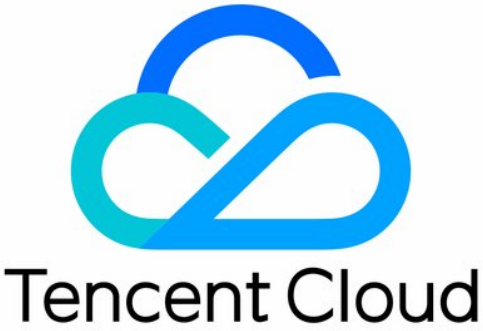
Low-code Interactive Classroom

Service Callbacks

Product Documentation



©2013-2022 Tencent Cloud. All rights reserved.

Copyright Notice

©2013-2024 Tencent Cloud. All rights reserved.

Copyright in this document is exclusively owned by Tencent Cloud. You must not reproduce, modify, copy or distribute in any way, in whole or in part, the contents of this document without Tencent Cloud's the prior written consent.

Trademark Notice

Tencent Cloud

All trademarks associated with Tencent Cloud and its services are owned by Tencent Cloud Computing (Beijing) Company Limited and its affiliated companies. Trademarks of third parties referred to in this document are owned by their respective proprietors.

Service Statement

This document is intended to provide users with general information about Tencent Cloud's products and services only and does not form part of Tencent Cloud's terms and conditions. Tencent Cloud's products or services are subject to change. Specific products and services and the standards applicable to them are exclusively provided for in Tencent Cloud's applicable terms and conditions.

Service Callbacks

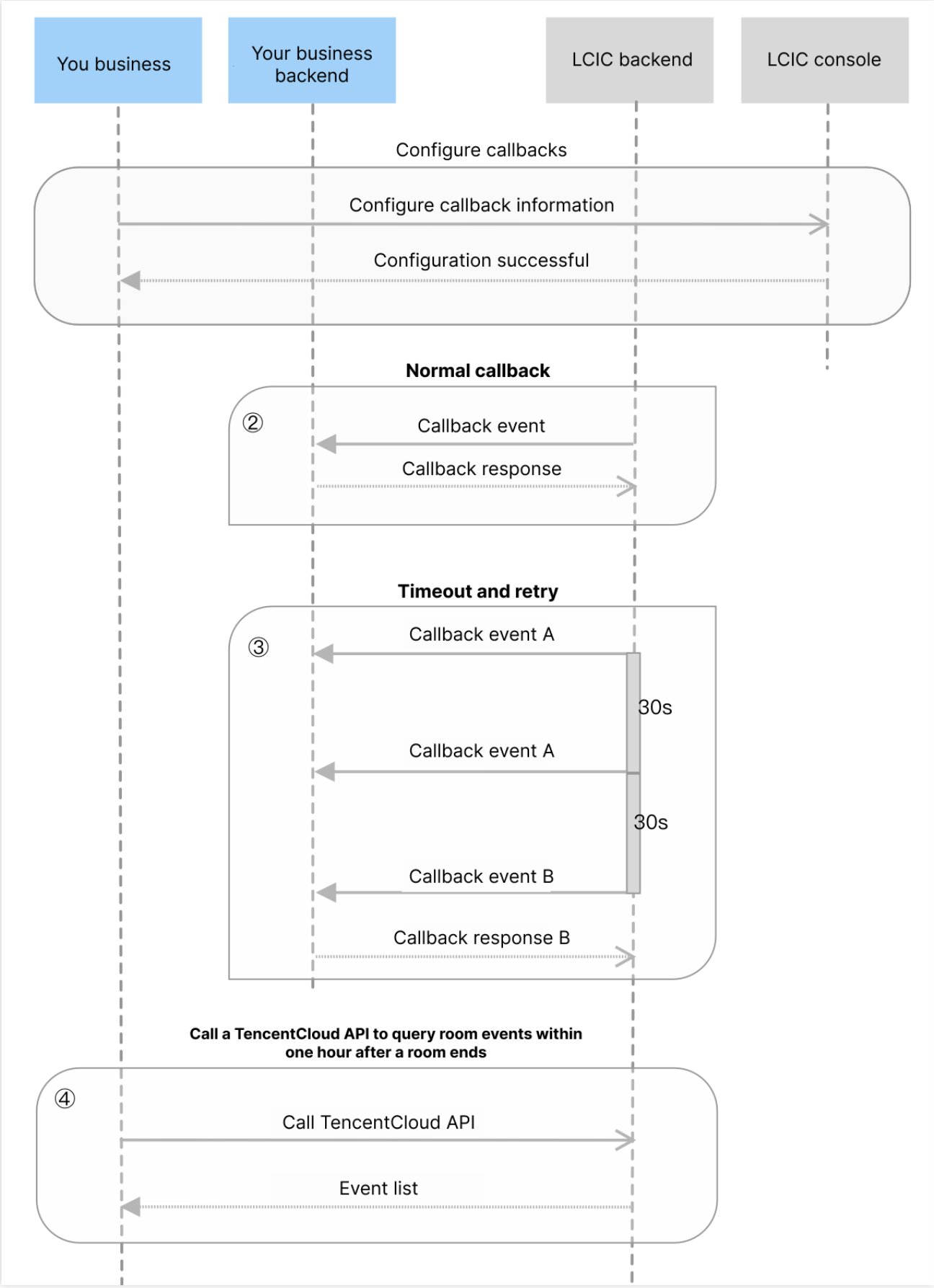
Last updated：2023-09-05 18:14:00

Overview

Note:

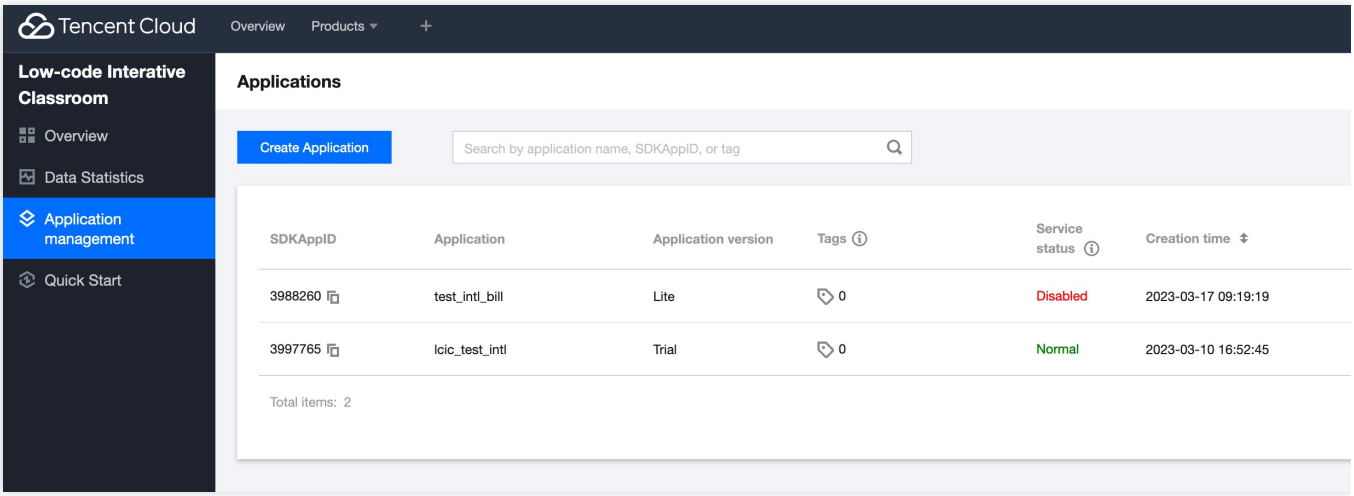
LCIC can send you callbacks to notify you of different events in your business. They allow you to collect statistics before, during, and after classes.

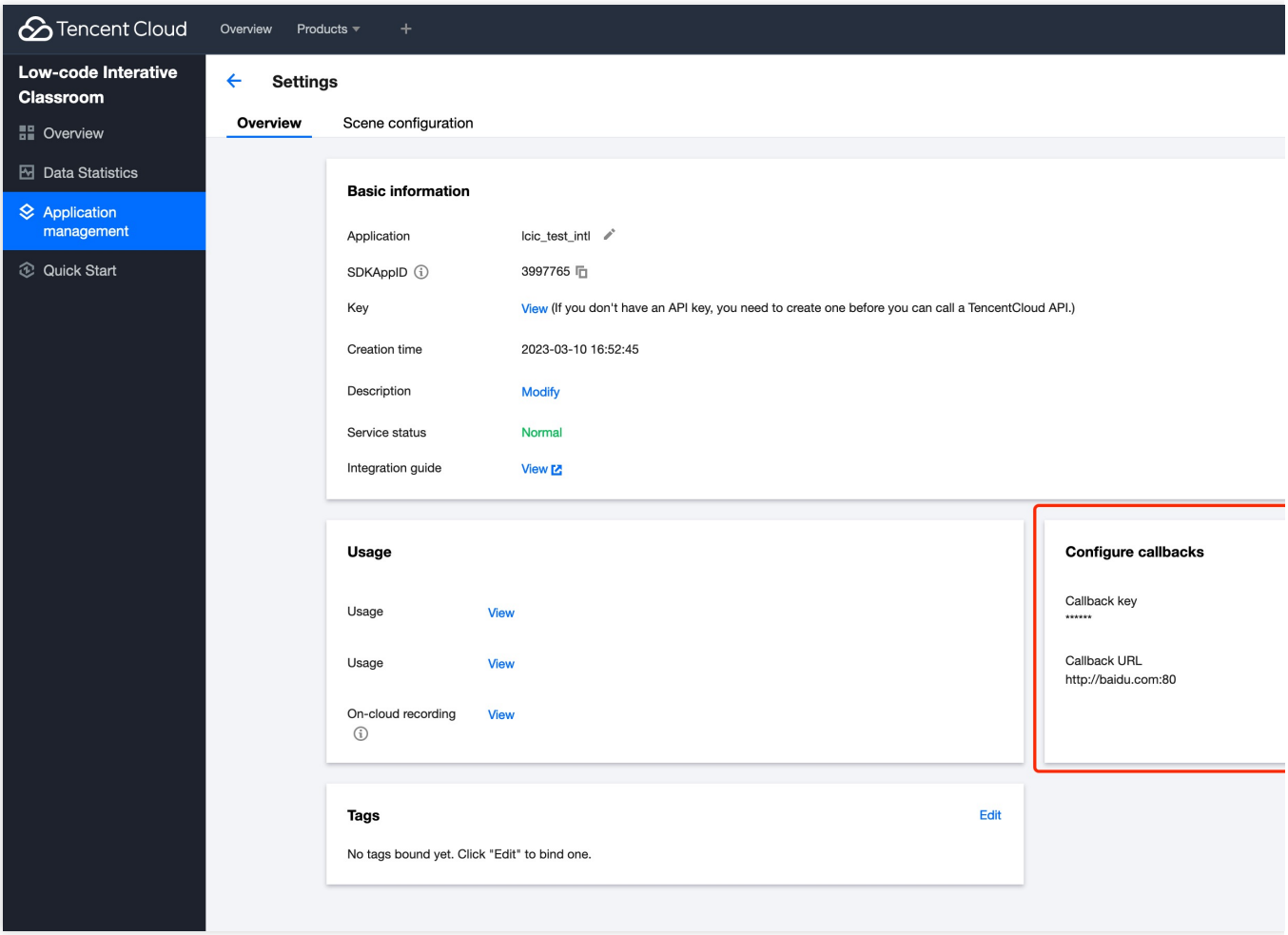
©2013-2022 Tencent Cloud. All rights reserved.



©2013-2022 Tencent Cloud. All rights reserved.

1. Configure a callback URL: Go to the LCIC console and select Application Management on the left sidebar. Click **Settings**, and configure a callback URL in the **Configure callbacks** area.





©2013-2022 Tencent Cloud. All rights reserved.

2. You can use the GetRoomEvent API to obtain the events of a room. This API must be called within one hour of the end of a class. After one hour, the room events will be cleared.

3. Room event list

Event Type	Event Name	Description
Room events	RoomStart	The room started.
	RoomEnd	The room ended.
	RoomExpire	The room expired.
Recording events	RecordFinish	The recording ended.
Member events	MemberJoin	A user joined the room.
	MemberQuit	A user left the room.
Document events	DocumentTranscodeFinish	The transcoding of a document is finished.
	DocumentCreate	A document was created.
	DocumentDelete	A document was deleted.

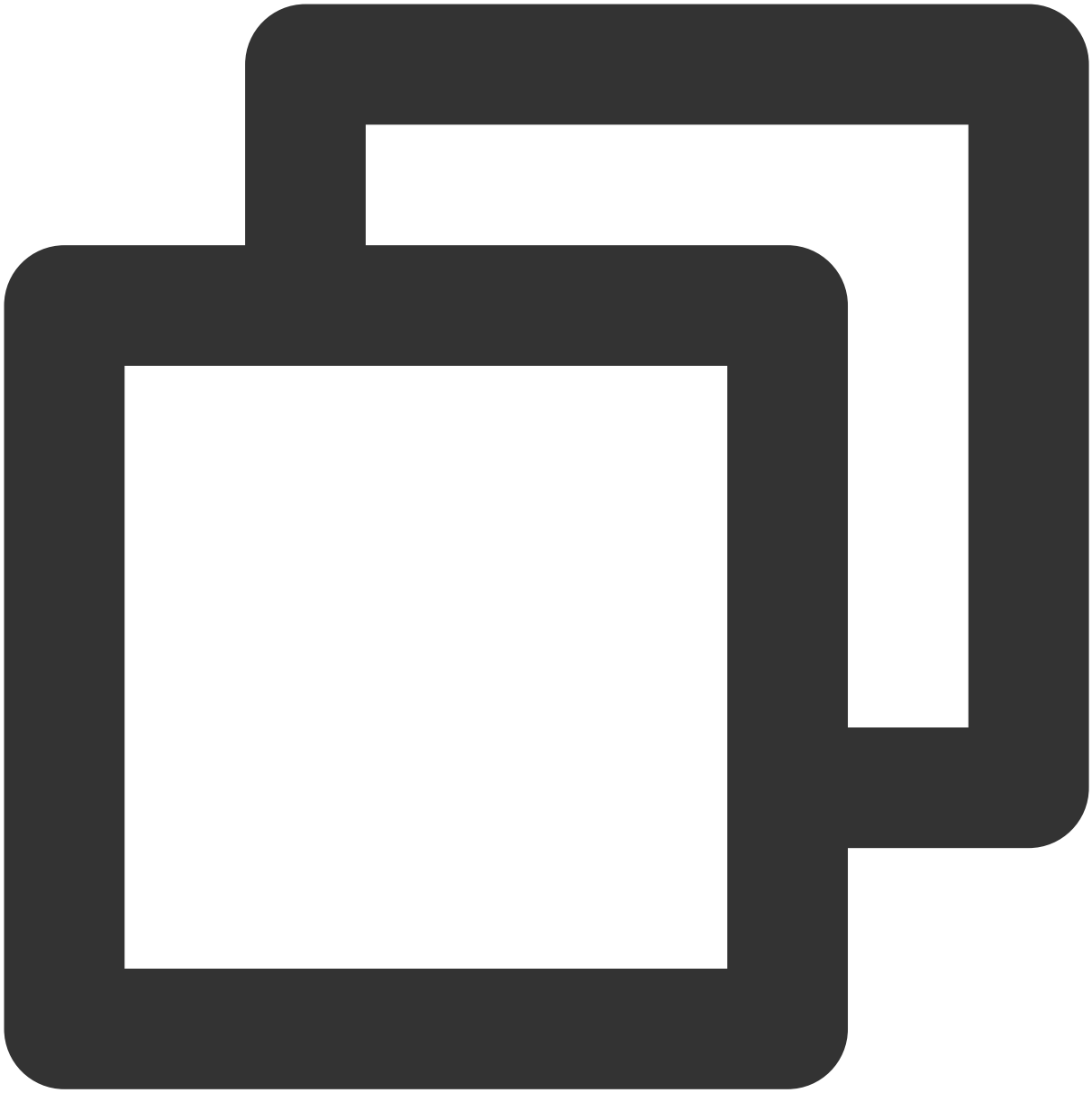
Calculating the Callback Signature

Note:

Callback authentication is not required. However, for security reasons, we recommend you authenticate callbacks on your business server.

LCIC provides a callback key to authenticate callback messages. Below is the signature algorithm:

©2013-2022 Tencent Cloud. All rights reserved.



```
Sign = md5(CallbackKey+ExpireTime)

Example:
CallbackKey = NjFGoDEy
ExpireTime = 1614151508
Sign = md5(NjFGoDEy1614151508) = b9454ab5a85f9b7ad36071f5688ed34d
```

`ExpireTime` is the signature expiration time. If the time specified by `ExpireTime` in a message notification has elapsed, the notification can be considered invalid. This can prevent network replay attacks. The format of this

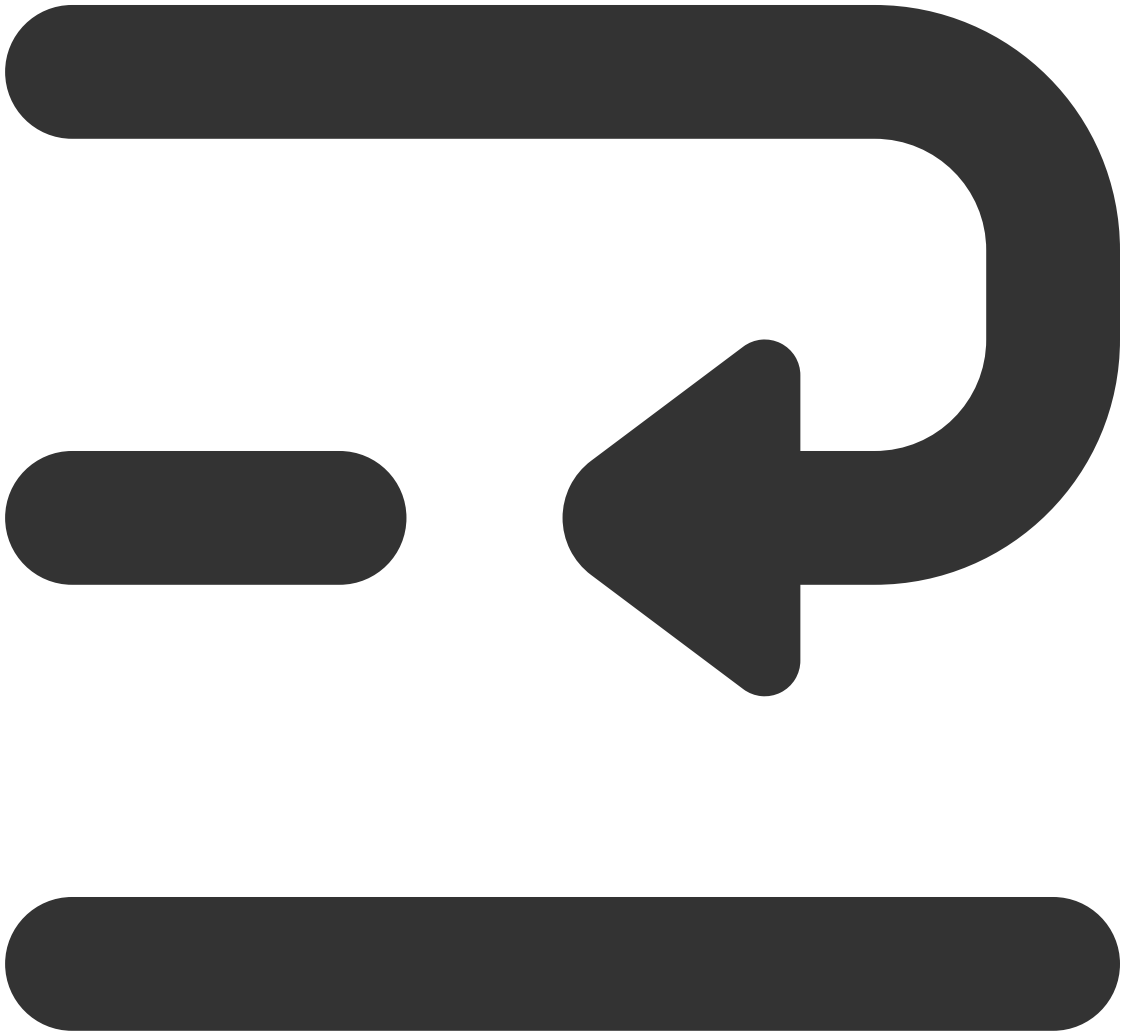
©2013-2022 Tencent Cloud. All rights reserved.

parameter is a decimal Unix timestamp, i.e., the number of seconds that have elapsed since 00:00 (UTC/GMT time) on January 1, 1970.

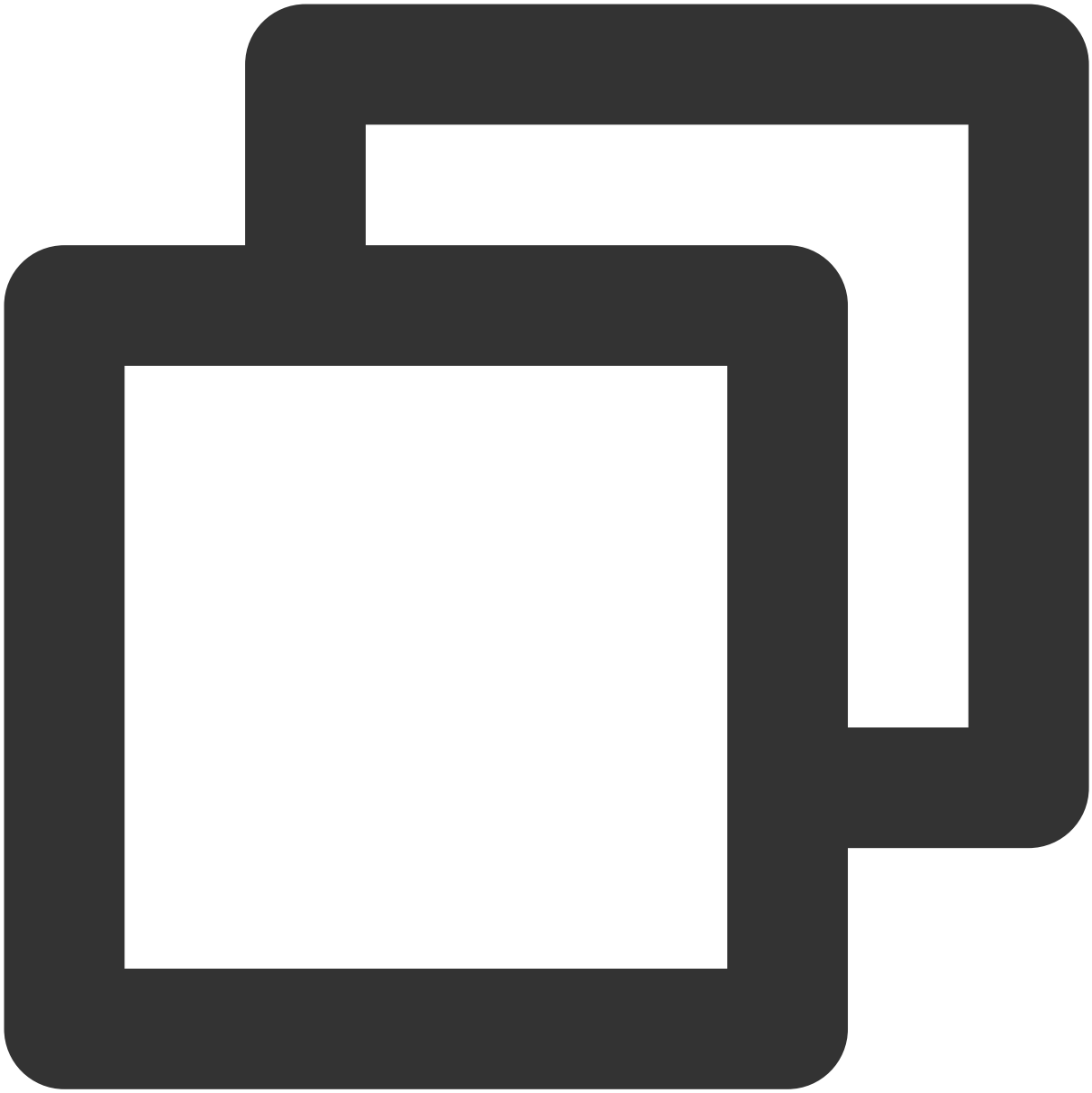
Go

Java

Python3



©2013-2022 Tencent Cloud. All rights reserved.



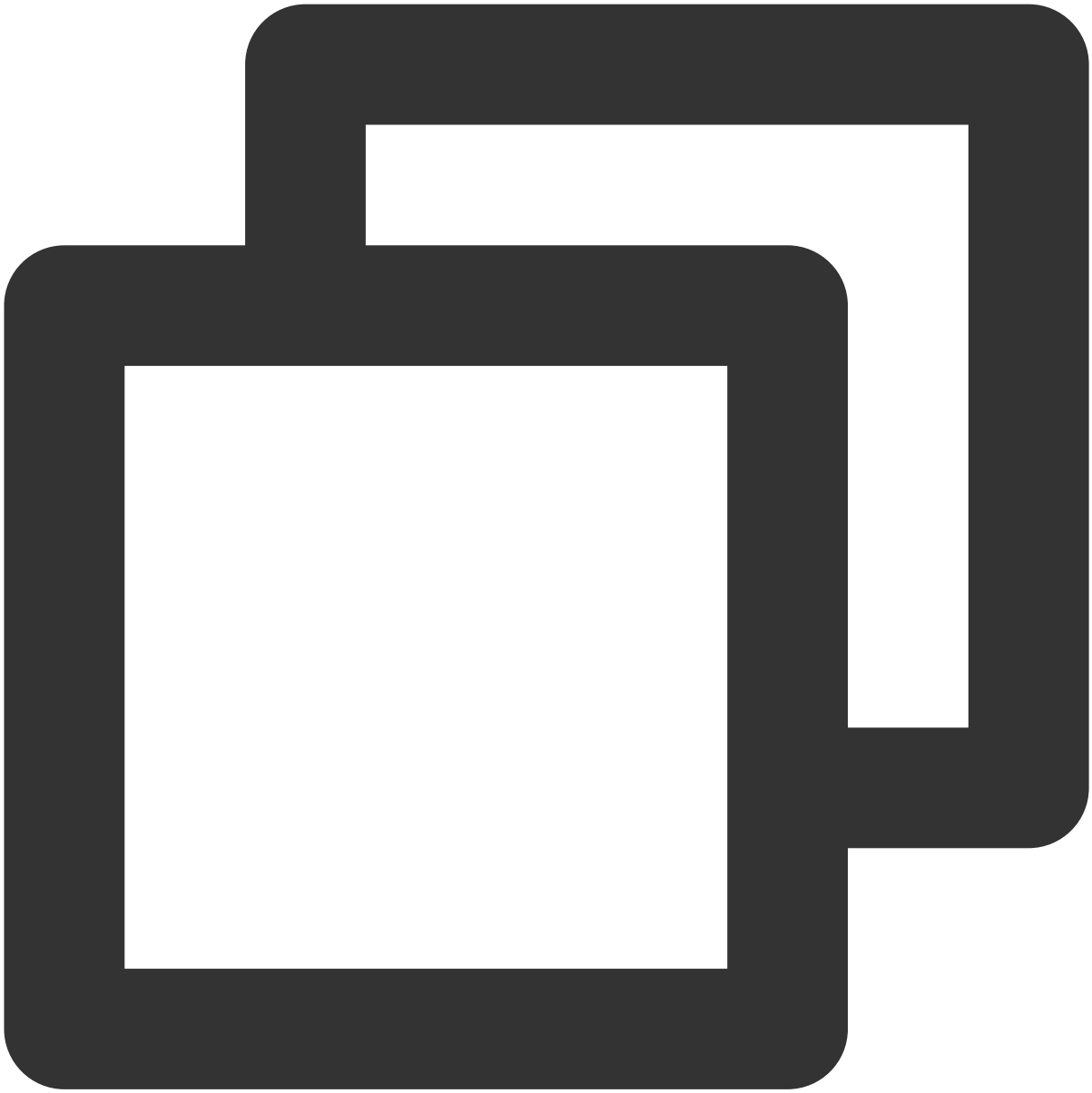
```
package main

import(
    "crypto/md5"
    "fmt"
)

func main(){
    callbackKey := "NjFGoDEy"
    expire := 1614151508
    sign := fmt.Sprintf("%x", md5.Sum([]byte(callbackKey+fmt.Sprintf("%d", expire))
```

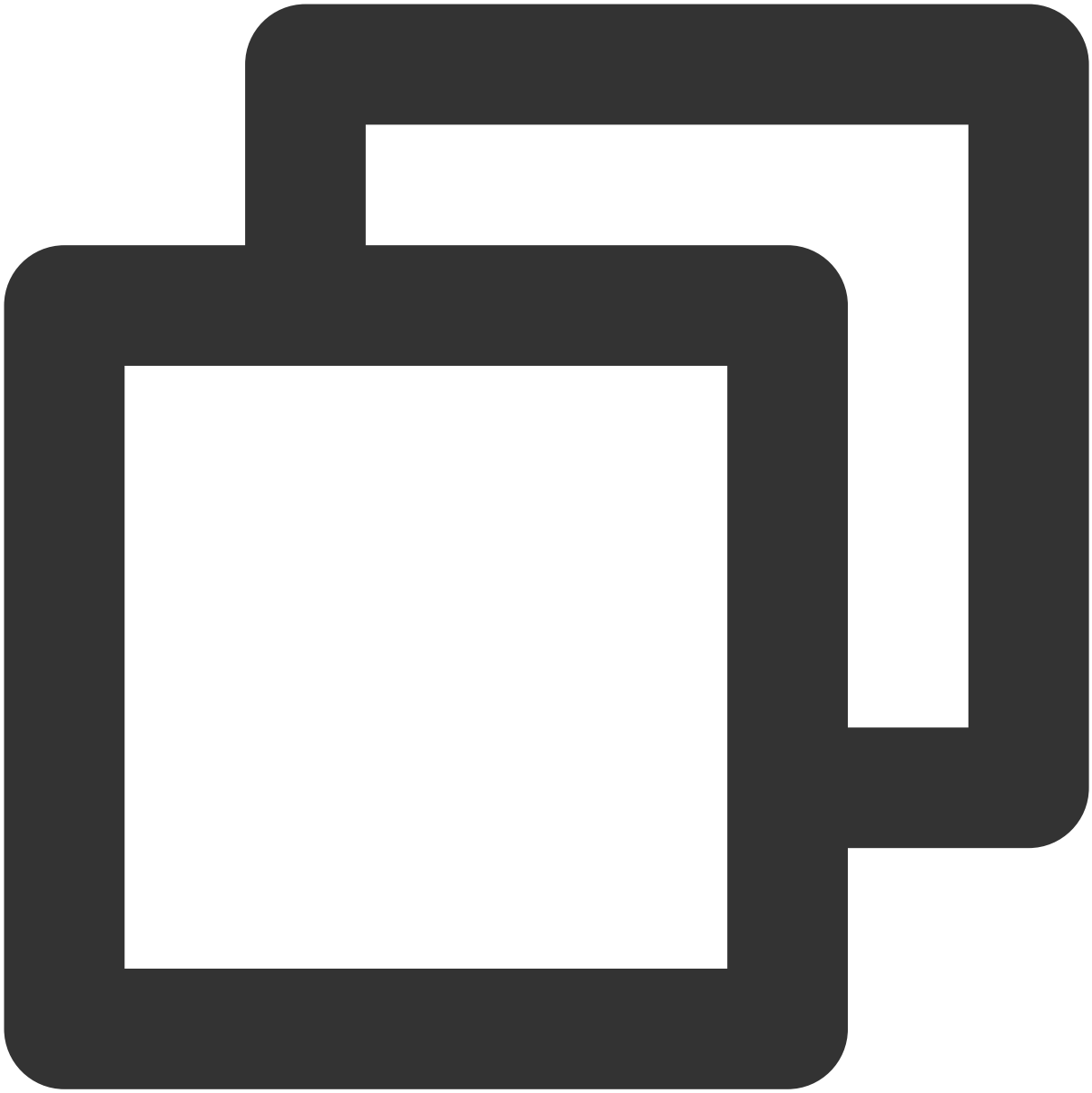
©2013-2022 Tencent Cloud. All rights reserved.

```
    fmt.Printf(fmt.Sprintf("sign:%s", sign))    // sign:b9454ab5a85f9b7ad36071f5688e
}
```



```
String md5Str = DigestUtils.md5DigestAsHex("NjFGoDEy1614151508".getBytes());
```

©2013-2022 Tencent Cloud. All rights reserved.



```
# Python 3 code to demonstrate the
# working of MD5 (string - hexadecimal)

import hashlib

# initializing string
str2hash = "NjFGoDEy1614151508"
result = hashlib.md5(str2hash.encode())

# printing the equivalent hexadecimal value.
print("sign:", end ="")
```

©2013-2022 Tencent Cloud. All rights reserved.

```
print(result.hexdigest())    #sign:b9454ab5a85f9b7ad36071f5688ed34d
```

The callback request you receive will include the `ExpireTime` parameter and the `Sign` parameter, which you can use together with the callback key to determine whether the request is legitimate.

Callback Protocol

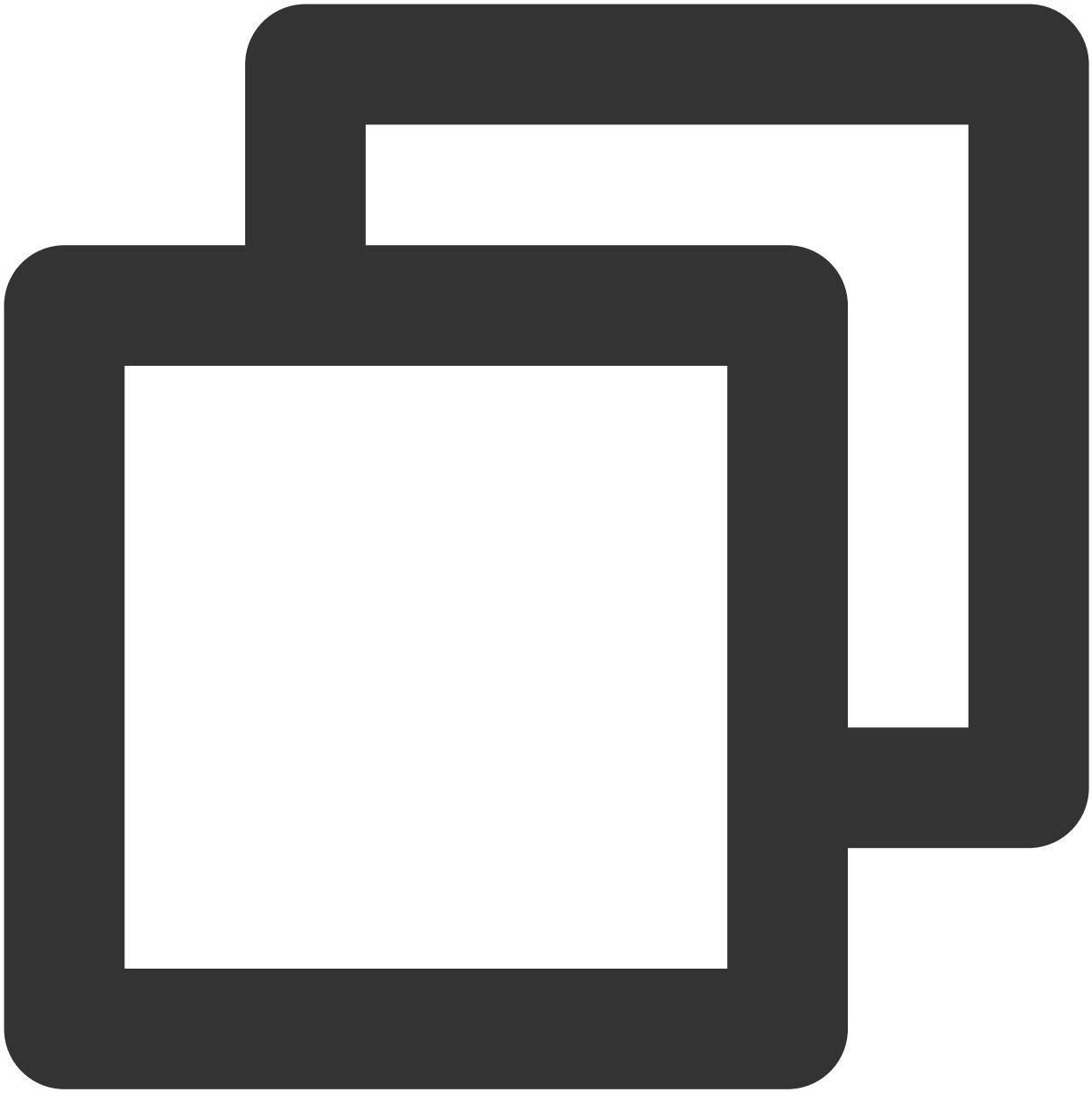
We will send an HTTP POST request to the callback URL you configured. The request body is in JSON format:

Parameter	Type	Description
Timestamp	Integer	The Unix timestamp (seconds) when the event occurred.
ExpireTime	Integer	The Unix timestamp (seconds) when the signature expires. If the current time is later than the expiration time, the request can be considered invalid.
Sign	String	The callback signature. You can use the method described above to determine whether the signature is correct and consequently whether the request is legitimate.
SdkAppId	Integer	The application the event belongs to.
EventType	String	See the descriptions of different callback types.
EventData	JSON	See the descriptions of different callback types.

Callback request example

Callback response example

©2013-2022 Tencent Cloud. All rights reserved.

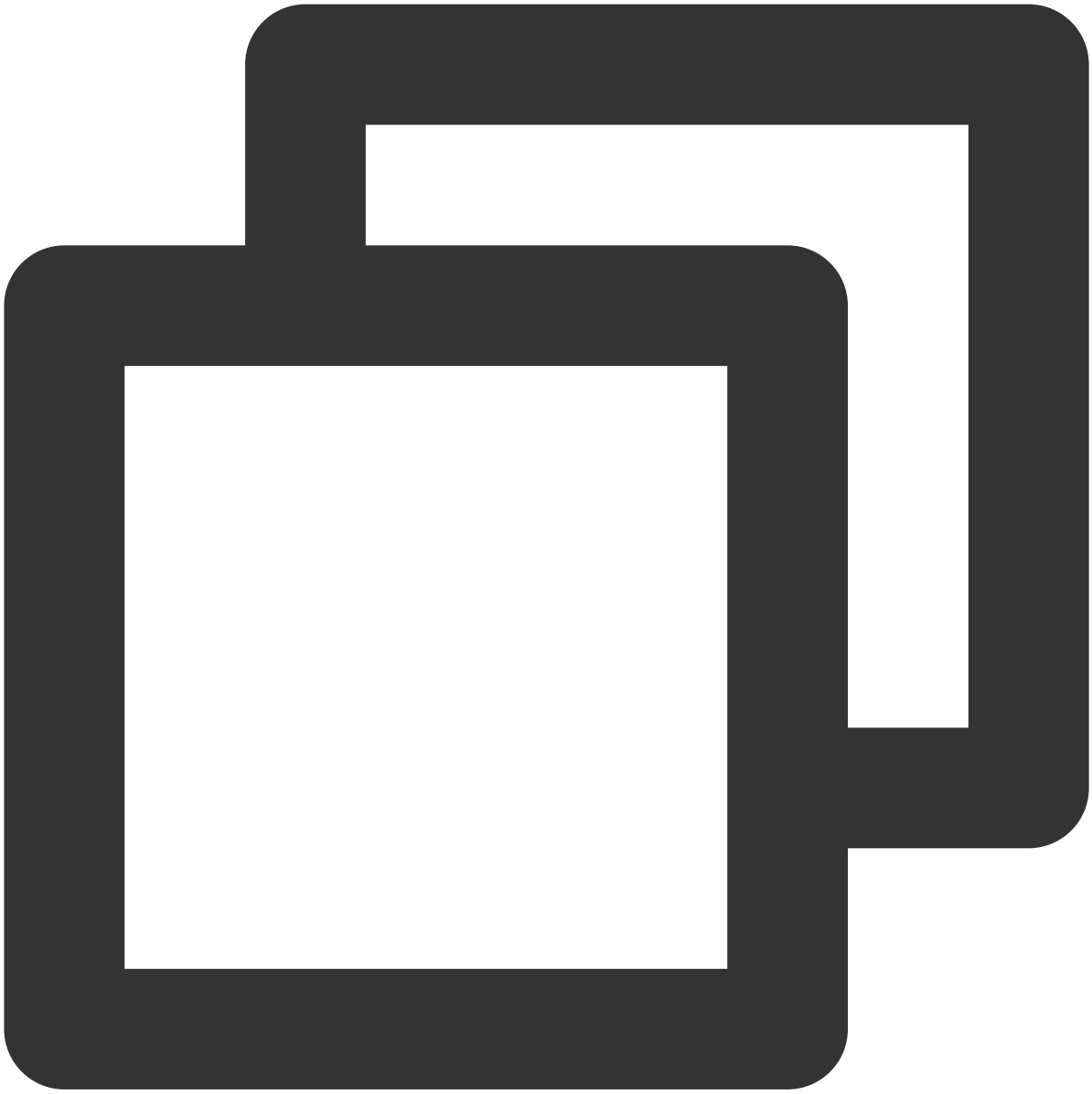


```
POST xxxxxxxxxxxxxx(user-callback-url)
Content-Type: application/json; charset=utf-8
Accept: application/json

{
    "Timestamp":1679279232,
    "ExpireTime":1679279832,
    "Sign":"fbfd23733e6262f49e402247024fbc29",   // See "Calculating the Callback S
    "SdkAppId":3520371,
    "EventType":"RoomStart",
    "EventData":{
```

©2013-2022 Tencent Cloud. All rights reserved.

```
        "RoomId":366317280
    }
}
```



```
Response: HTTP STATUS CODE = 200. You need to add `JSON: {"error_code":0}` to the r


HTTP STATUS CODE 200 OK

HTTP BODY:
{
```

©2013-2022 Tencent Cloud. All rights reserved.

```
    "error_code":0
}
```

Event List

Room start event

Event type

RoomStart

Description

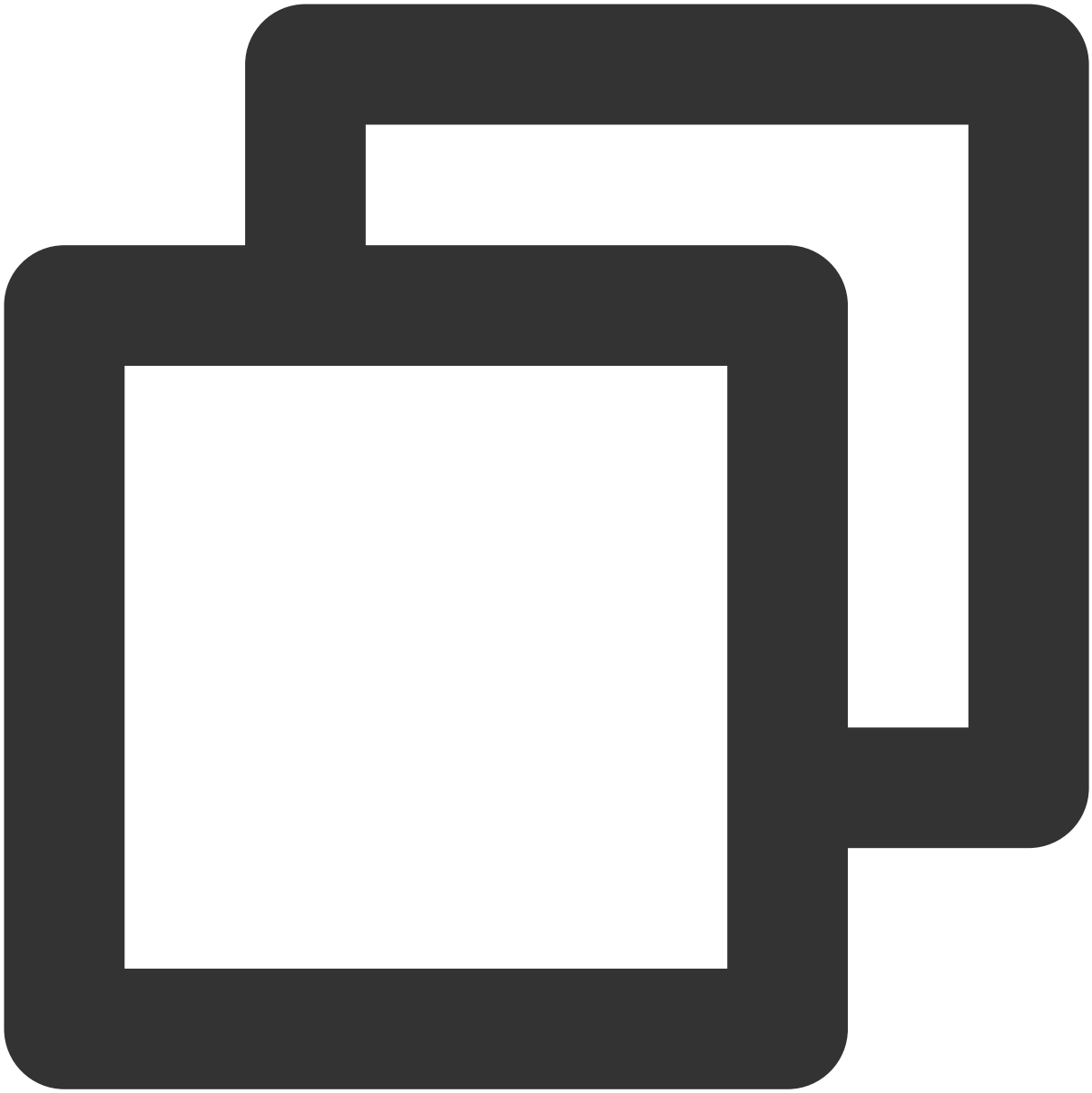
This callback is sent when a room starts.

Fields

Field	Type	Description
RoomId	Integer	The room ID.

Example

©2013-2022 Tencent Cloud. All rights reserved.



```
{
    "Timestamp":1679279232,
    "ExpireTime":1679279832,
    "Sign":"fbfd23733e6262f49e402247024fbc29",
    "SdkAppId":3520371,
    "EventType":"RoomStart",
    "EventData":{
        "RoomId":366317280
    }
}
```

©2013-2022 Tencent Cloud. All rights reserved.

Room end event

Event type

RoomEnd

Description

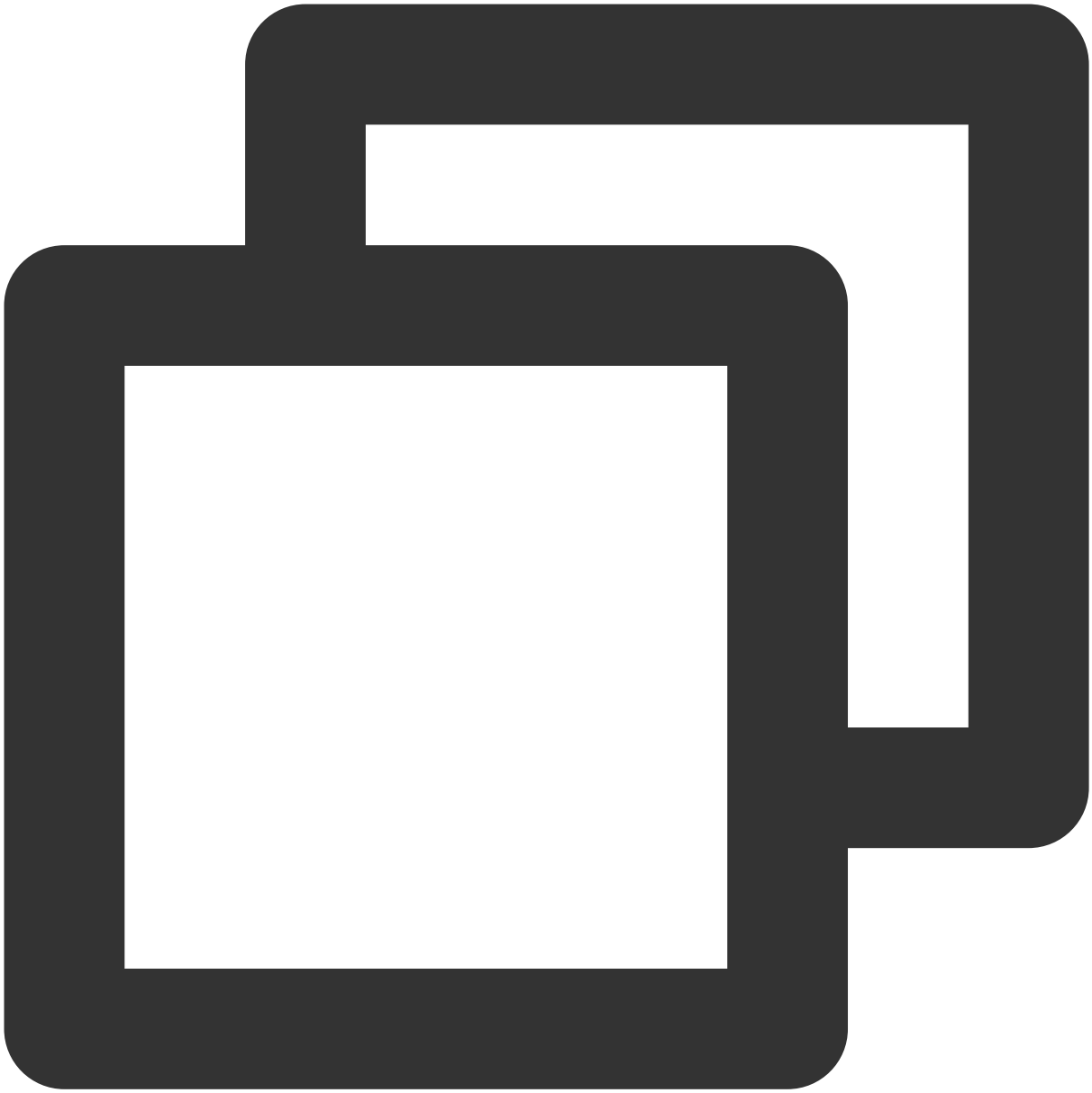
This callback is sent when a room ends.

Fields

Field	Type	Description
RoomId	Integer	The room ID.

Example

©2013-2022 Tencent Cloud. All rights reserved.



```
{
    "Timestamp":1679279195,
    "ExpireTime":1679279795,
    "Sign":"696560af8fec9374b4cd58c6318c6448",
    "SdkAppId":3520371,
    "EventType":"RoomEnd",
    "EventData":{
        "RoomId":311601250
    }
}
```

©2013-2022 Tencent Cloud. All rights reserved.

Room expiration event

Event type

RoomExpire

Description

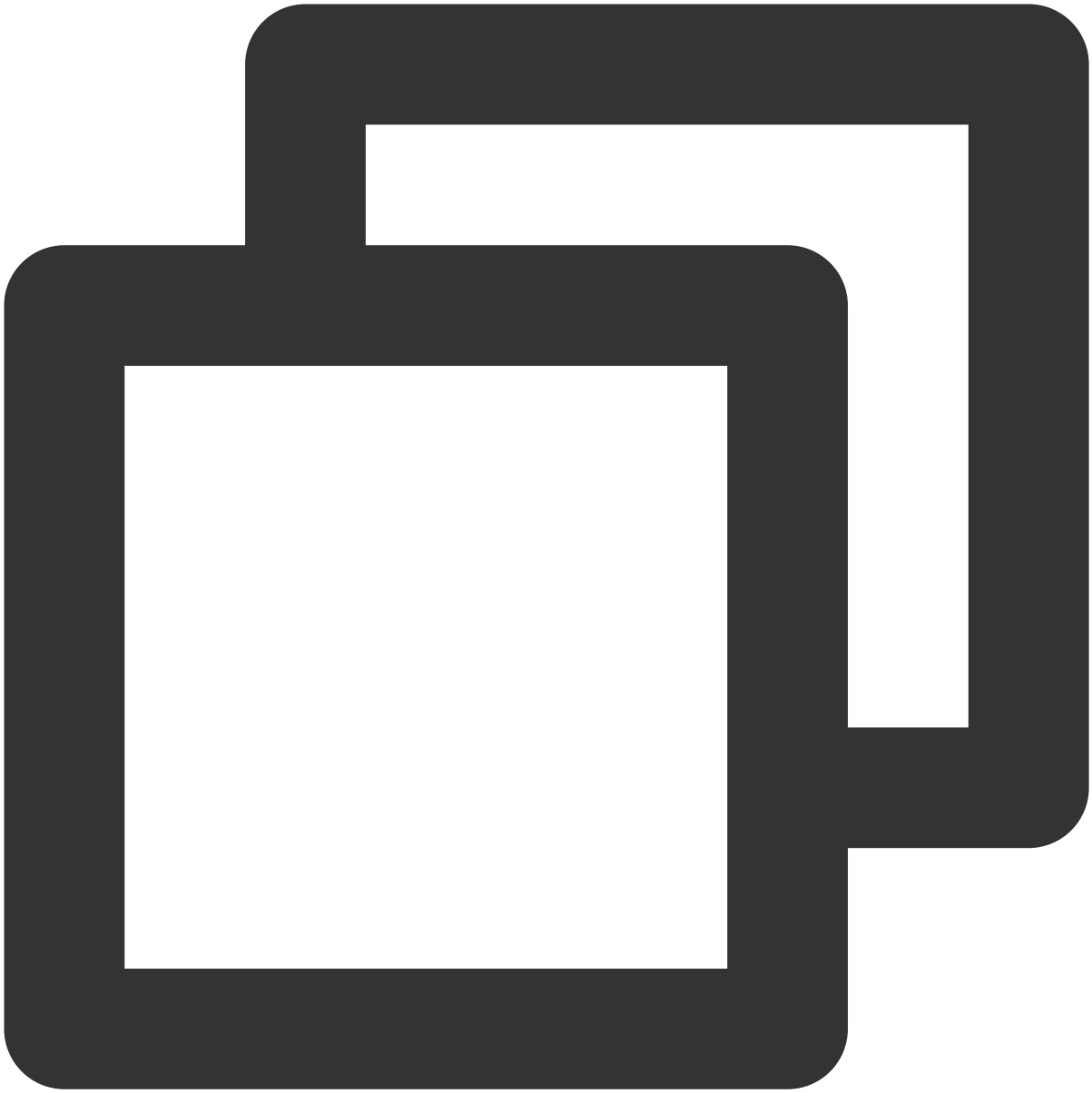
This callback is sent when a room expires.

Fields

Field	Type	Description
RoomId	Integer	The room ID.

Example

©2013-2022 Tencent Cloud. All rights reserved.



```
{
    "Timestamp":1679282220,
    "ExpireTime":1679282820,
    "Sign":"07e504e36a3738cf17a47f47b37c0d3c",
    "SdkAppId":3520371,
    "EventType":"RoomExpire",
    "EventData":{
        "RoomId":310096990
    }
}
```

©2013-2022 Tencent Cloud. All rights reserved.

Recording completion event

Event type

RecordFinish

Description

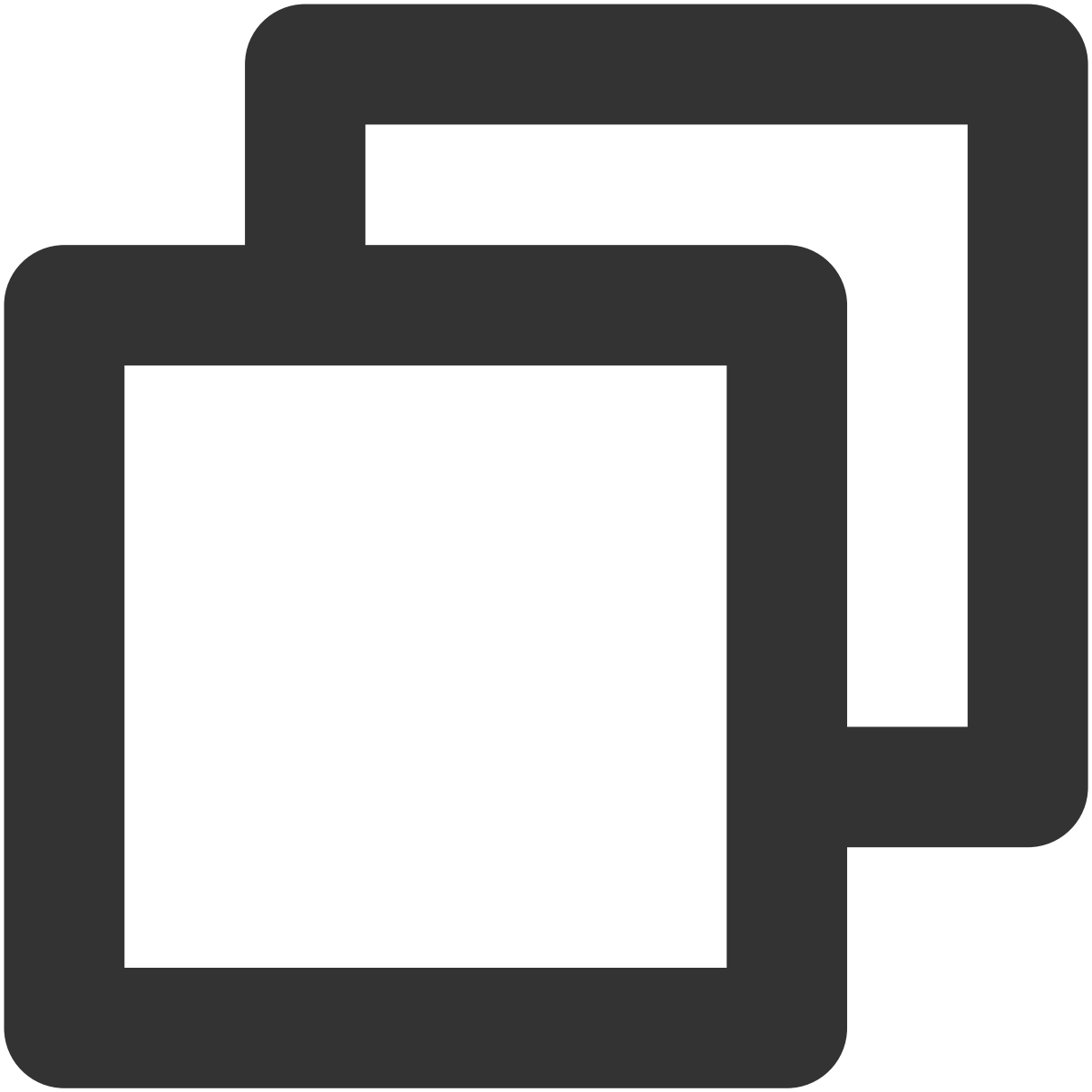
This callback is sent when the system finishes recording a class and generates a playback URL.

Fields

Field	Type	Description
RoomId	Integer	The room ID.
Duration	Integer	The recording duration (seconds).
RecordUrl	String	The recording URL (HTTPS).
RecordSize	Integer	The recording file size (bits).

Example

©2013-2022 Tencent Cloud. All rights reserved.




```
{
    "Timestamp":1679279203,
    "ExpireTime":1679279803,
    "Sign":"7ada1f46f27ce6f1cdeb22339d71e094",
    "SdkAppId":3520371,
    "EventType":"RecordFinish",
    "EventData":{
        "Duration":63,
        "RecordSize":698472,
        "RecordUrl":"https://xxxxxxx.vod2.myqcloud.com/xxxx/xxxxxxx/f0.mp4",
        "RoomId":311601250
```


©2013-2022 Tencent Cloud. All rights reserved.

```
        }
    }
```

Member entry event

Event type

MemberJoin

Description

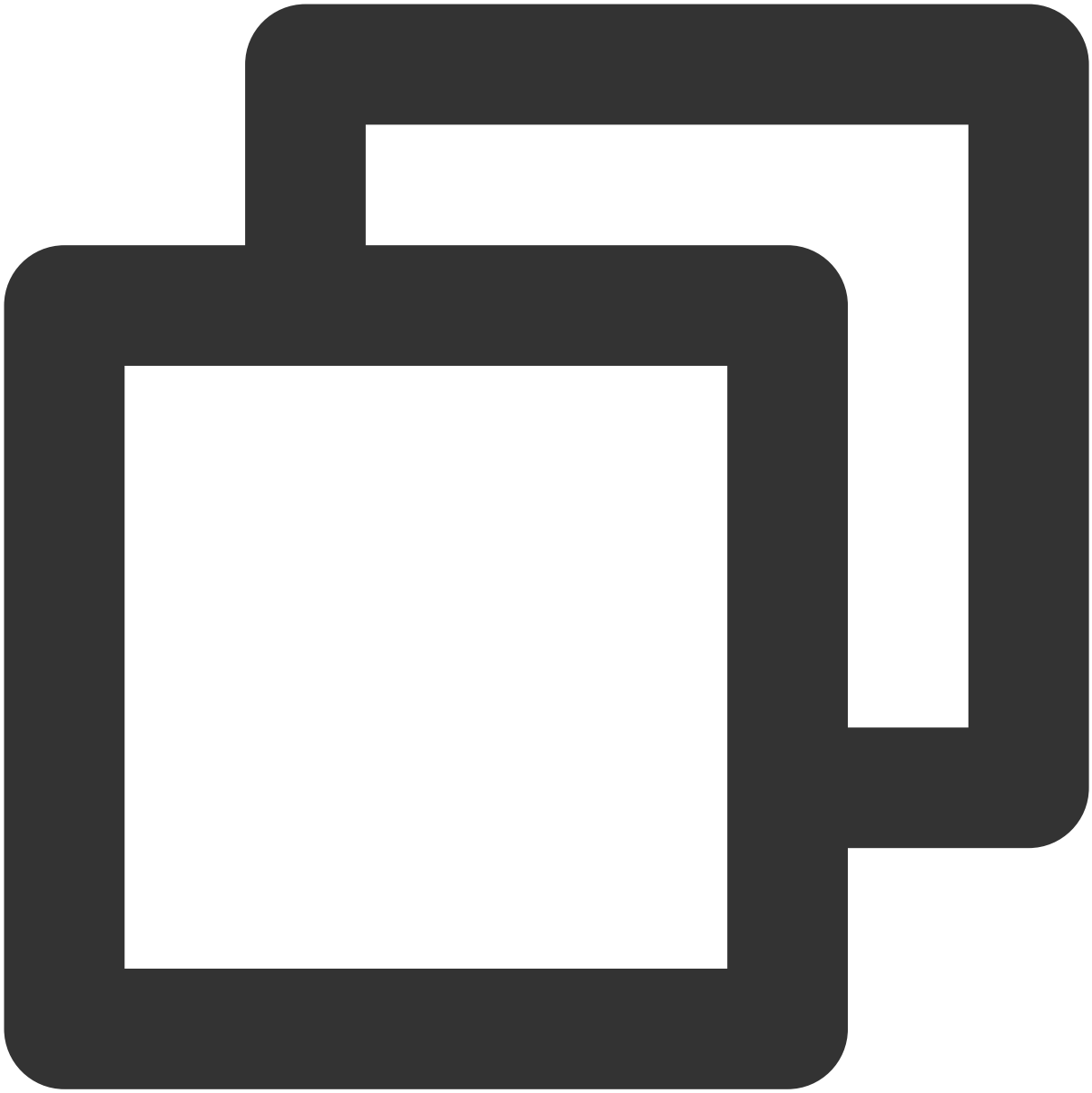
This callback is sent when a user enters the room.

Fields

Field	Type	Description
RoomId	Integer	The room ID.
UserId	String	The user ID.

Example

©2013-2022 Tencent Cloud. All rights reserved.



```
{
    "Timestamp":1679279225,
    "ExpireTime":1679279825,
    "Sign":"6fcaf48026fe95d76d1615c44ea98ede",
    "SdkAppId":3520371,
    "EventType":"MemberJoin",
    "EventData":{
        "RoomId":366317280,
        "UserId":"2Lzh8d3Rw7zOlpEnNgHPe6HDiDn"
    }
}
```

©2013-2022 Tencent Cloud. All rights reserved.

Member exit event

Event type

MemberQuit

Description

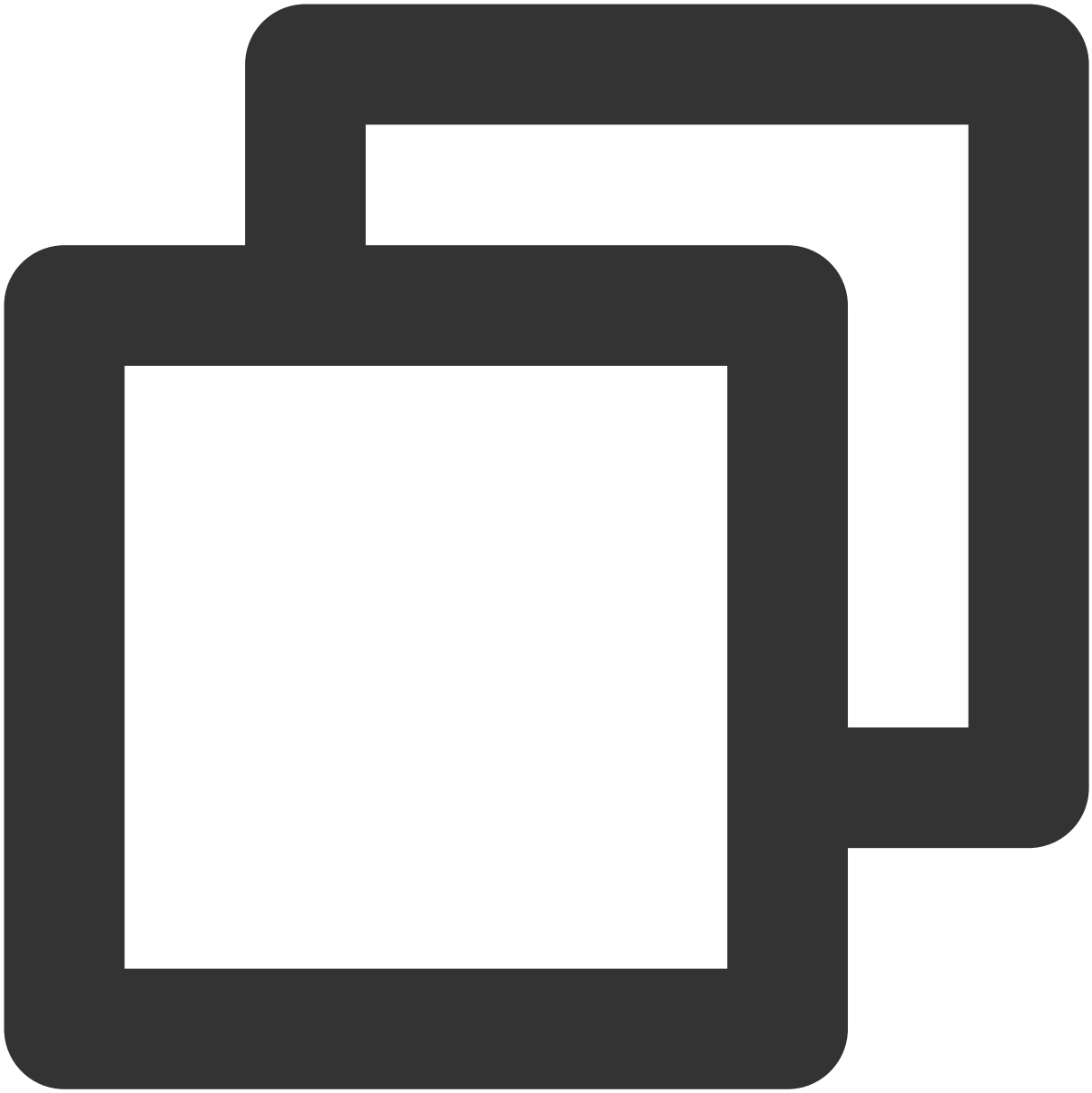
This callback is sent when a user leaves the room.

Fields

Field	Type	Description
RoomId	Integer	The room ID.
UserId	String	The user ID.

Example

©2013-2022 Tencent Cloud. All rights reserved.



```
{
    "Timestamp":1679279260,
    "ExpireTime":1679279860,
    "Sign":"03d41254d4ba7a05e13299a4841c3d99",
    "SdkAppId":3520371,
    "EventType":"MemberQuit",
    "EventData":{
        "RoomId":397322814,
        "UserId":"2NG5xjpnYLGo3bq1taJbItY1TPf"
    }
}
```

©2013-2022 Tencent Cloud. All rights reserved.

Document transcoding completion event

Event type

DocumentTranscodeFinish

Description

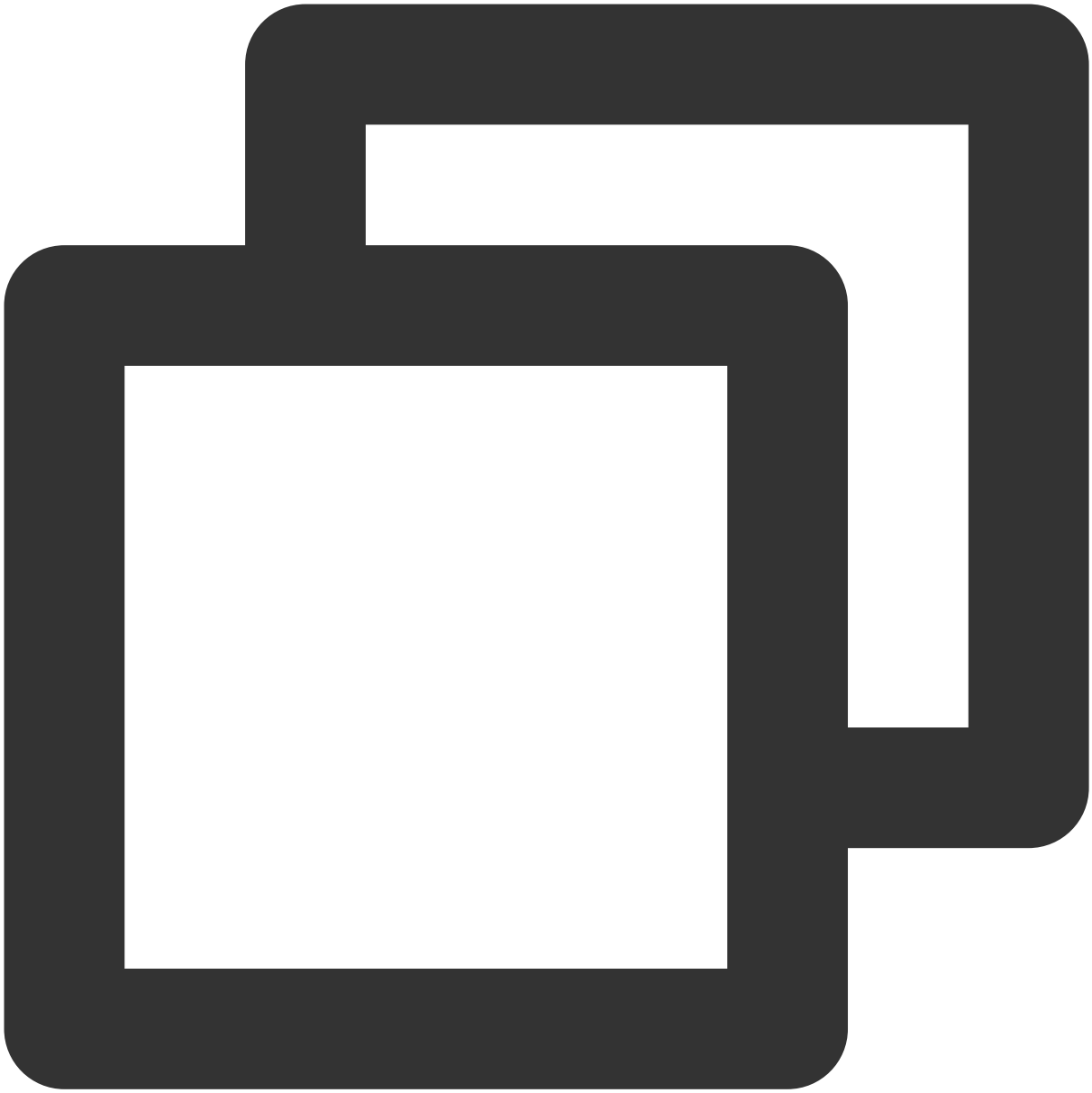
This callback is sent when the transcoding of a courseware file is completed (succeeds or fails).

Fields

Field	Type	Description
DocumentId	String	The document ID.
State	Integer	The document status.
Result	String	The transcoding result. If the transcoding succeeded, this parameter is the URL of the transcoding output; if the transcoding failed, this parameter is the error code.
Info	String	The transcoding information.
Thumbnail	String	The thumbnail URL. A PowerPoint file usually has multiple thumbnails. The URL of the first thumbnail is `thumbnail_url/1.jpg`.

Example

©2013-2022 Tencent Cloud. All rights reserved.




```
{
    "Timestamp":1679281156,
    "ExpireTime":1679281756,
    "Sign":"1597c5c8aaafb623ece9d1690dc0e780",
    "SdkAppId":3520371,
    "EventType":"DocumentTranscodeFinish",
    "EventData":{
        "DocumentId":"sixkzoak",
        "Info":"",
        "Result":"https://xxx.cos.ap-shanghai.myqcloud.com/doc/xxxxxx/picture/",
        "State":3,
```


©2013-2022 Tencent Cloud. All rights reserved.

```
        "Thumbnail":"https://xxxxx.cos.ap-shanghai.myqcloud.com/doc/xxxxx/thumbnail
    }
}
```

Document creation event

Event type

DocumentCreate

Description

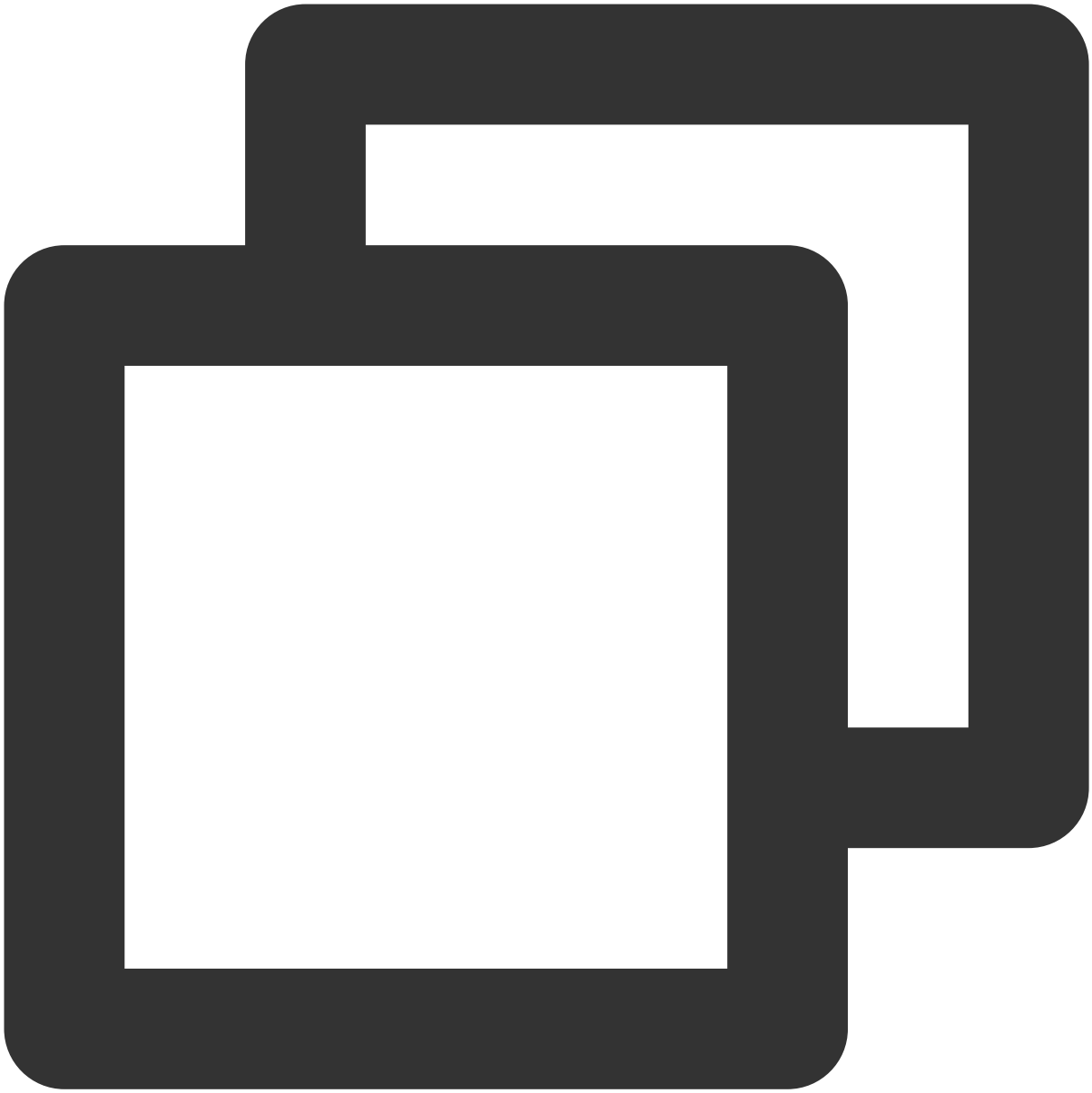
This callback is sent when a document is successfully created.

Fields

Field	Type	Description
DocId	String	The document ID.
DocName	String	The document name.
Owner	String	The user ID of the document's owner.
DocSize	Integer	The file size (bytes).
DocUrl	String	The document URL.
Permission	Integer	The document access: `0` : Private; `1` : Public.

Example

©2013-2022 Tencent Cloud. All rights reserved.




```
{
    "Timestamp":1679281150,
    "ExpireTime":1679281750,
    "Sign":"44f0a2e422ede67100a1f419df3ef51c",
    "SdkAppId":3520371,
    "EventType":"DocumentCreate",
    "EventData":{
        "DocId":"sixkzoak",
        "DocName":"test.pdf",
        "DocSize":4162606,
        "DocUrl":"https://xxxx.cos.ap-shanghai.myqcloud.com/uploads/xxxxx/xxxxxx/xx
```


©2013-2022 Tencent Cloud. All rights reserved.

```
        "Owner":"2Lzh8d3Rw7zOlpEnNgHPe6HDiDn",
        "Permission":0
    }
}
```

Document deletion event

Event type

DocumentDelete

Description

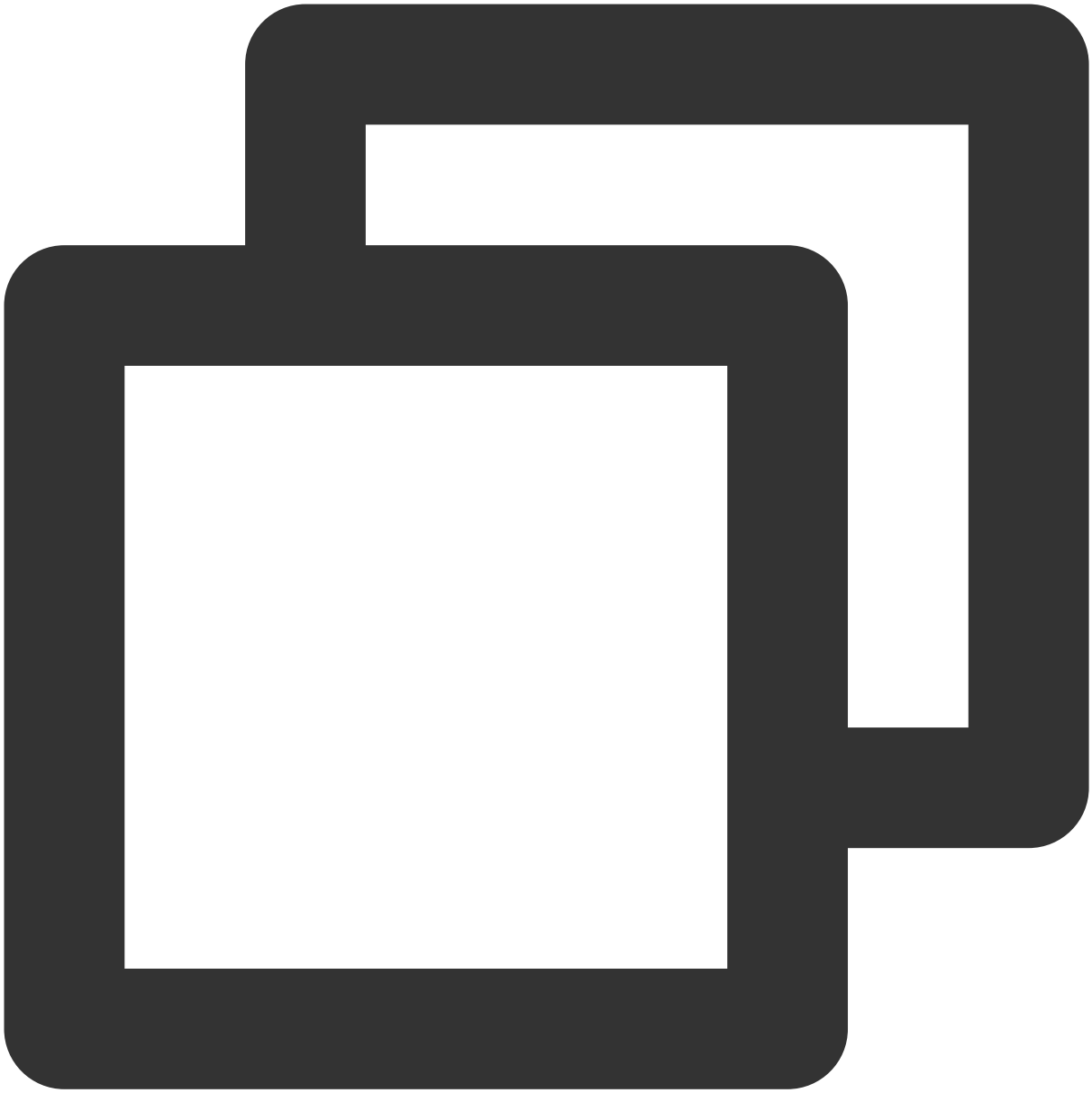
This callback is sent when a document is successfully deleted.

Fields

Field	Type	Description
DocId	String	The document ID.

Example

©2013-2022 Tencent Cloud. All rights reserved.



```
{
    "Timestamp":1679281184,
    "ExpireTime":1679281784,
    "Sign":"964ff6d9463280d6a3bd4f7416213be9",
    "SdkAppId":3520371,
    "EventType":"DocumentDelete",
    "EventData":{
        "DocId":"sixkzoak"
    }
}
```

©2013-2022 Tencent Cloud. All rights reserved.

Custom event

Event type

TaskUpdate

Description

This callback is sent when JSAPI updateTask is called in the custom UI with the parameter `enableCallback = true` .

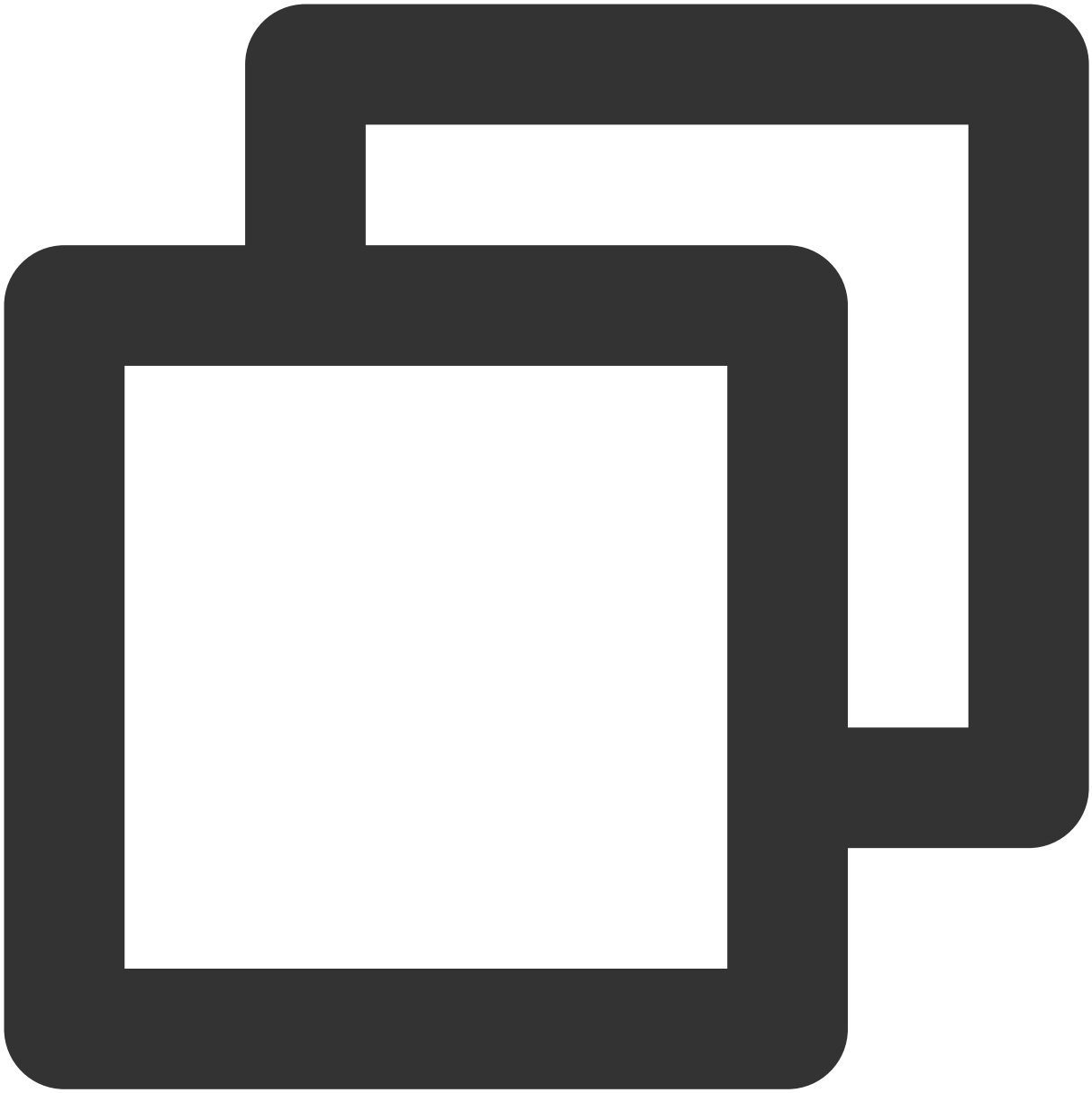
Fields

Field	Type	Description
RoomId	String	The room ID.
TaskId	String	task ID（`taskId` in updateTask，which can be modified）
CustomData	String	CustomData（`content` in updateTask）

Example

JS Example Code

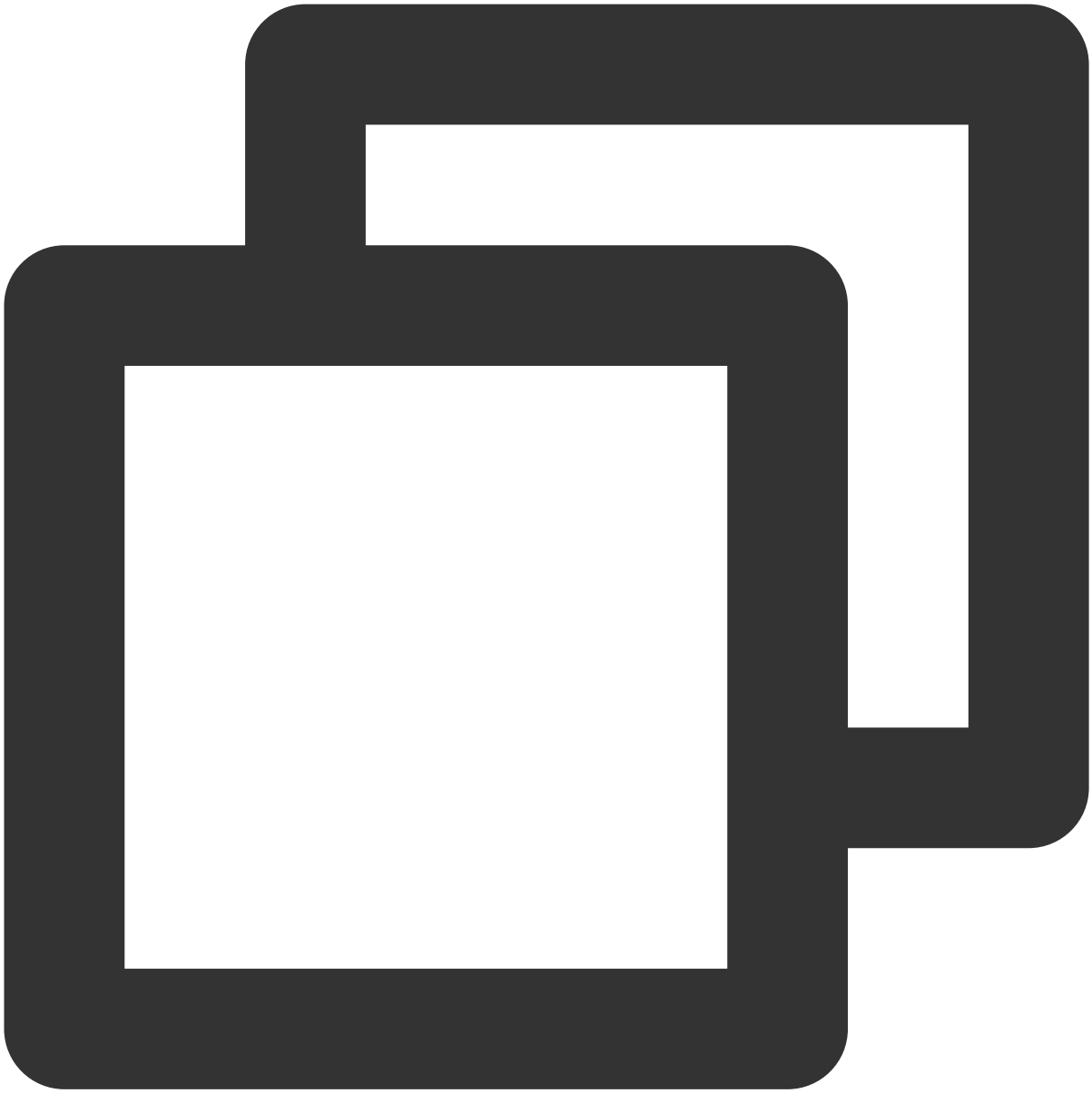
©2013-2022 Tencent Cloud. All rights reserved.



```
{
    "Timestamp": 1679281184,
    "ExpireTime": 1679281784,
    "Sign": "964ff6d9463280d6a3bd4f7416213be9",
    "SdkAppId": 3520371,
    "EventType": "TaskUpdate",
    "EventData": {
        "RoomId": "397322814",
        "TaskId": "your-task-id",
        "CustomData": "{\\"key1\\":\\"value1\\",\\"key2\\":\\"value2\\"}"
    }
```

©2013-2022 Tencent Cloud. All rights reserved.

```
}
```



```
TCIC.SDK.instance.updateTask(
  'your-task-id', // taskId
  JSON.stringify({ key1: 'value1', key2: 'value2' }), // content
  -1, // duration
  false, // createOnly
  '', // bindingUser
  true, // enableCallback
);
```

©2013-2022 Tencent Cloud. All rights reserved.

©2013-2022 Tencent Cloud. All rights reserved.