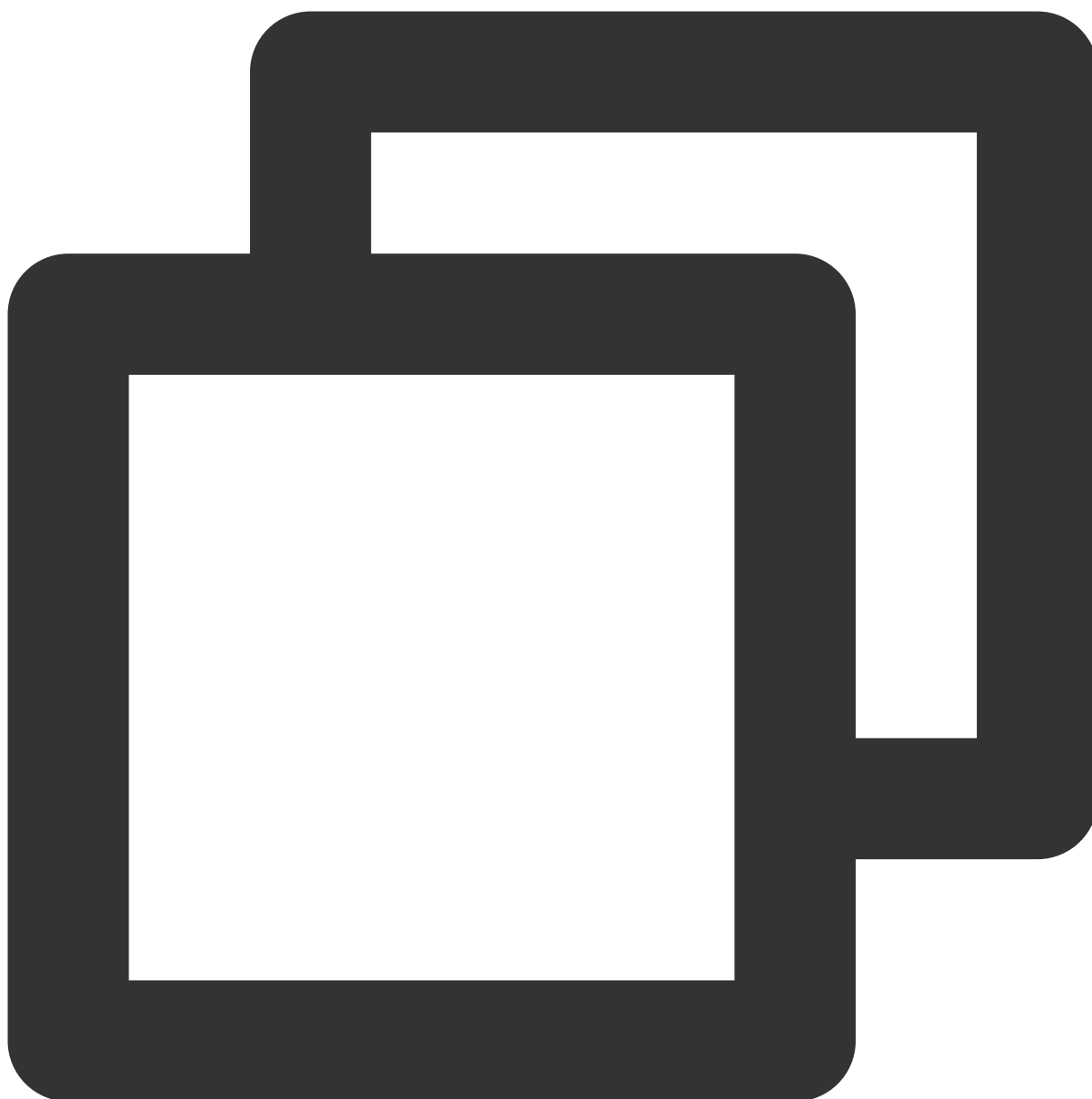


```
{  
  "retCode": 0,  
  "errMsg": "success"  
}
```

Querying attributes

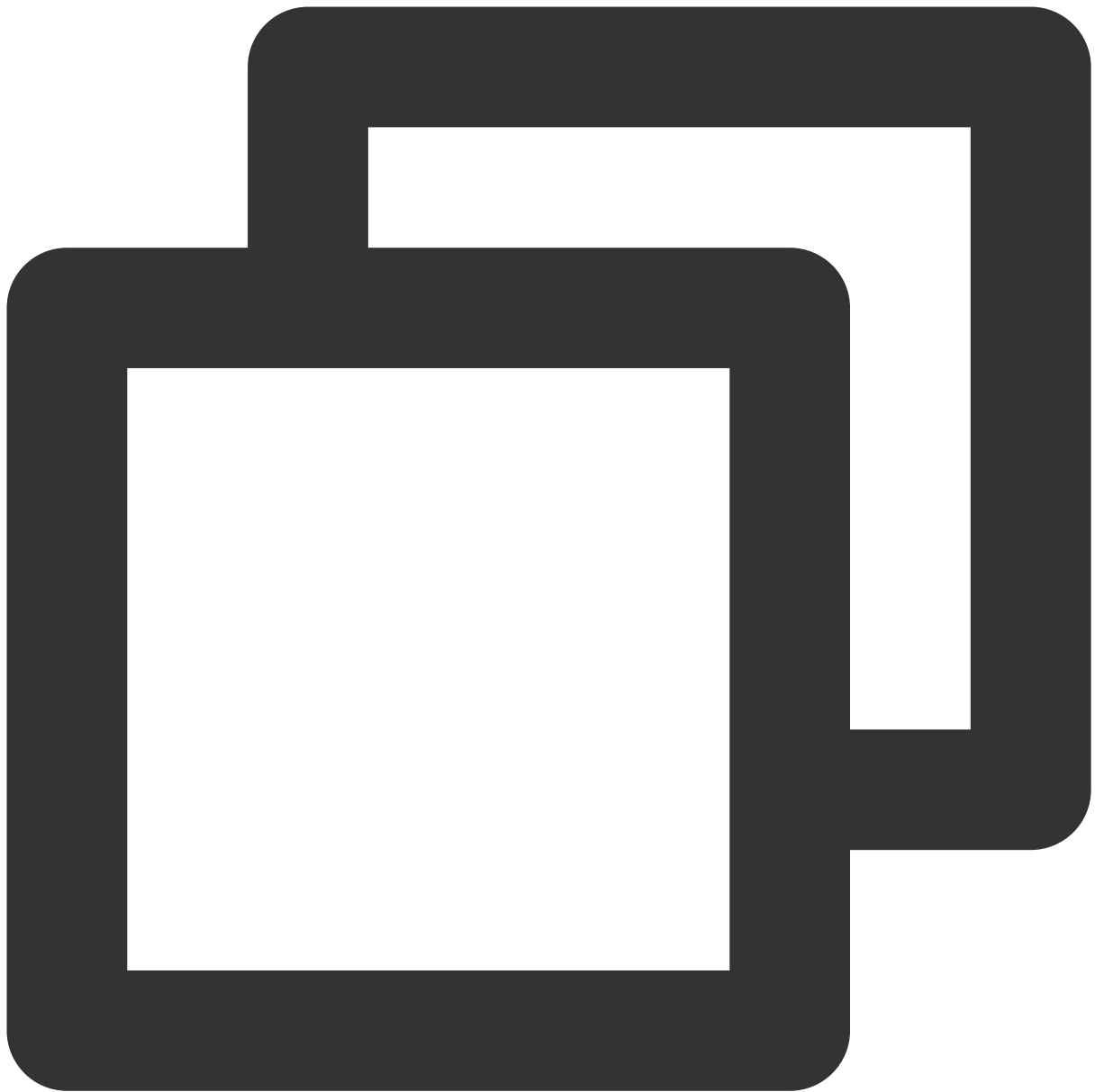
Sample request

Query the attribute details of a token.



```
{  
  "cmd": 5,  
  "token": "04cac74a714f61bf089987a986363d88****"  
}
```

Sample response



```
{
  "retCode": 0,
  "errMsg": "success",
  "attributeInfo": {
    "attributeMap": {
      "nickname": "workman"
    }
  }
}
```


Server-Side Error Codes

Last updated : 2024-01-17 14:26:44

Error Code	Description	Feedback API
1008001	Parameter parsing error	General API
1008002	Parameter missing	General API
1008003	Authentication failed	General API
1008004	Failed to call internal service	General API
1008006	Invalid token	Tag operation and account operation APIs
1008007	Invalid parameter	General API
1008011	File upload failed	Certificate upload API and number package upload API
1008012	The uploaded file is empty	Certificate upload API and number package upload API
1008013	Failed to parse the certificate	Certificate upload API
1008015	The push task ID does not exist	Statistics query API
1008016	Incorrect date and time parameter format	Statistics query API
1008019	The content is considered non-compliant by the content security service	Push API
1008020	Failed to verify the certificate package name	Certificate upload API
1008021	Failed to verify the content and format of the .p12 certificate	Certificate upload API
1008022	Incorrect .p12 certificate password	Certificate upload API
1008023	iOS push cert was expired for the environment: PRODUCT	Push certificate verification error. Check whether the certificate is within its validity period.
1008025	Failed to create the application. The application already exists under the product	App creation API

1008026	Batch operation partially failed	Account binding and query API
1008027	Batch operation completely failed	Account binding and query API
1008028	Exceeded the frequency limit: Exceeded the call frequency limit of statistics APIs. Exceeded the push frequency limits of push to all devices, push to devices with specified tags, and push by account package. For related information, see "Note" in Push API.	Statistics API and push API
1008029	Invalid token	Single push API, account binding API, and tag binding API
1008030	The app is not paid	General error
1008031	Application resources are terminated	General error
10110008	The queried token or account does not exist	Account binding and query API
10010005	The push target does not exist	Push API
10010012	Invalid push time	Push API
10010018	Repeated push	Push APIs for full push and tag push
1008035	The application AccessID is incorrect, or the service access point of your application does not match the domain address entered. Refer to Service URL	General error

Server SDKs

Last updated : 2024-01-17 14:26:44

In addition to RESTful APIs, TPNS also provides mainstream server API SDKs.

Officially Maintained Versions

The officially maintained versions are released in **TGit - TPNS** as open-source tools.
The source code and sample code for push are provided at the official URLs for your reference.

Project	URL
Java	Official URL
Python	Official URL
PHP	Official URL
C#	Official URL
C++	Official URL
Golang	Official URL

API (Java)

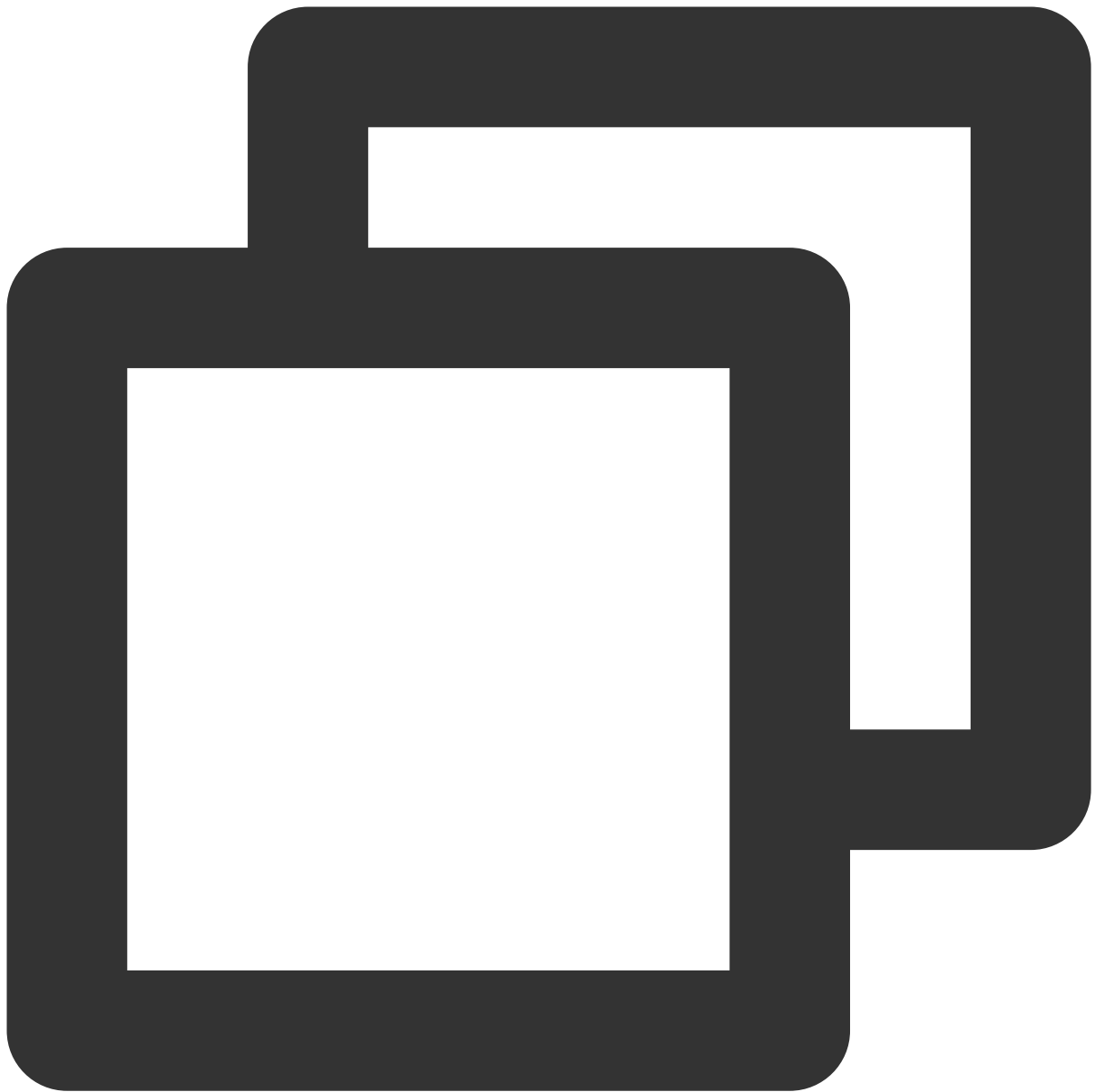
Last updated : 2024-01-17 14:26:44

SDK Description

This SDK is used to encapsulate the Tencent Push Notification Service server APIs and communicate with the Tencent Push Notification Service server. To use it, you only need to import the `XingeApp` package. This SDK mainly encapsulates push-related V3 APIs.

Integration Methods

Import Maven dependencies:



```
<dependency>  
    <groupId>io.github.tpnsPush</groupId>  
    <artifactId>xinge</artifactId>  
    <version>1.2.4.11</version>  
</dependency>
```

Note:

There are `groupId` changes since version 1.2.4.11.

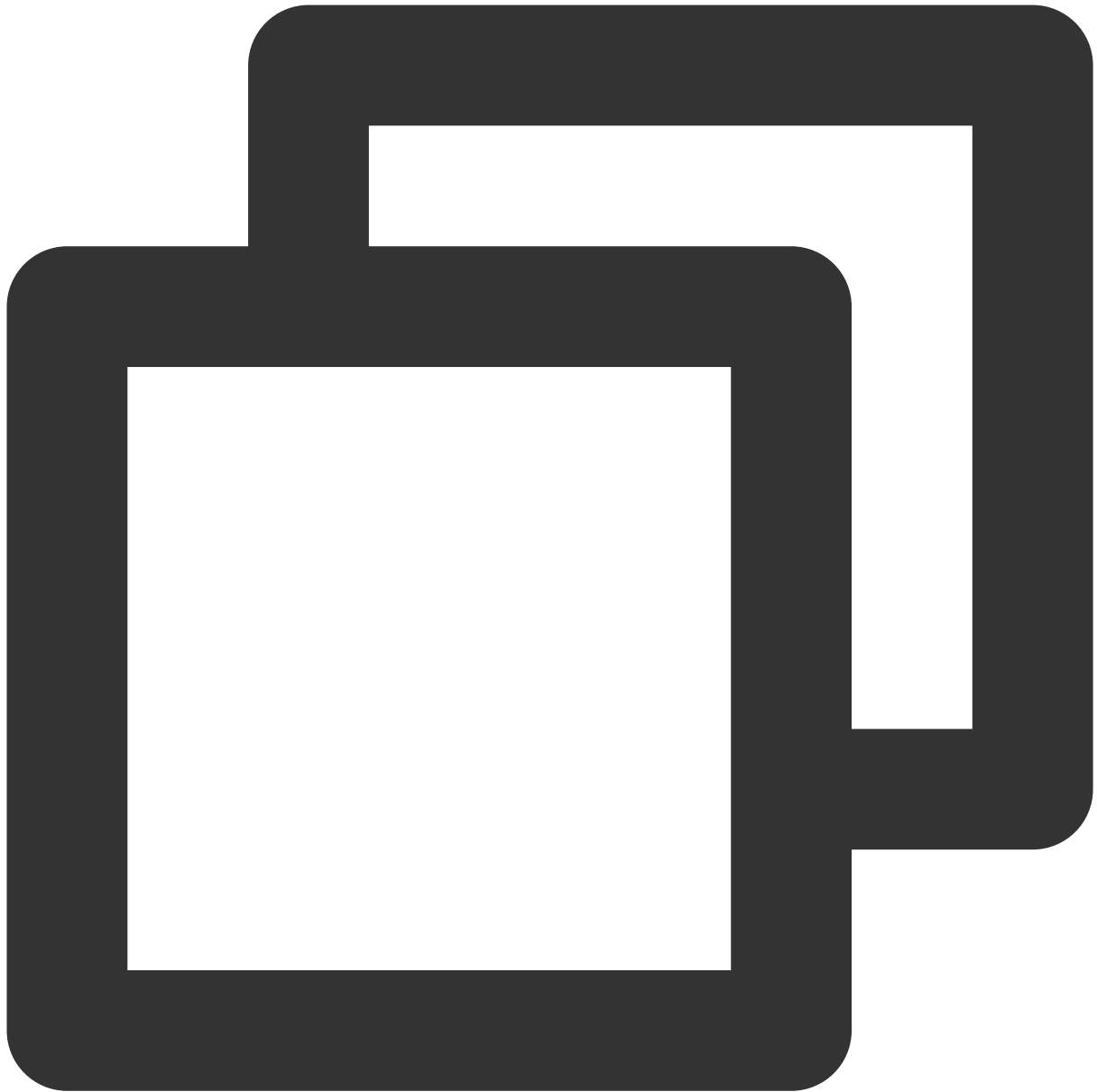
Usage

XingeApp API description

This class provides APIs for interaction with the Tencent Push Notification Service server, which is constructed by `XingeApp.Builder` with the following parameters:

Parameter	Type	Required	Default Value	Description
appId	String	Yes	Empty	Push target <code>AccessID</code> , which can be obtained on the Product Management page in the console.
secretKey	String	Yes	Empty	Push key, which can be obtained on the Product Management > Configuration Management > Basic Configuration page.
proxy	Proxy	No	Proxy.NO_PROXY	This parameter can be set if a proxy needs to be configured.
connectTimeout	Integer	No	10s	Connection timeout period.
readTimeout	Integer	No	10s	Request timeout period.
domainUrl	String	No	https://openapi.xg.qq.com/	API request service domain name address, which is the XG API address by default. Change the value to the service URL corresponding to your service access point.

Sample



```
XingeApp xingeApp = new XingeApp.Builder()  
    .appId(appid)  
    .secretKey(secretKey)  
    .domainUrl("https://api.tpns.tencent.com/")  
    .build();  
  
PushAppRequest pushAppRequest = new PushAppRequest();  
// Complete the `PushAppRequest` message  
...  
JSONObject ret = xingeApp.pushApp(pushAppRequest );
```

pushAppRequest API description

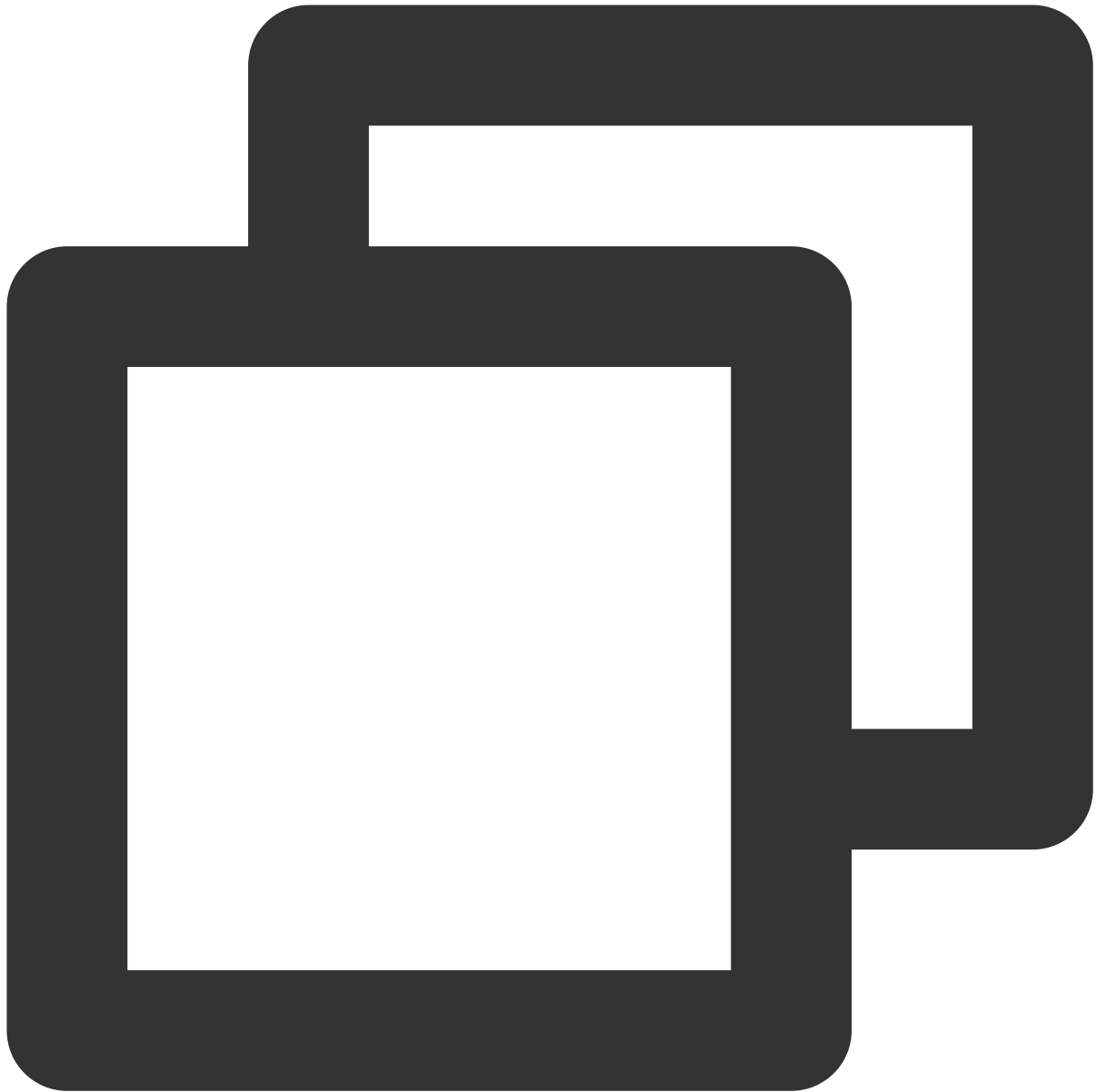
This class provides an encapsulated push message body. For the description and usage of parameters, please see [Push API](#).

Samples

Note:

The `XingeAppSimple` class provides API examples related to message push, account binding and unbinding, etc.

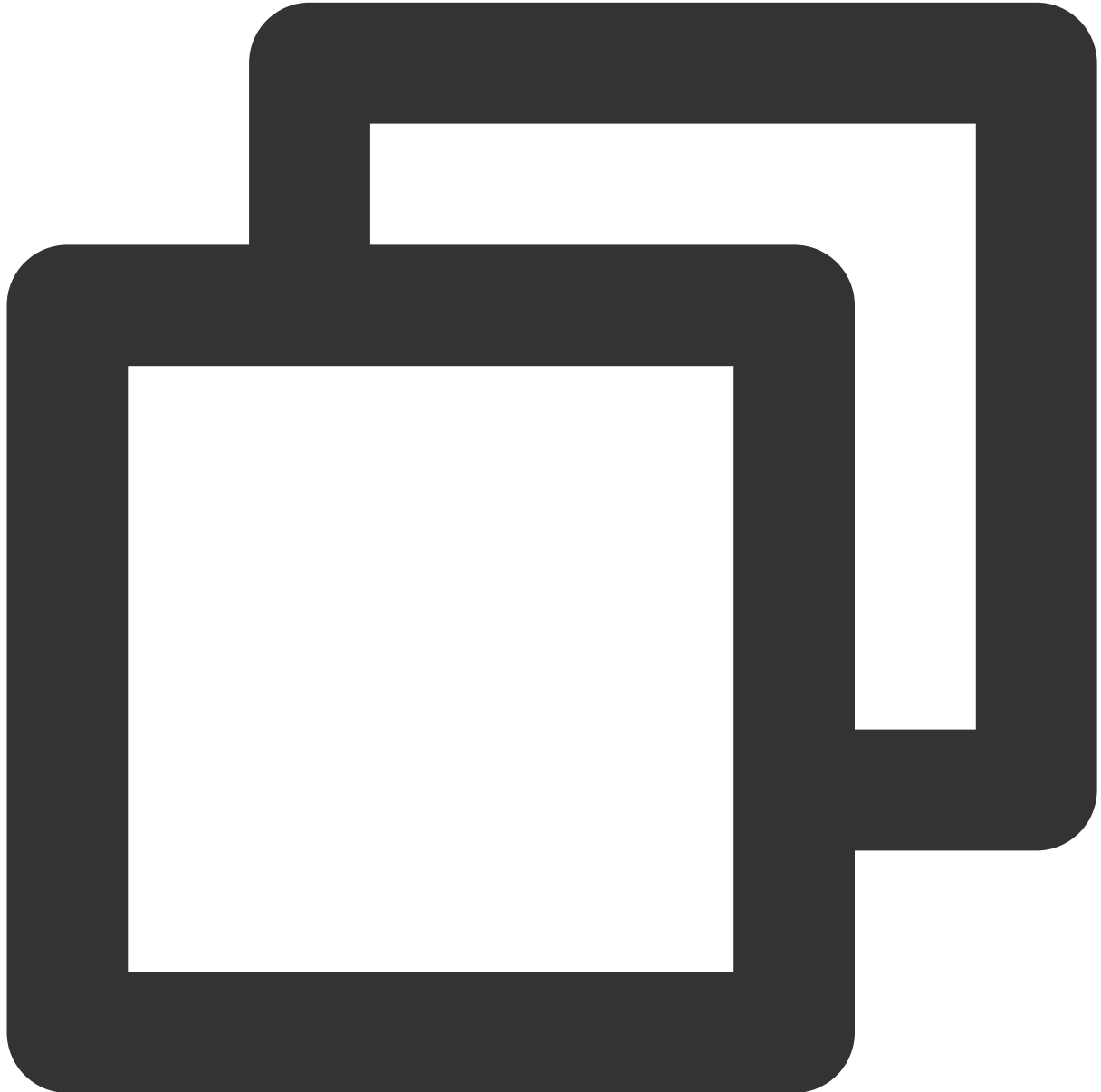
Push to a single Android device



```
public JSONObject pushTokenAndroid() {  
    PushAppRequest pushAppRequest = new PushAppRequest();  
    pushAppRequest.setAudience_type(AudienceType.token);  
    pushAppRequest.setMessage_type(MessageType.notify);  
    Message message = new Message();  
    message.setTitle("title");  
    message.setContent("content");  
    pushAppRequest.setMessage(message);  
    MessageAndroid messageAndroid = new MessageAndroid();  
    message.setAndroid(messageAndroid);  
    ArrayList<String> tokenList = new ArrayList();  
}
```

```
tokenList.add("04cac74a714f61bf089*****63d880993");  
pushAppRequest.setToken_list(tokenList);  
return this.xingeApp.pushApp(pushAppRequest);  
}
```

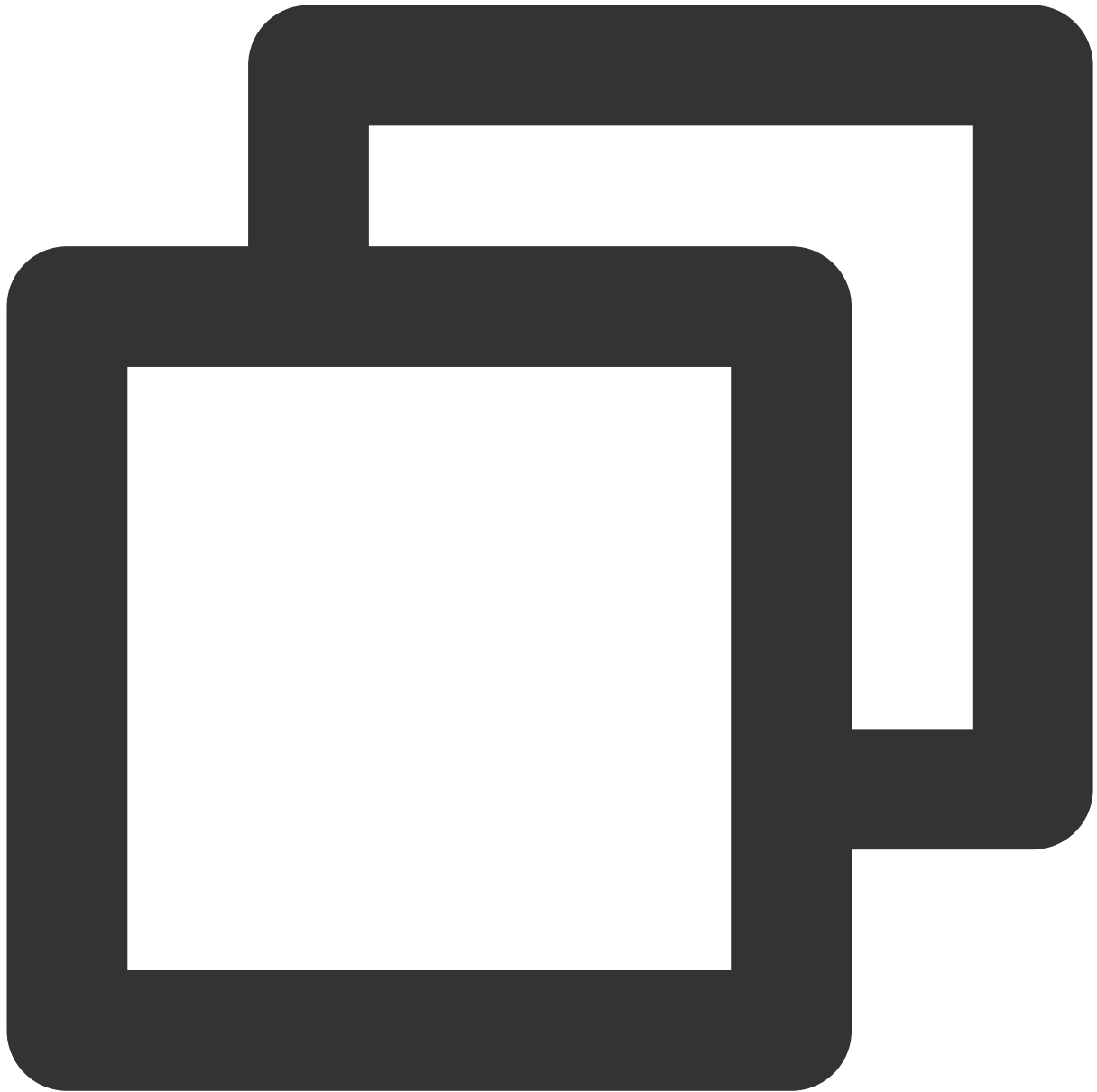
Push to a single Android account



```
public JSONObject pushAccountAndroid() {  
    PushAppRequest pushAppRequest = new PushAppRequest();  
    pushAppRequest.setAudience_type(AudienceType.account);  
}
```

```
pushAppRequest.setPlatform(Platform.android);
pushAppRequest.setMessage_type(MessageType.notify);
pushAppRequest.setAccount_push_type(1);
Message message = new Message();
message.setTitle("title");
message.setContent("content");
MessageAndroid messageAndroid = new MessageAndroid();
message.setAndroid(messageAndroid);
pushAppRequest.setMessage(message);
ArrayList<String> accountList = new ArrayList();
accountList.add("123");
pushAppRequest.setAccount_list(accountList);
return this.xingeApp.pushApp(pushAppRequest);
}
```

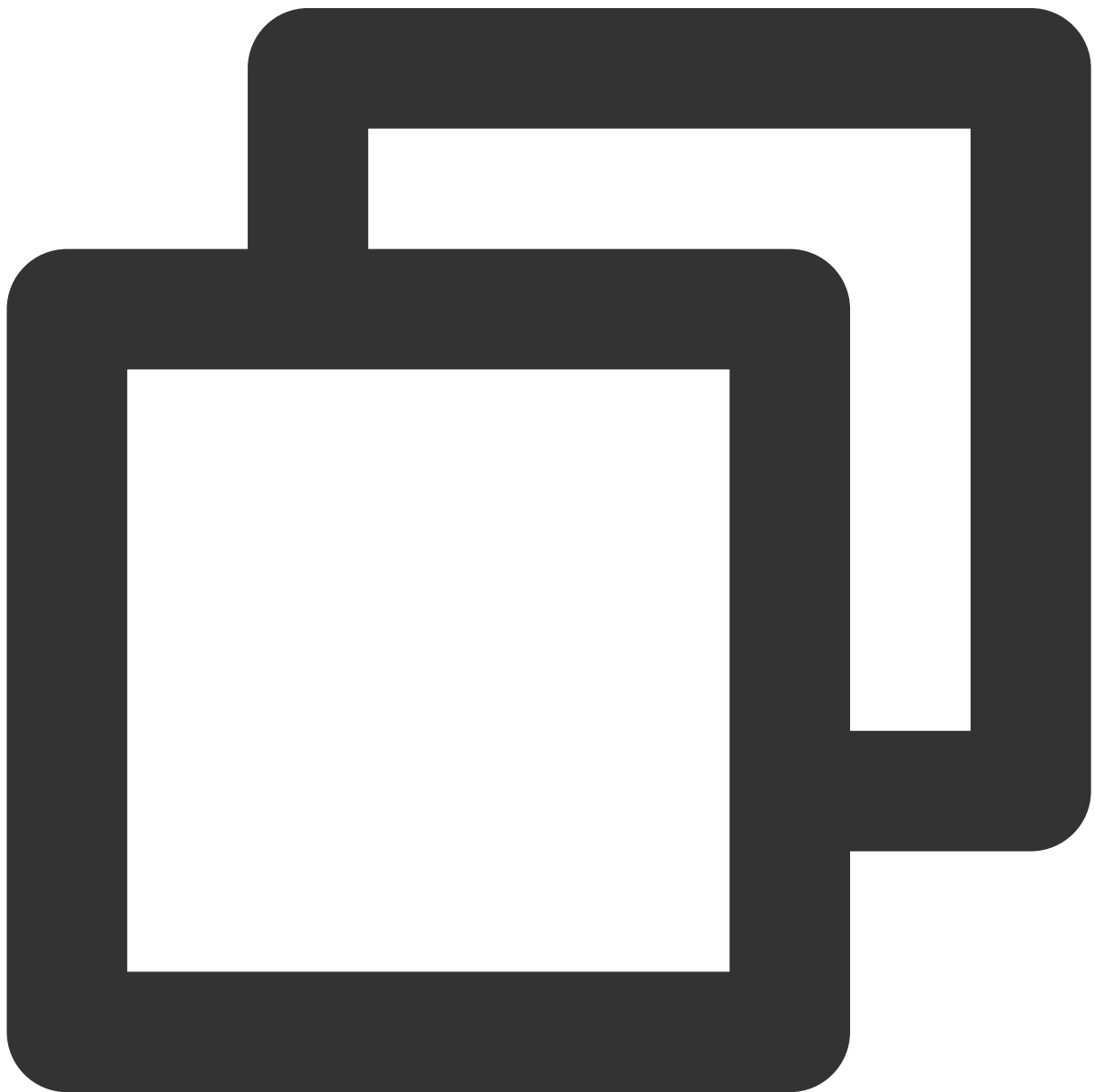
Push to Android devices with specified tags



```
public JSONObject pushTagAndroid() {  
    PushAppRequest pushAppRequest = new PushAppRequest();  
    pushAppRequest.setAudience_type(AudienceType.tag);  
    pushAppRequest.setPlatform(Platform.android);  
    pushAppRequest.setMessage_type(MessageType.notify);  
    Message message = new Message();  
    message.setTitle("title");  
    message.setContent("content");  
    MessageAndroid messageAndroid = new MessageAndroid();  
    message.setAndroid(messageAndroid);  
    pushAppRequest.setMessage(message);  
}
```

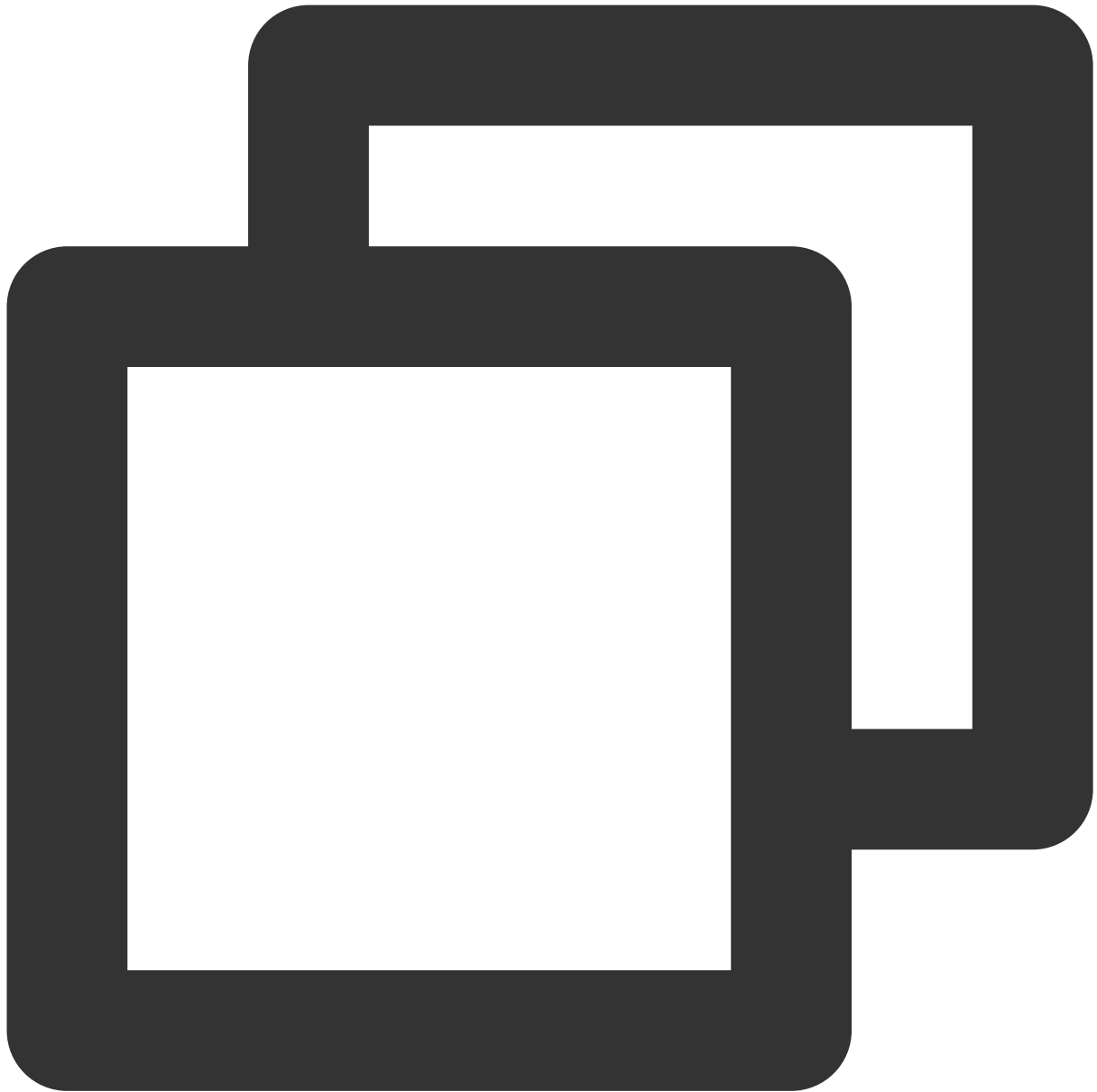
```
ArrayList<String> tagList = new ArrayList();  
tagList.add("tag");  
TagListObject tagListObject = new TagListObject();  
tagListObject.setTags(tagList);  
tagListObject.setOp(OpType.OR);  
pushAppRequest.setTag_list(tagListObject);  
return this.xingeApp.pushApp(pushAppRequest);  
}
```

Push to all Android devices



```
public JSONObject pushAllAndroid() {
    PushAppRequest pushAppRequest = new PushAppRequest();
    pushAppRequest.setAudience_type(AudienceType.all);
    pushAppRequest.setPlatform(Platform.android);
    pushAppRequest.setMessage_type(MessageType.notify);
    Message message = new Message();
    message.setTitle("title");
    message.setContent("content");
    MessageAndroid messageAndroid = new MessageAndroid();
    message.setAndroid(messageAndroid);
    pushAppRequest.setMessage(message);
    return this.xingeApp.pushApp(pushAppRequest);
}
```

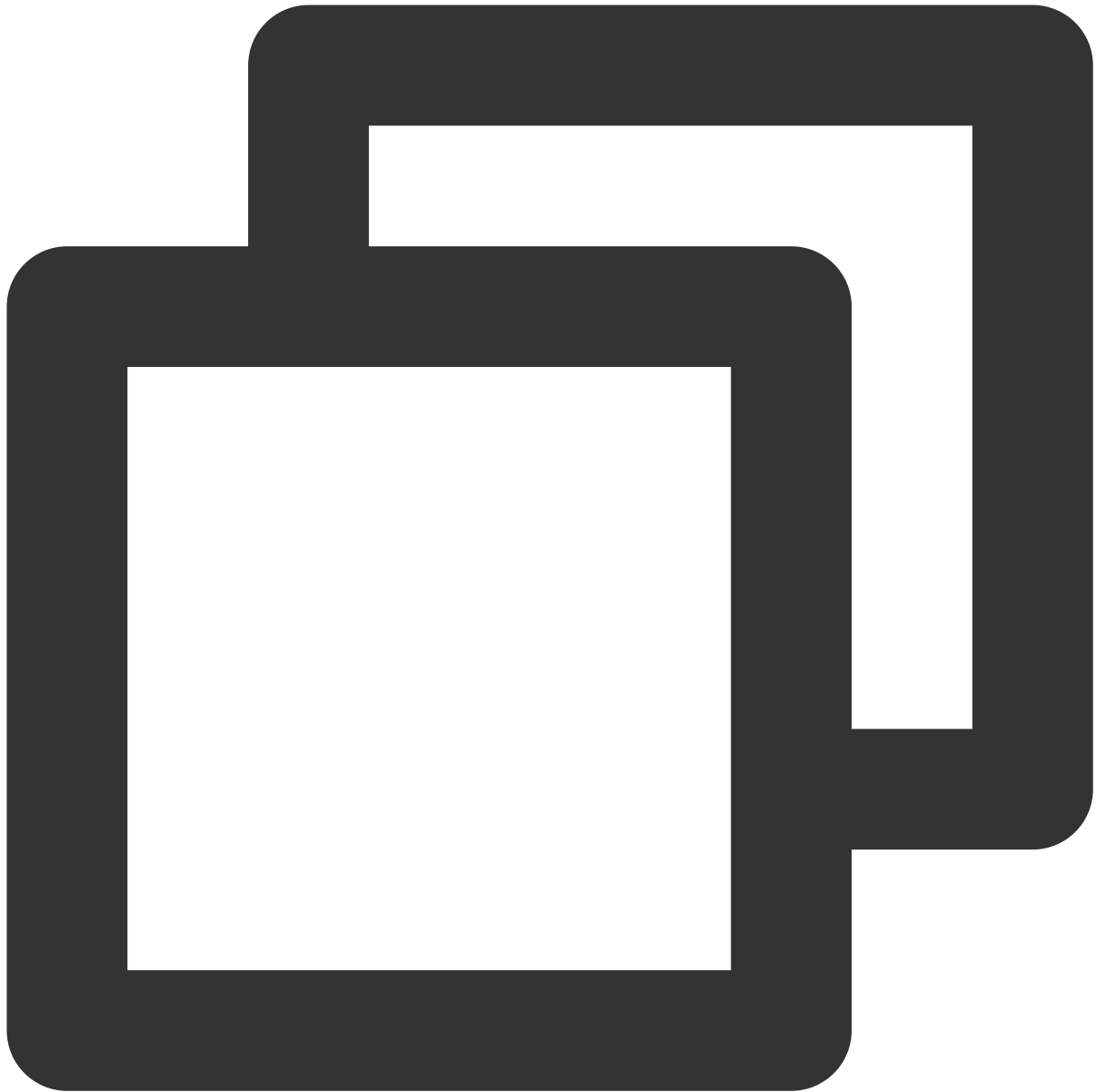
Push to a single iOS device



```
public JSONObject pushTokenIos(){
    PushAppRequest pushAppRequest = new PushAppRequest();
    pushAppRequest.setAudience_type(AudienceType.token);
    pushAppRequest.setEnvironment(Environment.valueOf("dev"));
    pushAppRequest.setMessage_type(MessageType.notify);
    Message message = new Message();
    message.setTitle("title");
    message.setContent("content");
    MessageIOS messageIOS = new MessageIOS();
    Alert alert = new Alert();
    Aps aps = new Aps();
```

```
aps.setAlert(alert);  
messageIOS.setAps(aps);  
message.setIos(messageIOS);  
pushAppRequest.setMessage(message);  
ArrayList<String> tokenList = new ArrayList<String>();  
tokenList.add("0250df875c93c55*****536b54fc1c49f");  
pushAppRequest.setToken_list(tokenList);  
return this.xingeApp.pushApp(pushAppRequest);  
}
```

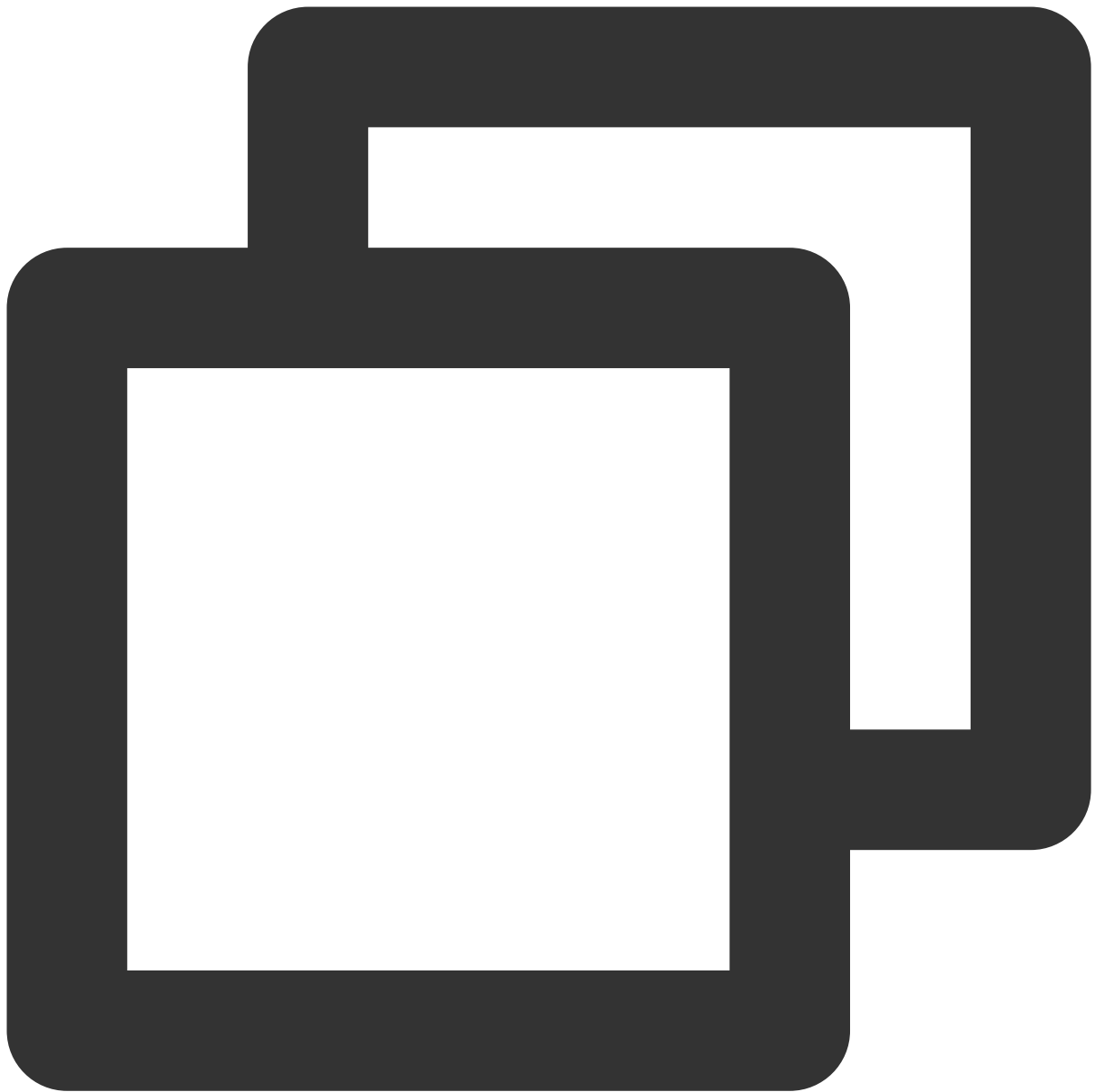
Push to a single iOS account



```
public JSONObject pushAccountIos() {  
    PushAppRequest pushAppRequest = new PushAppRequest();  
    pushAppRequest.setAudience_type(AudienceType.account);  
    pushAppRequest.setEnvironment(Environment.valueOf("dev"));  
    pushAppRequest.setMessage_type(MessageType.notify);  
    Message message = new Message();  
    message.setTitle("Account push");  
    message.setContent("content");  
    MessageIOS messageIOS = new MessageIOS();  
    Alert alert = new Alert();  
    Aps aps = new Aps();
```

```
aps.setAlert(alert);  
messageIOS.setAps(aps);  
message.setIos(messageIOS);  
pushAppRequest.setMessage(message);  
ArrayList<String> accountList = new ArrayList();  
accountList.add("1122");  
pushAppRequest.setAccount_list(accountList);  
return this.xingeApp.pushApp(pushAppRequest);  
}
```

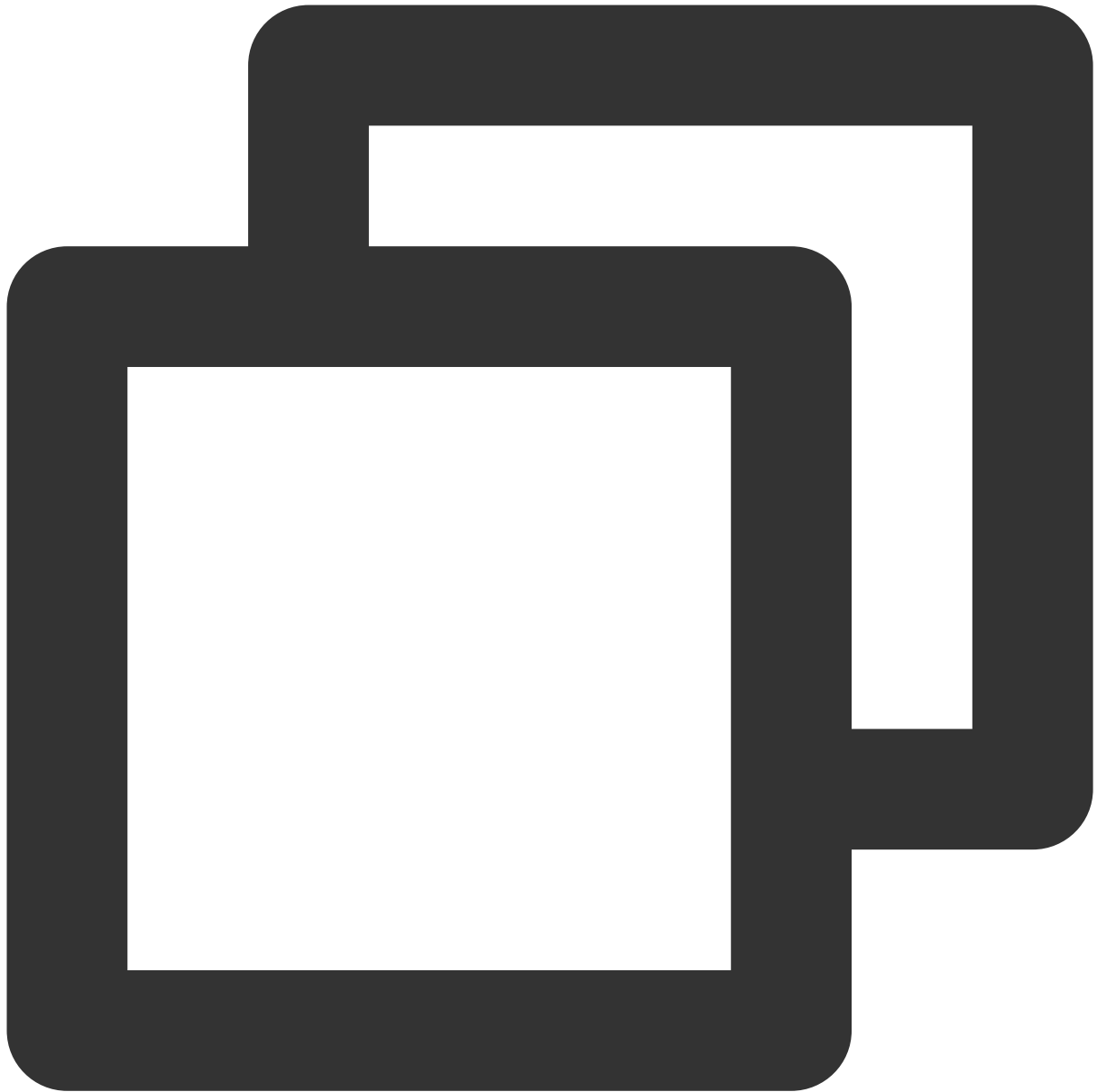
Push to iOS devices with specified tags



```
public JSONObject pushTagIos() {  
    PushAppRequest pushAppRequest = new PushAppRequest();  
    pushAppRequest.setAudience_type(AudienceType.tag);  
    pushAppRequest.setEnvironment(Environment.valueOf("dev"));  
    pushAppRequest.setMessage_type(MessageType.notify);  
    Message message = new Message();  
    message.setTitle("Tag push");  
    message.setContent("content");  
    MessageIOS messageIOS = new MessageIOS();  
    Alert alert = new Alert();  
    Aps aps = new Aps();
```

```
aps.setAlert(alert);  
messageIOS.setAps(aps);  
message.setIos(messageIOS);  
pushAppRequest.setMessage(message);  
ArrayList<String> tagList = new ArrayList();  
tagList.add("1122");  
TagListObject tagListObject = new TagListObject();  
tagListObject.setTags(tagList);  
tagListObject.setOp(OpType.OR);  
pushAppRequest.setMessage(message);  
pushAppRequest.setTag_list(tagListObject);  
return this.xingeApp.pushApp(pushAppRequest);  
}
```

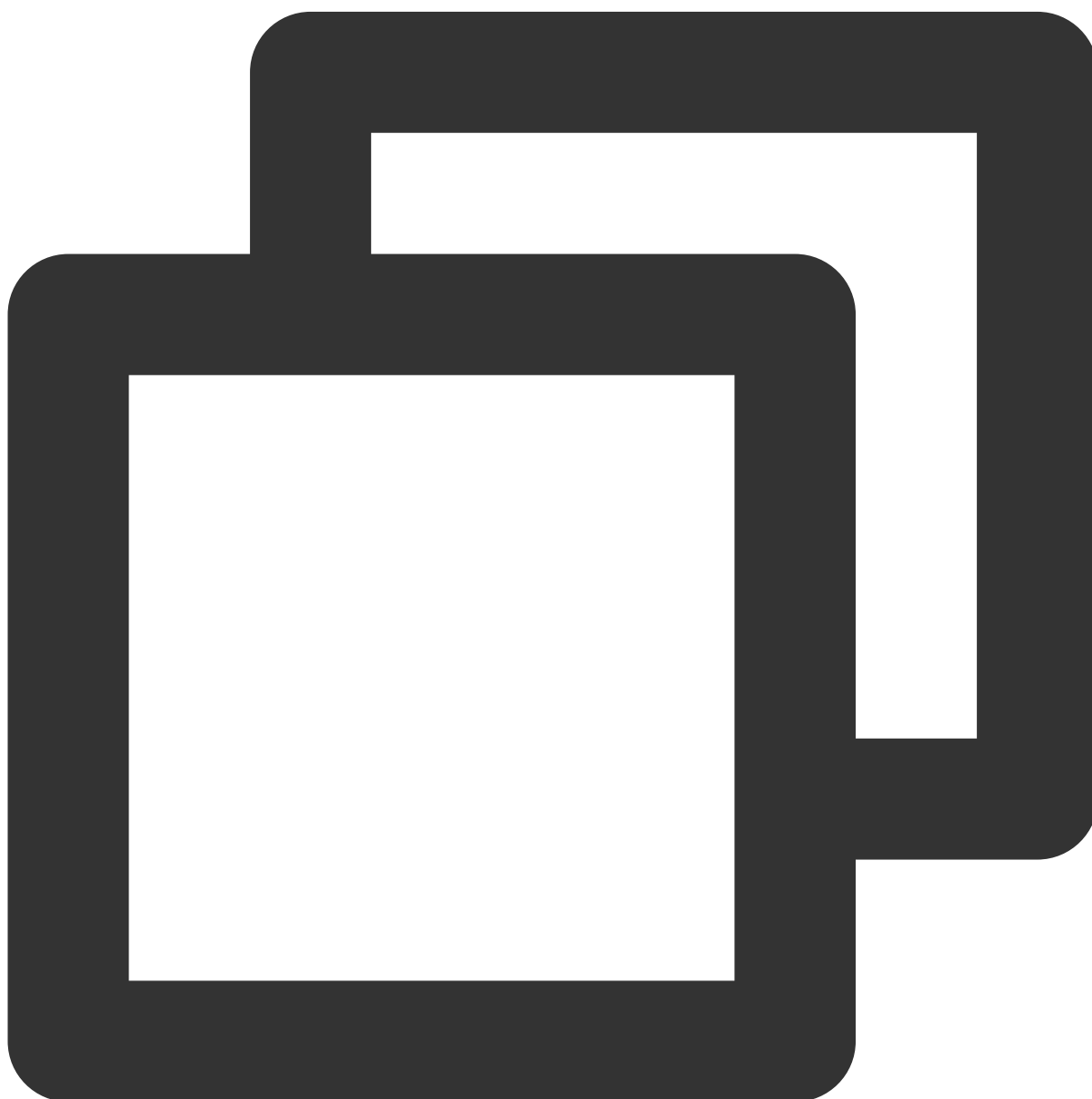
Push to all iOS devices



```
public JSONObject pushAllIos() {  
    PushAppRequest pushAppRequest = new PushAppRequest();  
    pushAppRequest.setAudience_type(AudienceType.all);  
    pushAppRequest.setEnvironment(Environment.valueOf("dev"));  
    pushAppRequest.setMessage_type(MessageType.notify);  
    Message message = new Message();  
    message.setTitle("Full push");  
    message.setContent("content");  
    MessageIOS messageIOS = new MessageIOS();  
    Alert alert = new Alert();  
    Aps aps = new Aps();  
}
```

```
aps.setAlert(alert);  
messageIOS.setAps(aps);  
message.setIos(messageIOS);  
pushAppRequest.setMessage(message);  
return this.xingeApp.pushApp(pushAppRequest);  
}
```

Push response sample



```
{"result":{"{}","environment":"","push_id":"1328245138690125824","err_msg":"NO_ERROR
```

Server Return Codes

For the meaning of `ret_code` , please see [Server-Side Error Codes](#).

FAQs

What should I do if the error code 10101 or 403 is returned?

Check whether the application `AccessID` matches with `SecretKey` , and whether `domainUrl` corresponds to the [service access point](#) of the application.

What should I do if the API returns the error code 1008007 that indicates invalid parameters?

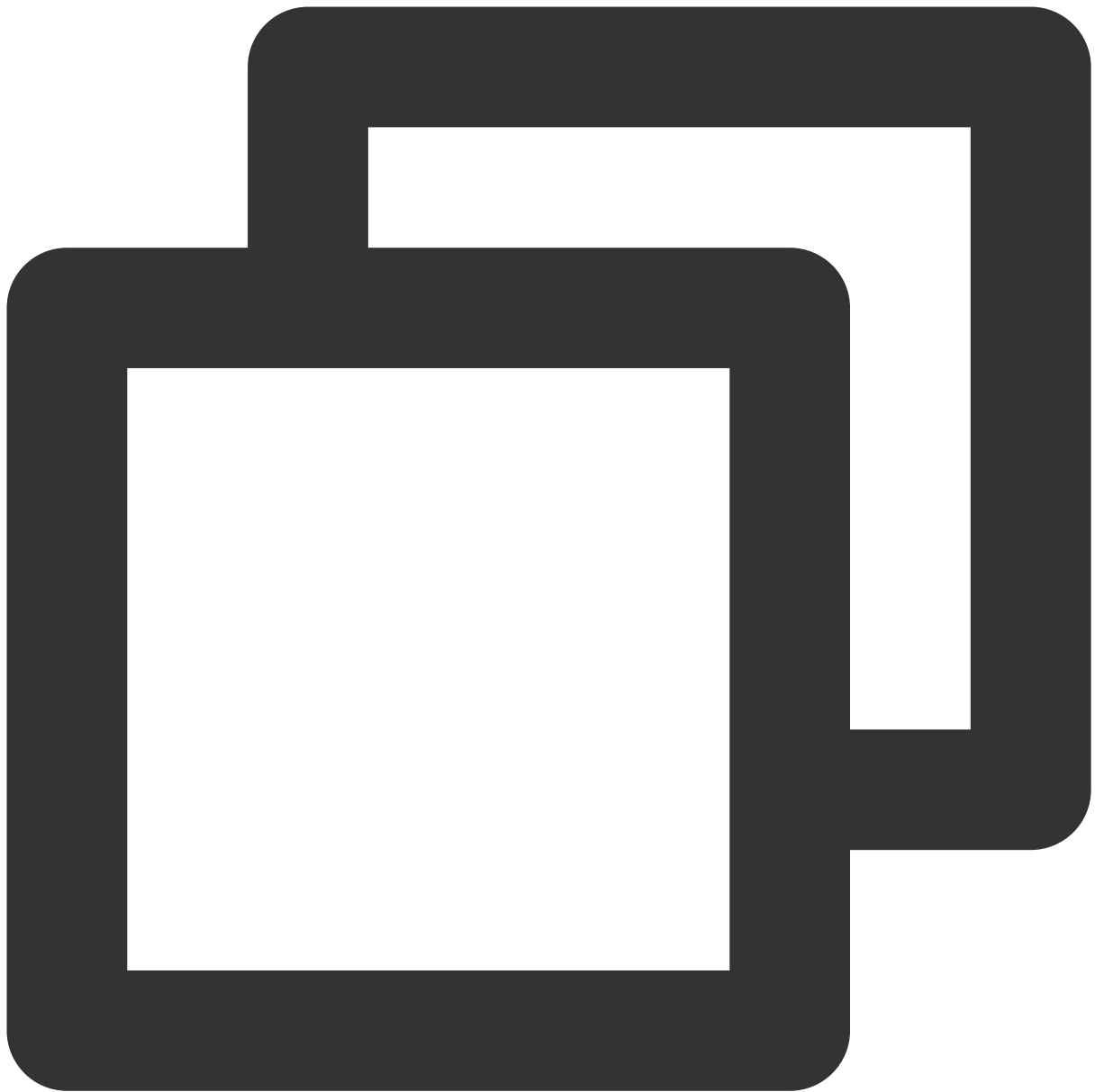
Refer to [Push API](#) and enter all the parameters correctly.

Are there SDKs in other programming languages?

You can find more server SDKs in other programming languages on the [SDK Download](#) page.

What should I do if the push API returns `Peer certificate cannot be authenticated with given CA certificates` ?

This is because the CA certificate has expired. Enter the certificate directory and run the `openssl` command to view the expiration time:



```
# openssl x509 -in signed.crt -noout -dates
```

Replace `signed.crt` with the name of the certificate on your server.