

Low-code Interactive Classroom Service Callbacks Product Documentation





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Service Callbacks

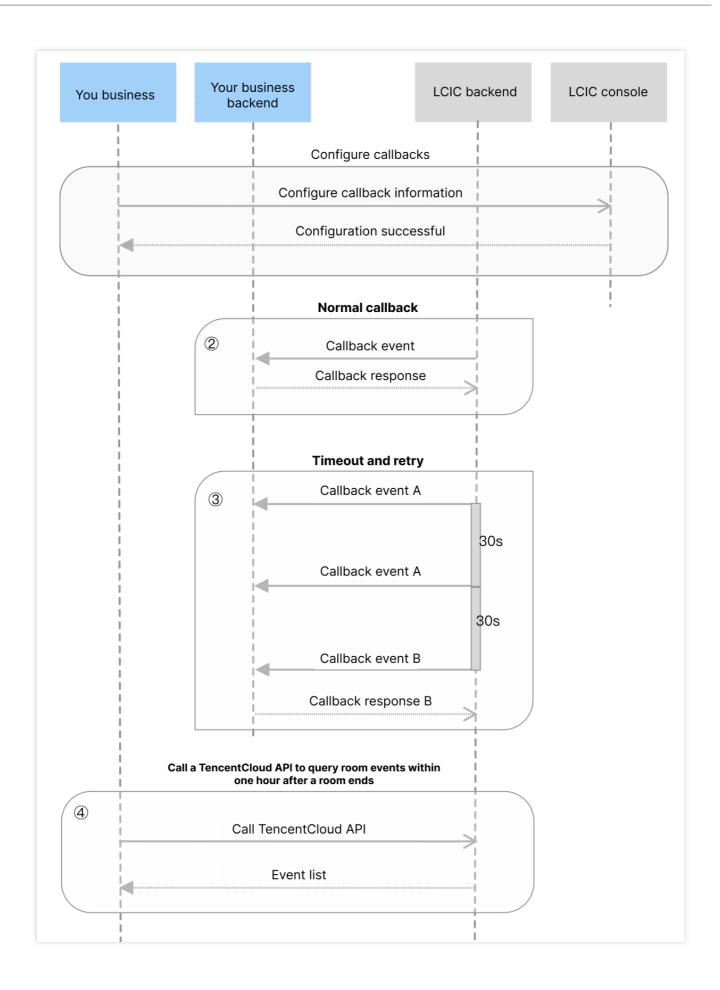
Last updated: 2023-09-05 18:14:00

Overview

Note:

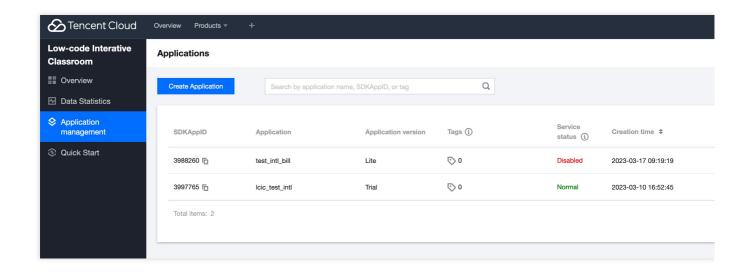
LCIC can send you callbacks to notify you of different events in your business. They allow you to collect statistics before, during, and after classes.

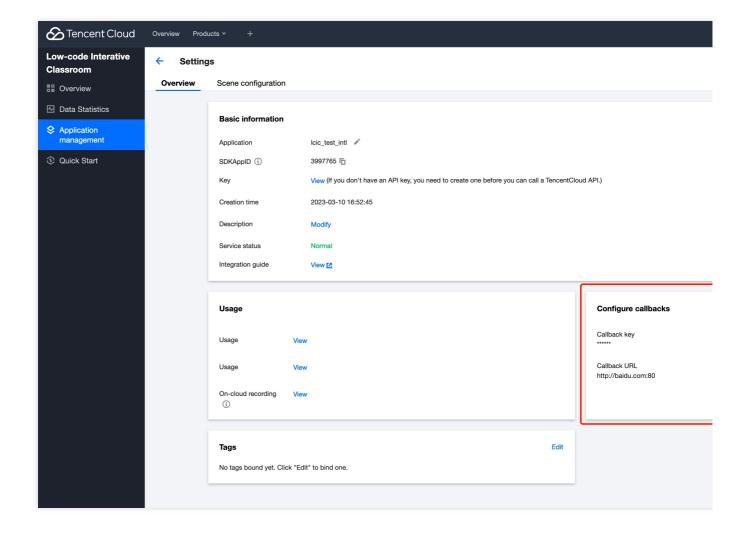






1. Configure a callback URL: Go to the LCIC console and select Application Management on the left sidebar. Click **Settings**, and configure a callback URL in the **Configure callbacks** area.







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

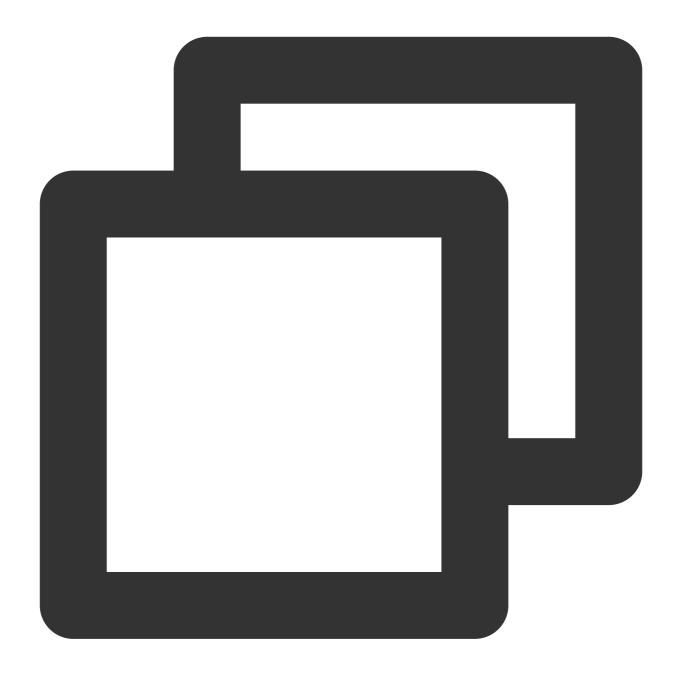
Calculating the Callback Signature

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:





```
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

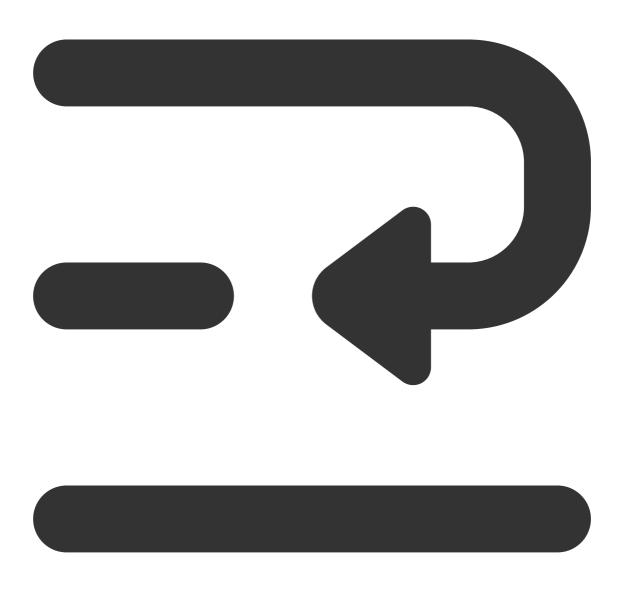


parameter is a decimal Unix timestamp, i.e., the number of seconds that have elapsed since 00:00 (UTC/GMT time) on January 1, 1970.

Go

Java

Python3





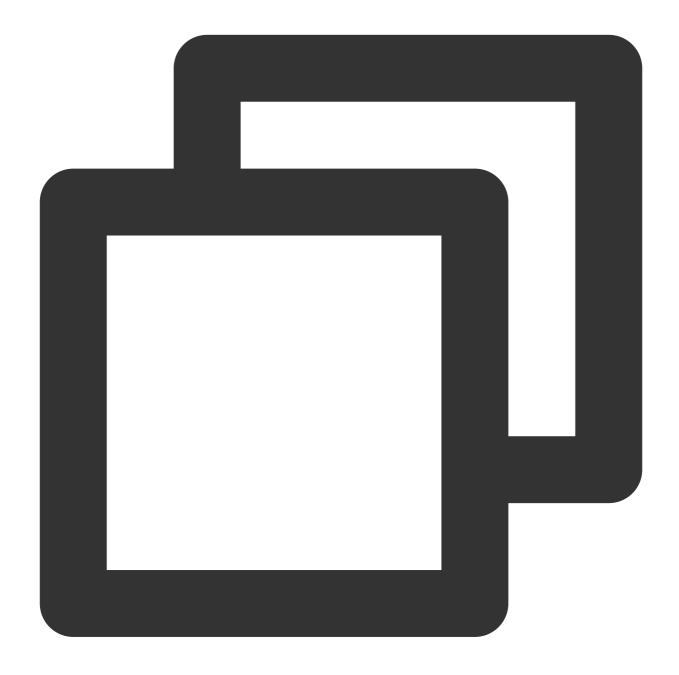


```
package main

import(
    "crypto/md5"
    "fmt"
)

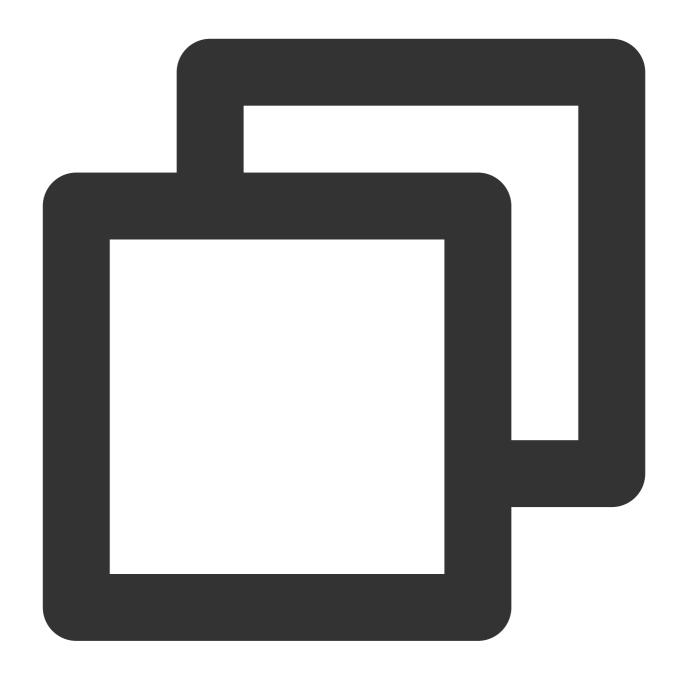
func main(){
    callbackKey := "NjFGoDEy"
    expire := 1614151508
    sign := fmt.Sprintf("%x", md5.Sum([]byte(callbackKey+fmt.Sprintf("%d", expire))
```





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





```
# 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 ="")
```



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

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

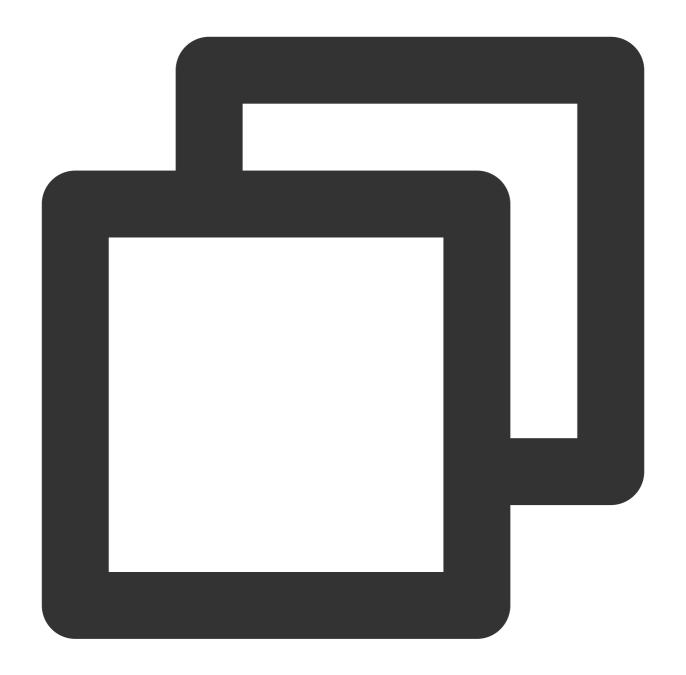
Callback Protocol

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

Parameter	Туре	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.
SdkAppld	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





```
POST xxxxxxxxxxxxxxxx(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":{
```



```
"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:
{
```



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

Event List

Room start event

Event type

RoomStart

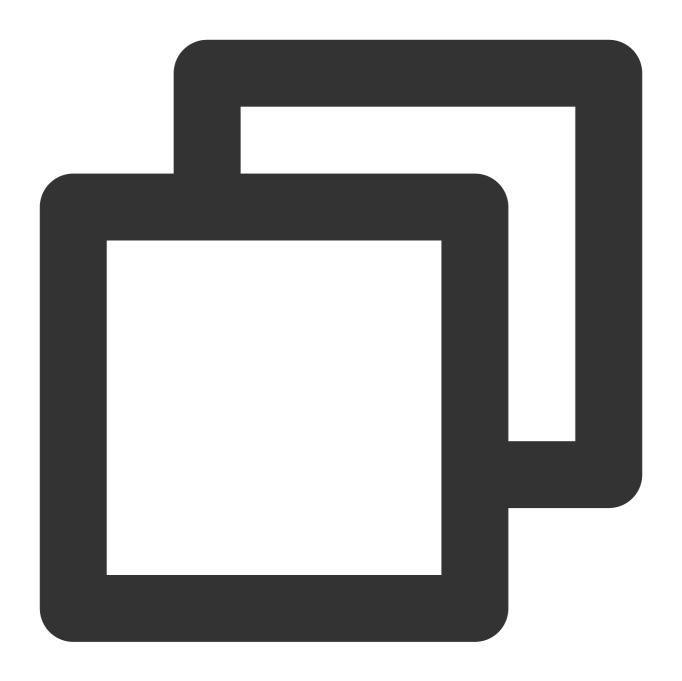
Description

This callback is sent when a room starts.

Fields

Field	Туре	Description
Roomld	Integer	The room ID.







Room end event

Event type

RoomEnd

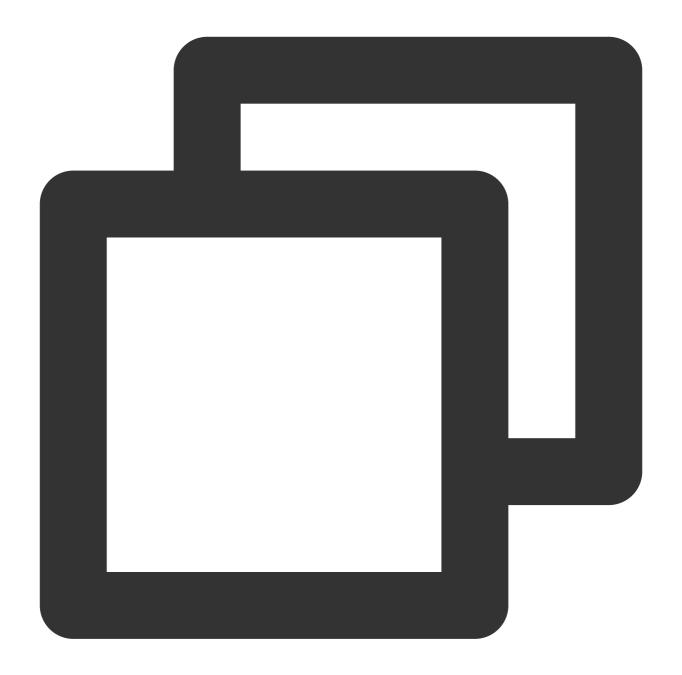
Description

This callback is sent when a room ends.

Fields

Field	Туре	Description
Roomld	Integer	The room ID.







Room expiration event

Event type

RoomExpire

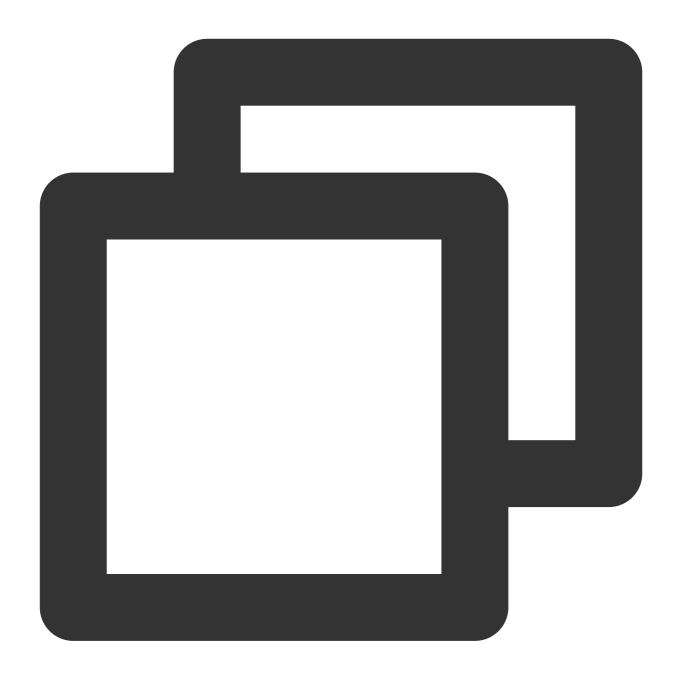
Description

This callback is sent when a room expires.

Fields

Field	Туре	Description
Roomld	Integer	The room ID.







Recording completion event

Event type

RecordFinish

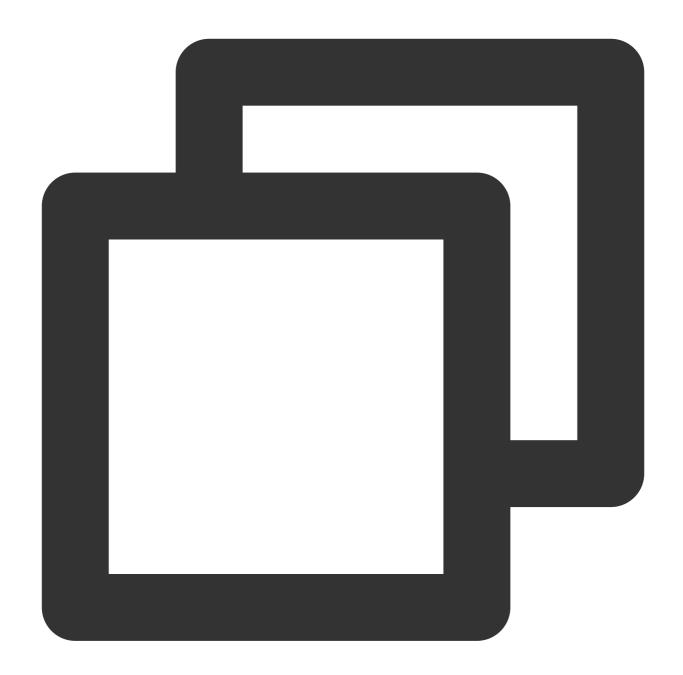
Description

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

Fields

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





```
"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
```



}
}

Member entry event

Event type

MemberJoin

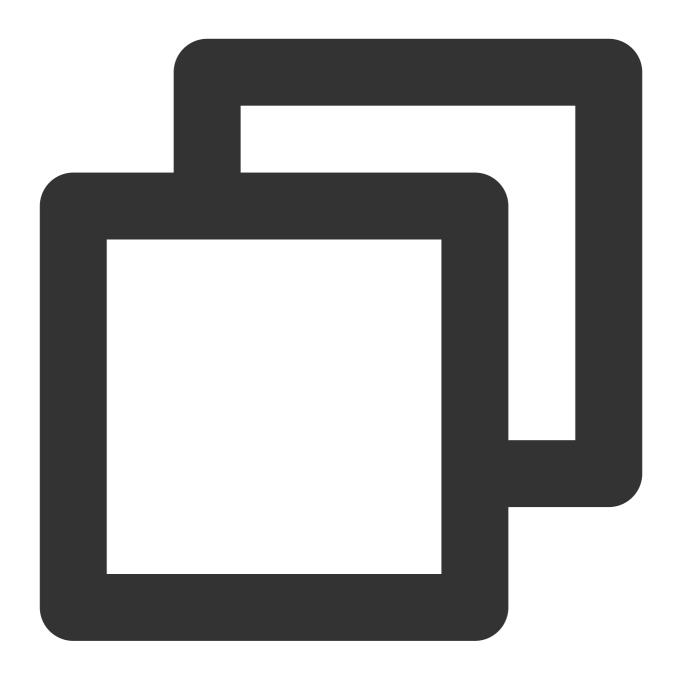
Description

This callback is sent when a user enters the room.

Fields

Field	Туре	Description
Roomld	Integer	The room ID.
UserId	String	The user ID.







Member exit event

Event type

MemberQuit

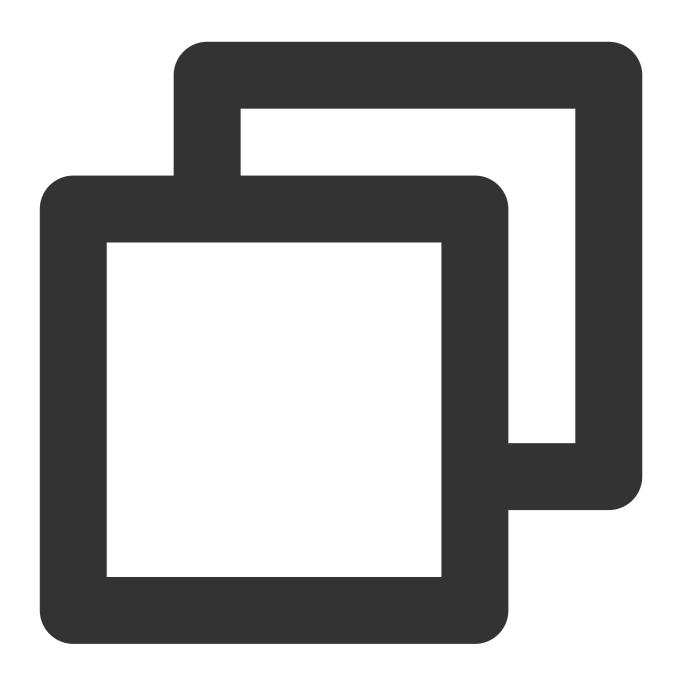
Description

This callback is sent when a user leaves the room.

Fields

Field	Туре	Description
Roomld	Integer	The room ID.
UserId	String	The user ID.





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



Document transcoding completion event

Event type

DocumentTranscodeFinish

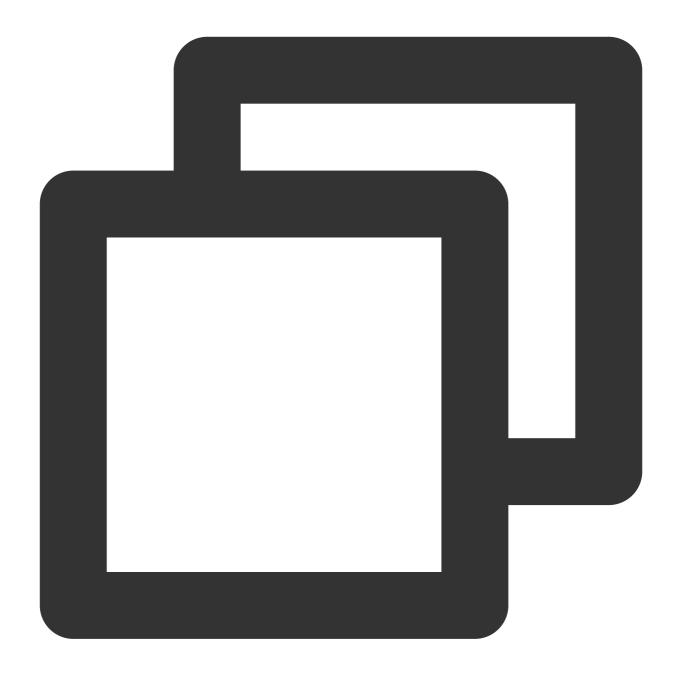
Description

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

Fields

Field	Туре	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.





```
"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,
```



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

Document creation event

Event type

DocumentCreate

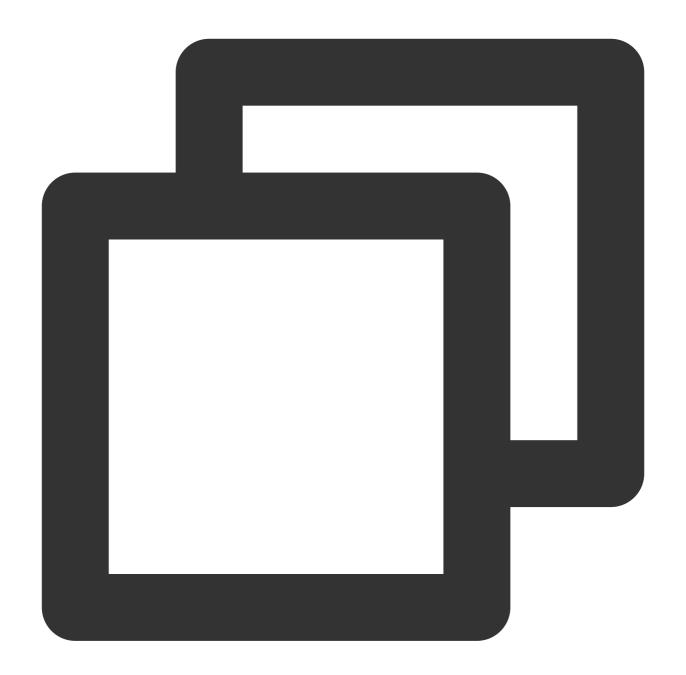
Description

This callback is sent when a document is successfully created.

Fields

Field	Туре	Description
Docld	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.







Document deletion event

Event type

DocumentDelete

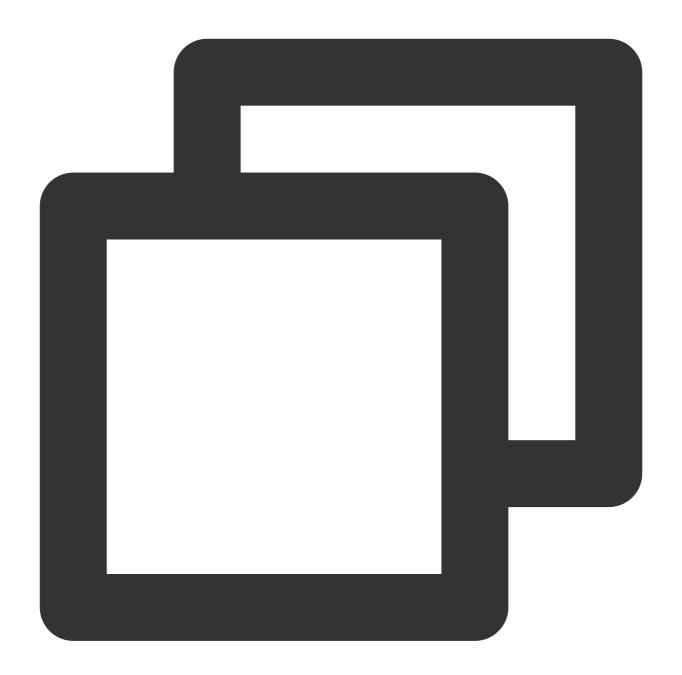
Description

This callback is sent when a document is successfully deleted.

Fields

Field	Туре	Description
Docld	String	The document ID.







Custom event

Event type

TaskUpdate

Description

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

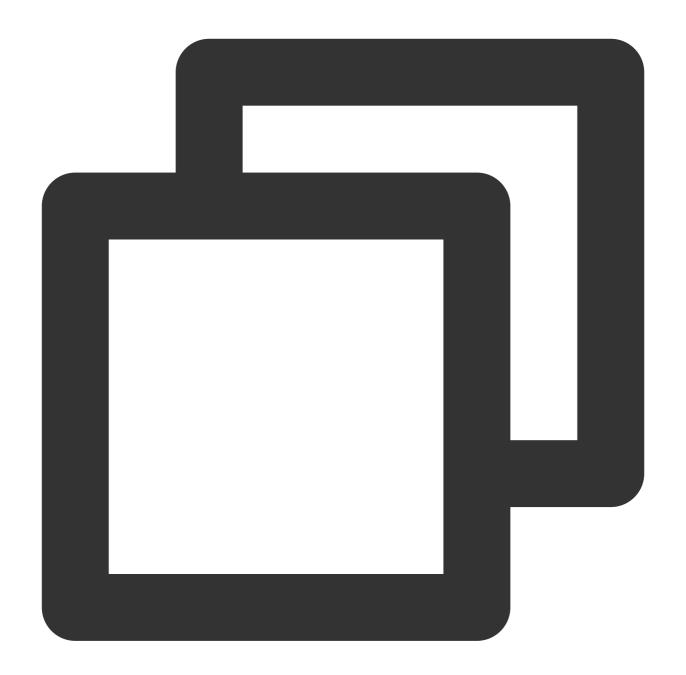
Fields

Field	Туре	Description
Roomld	String	The room ID.
Taskld	String	task ID (taskId in updateTask, which can be modified)
CustomData	String	CustomData (content in updateTask)

Example

JS Example Code

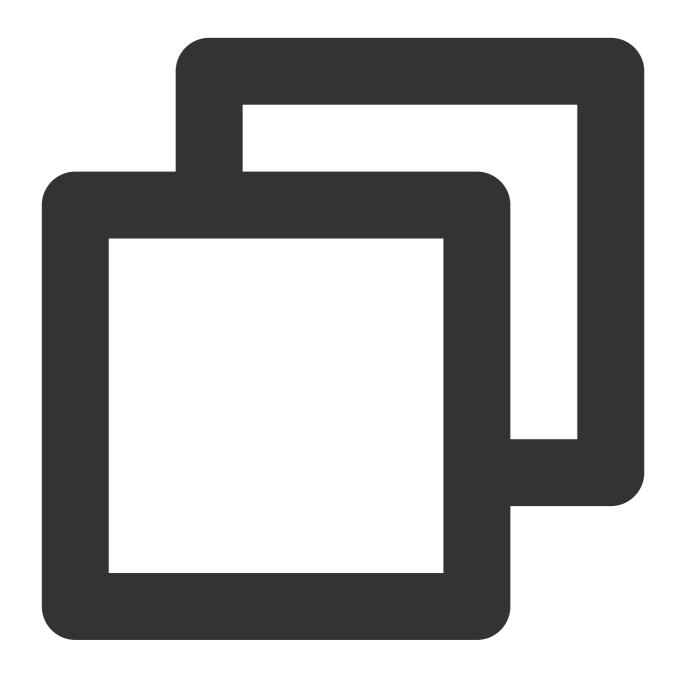




```
"Timestamp": 1679281184,
"ExpireTime": 1679281784,
"Sign": "964ff6d9463280d6a3bd4f7416213be9",
"SdkAppId": 3520371,
"EventType": "TaskUpdate",
"EventData": {
    "RoomId": "397322814",
    "TaskId": "your-task-id",
    "CustomData": "{\\"key1\\":\\"value1\\",\\"key2\\":\\"value2\\"}"
}
```



}



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

