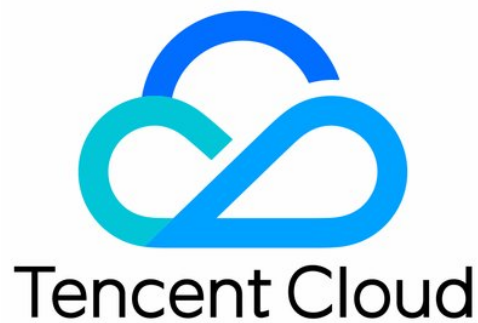


# **Live Video Broadcasting Cloud API Product Introduction**



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# Cloud API

## Live API 2017

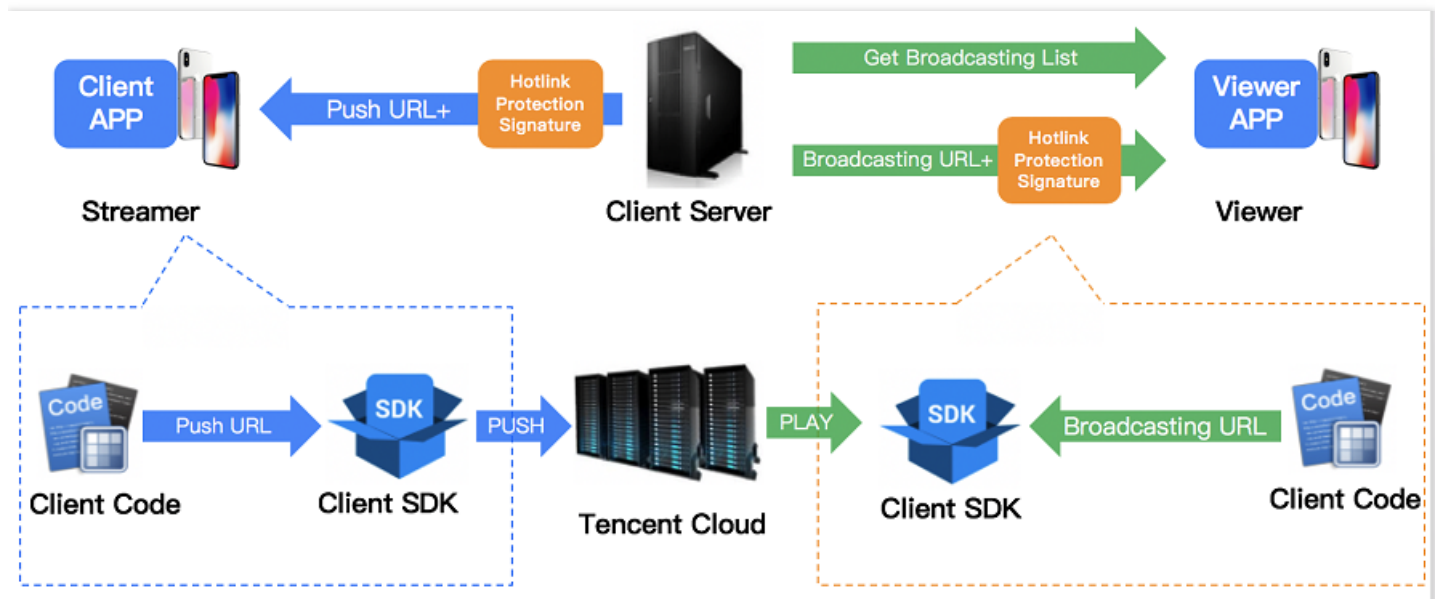
### summarize

Last updated : 2018-07-23 19:32:45

Cloud API is designed to help you manage LVB streams. Tencent Cloud offers two modes: LVB Code mode (new) and channel mode (old).

#### LVB Code access mode

The LVB Code mode is mainly designed to facilitate the direct management of LVB streams by customers in the backend. It was only open to several well-known LVB platforms in China before May 2016, and now it has become a mainstream access solution of Tencent Cloud LVB service owing to its low access cost and high reliability. This solution is designed in such a way that the URL generation and LVB streams are basically controlled by customers, which delivers higher flexibility and customizability. It is the preferred access solution for platform LVB scenarios such as Game LVB and Live Show.



#### Channel (hosting) mode

The channel mode is customized for manual management of LVB channels. It is more suitable for a single event LVB:

- **Create a channel:** Before starting an event, you can create a channel, then get the push URL, and propagate the playback URL.

- **Disable a channel:** After the LVB is finished, or when something unexpected happens, you can disable or ban the LVB channel at any time.

This mode also provides server API support, but the access cost is much higher than LVB Code mode, while the stability is lower.

### The difference between the two modes

Item	LVB Code mode	Channel mode
Push URL	You are free to specify it without communicating with Tencent Cloud backend	You need to generate it in Tencent Cloud backend by creating a channel first
Hotlink protection	Supports push and playback hotlink protection (for playback hotlink protection configuration, please contact customer service)	Supports push hotlink protection, and FLV and HLS playback hotlink protection (RTMP playback hotlink protection is not supported)
API list	<a href="#">LVB Stream Management API</a>	Suitable for manual operation. <a href="#">API</a> is also provided
Message notification	When the stream status changes, you will be notified by a message in JSON format	Not supported
Applicable scenario	Suitable for server interfacing, such as Live Show	Suitable for manual operation, such as an LVB event

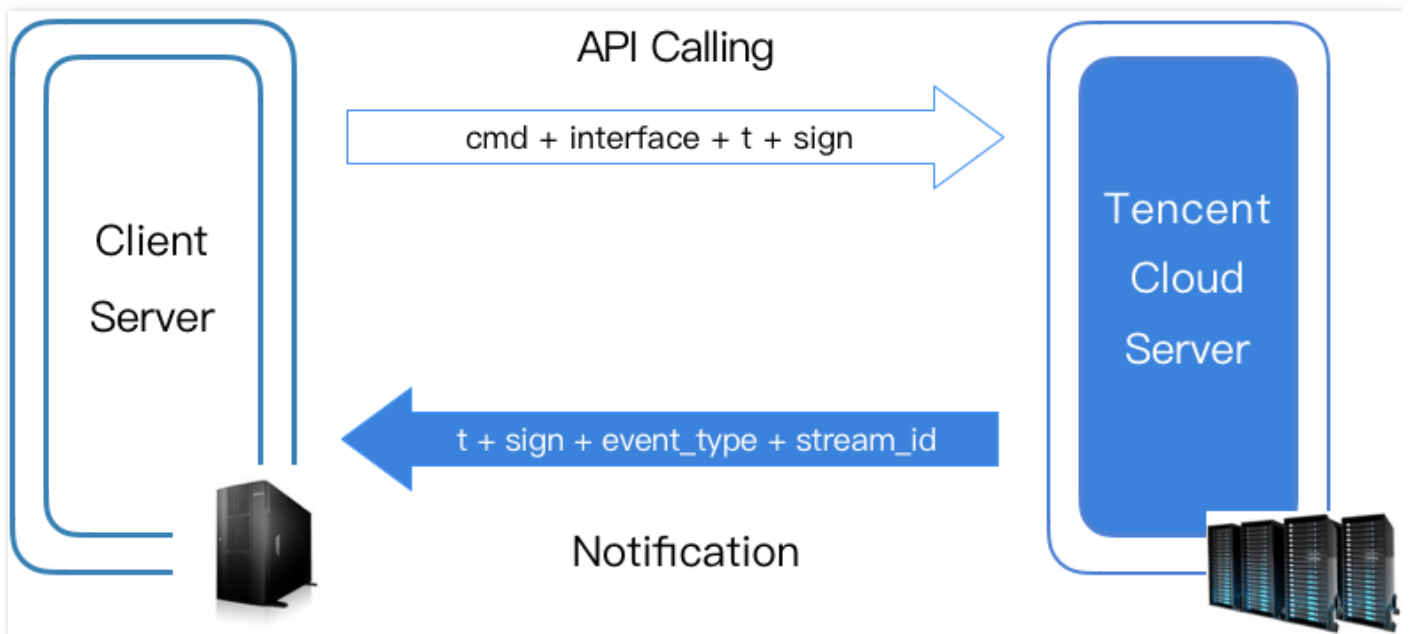
# LVB Code Access

## summarize

Last updated : 2018-10-10 18:35:31

Information synchronization between your server and Tencent Cloud's CVM can be implemented by combining the following two ways:

- **API call:** Tencent Cloud provides a set of LVB code management APIs for your backend server, including status query, status management and other features.
- **Message notification:** As long as you register a callback URL for receiving event notifications in Tencent Cloud, Tencent Cloud will actively notify your backend server of such events in case of change of LVB stream status and generation of recording files in the form of event message (JSON).



### Calling method

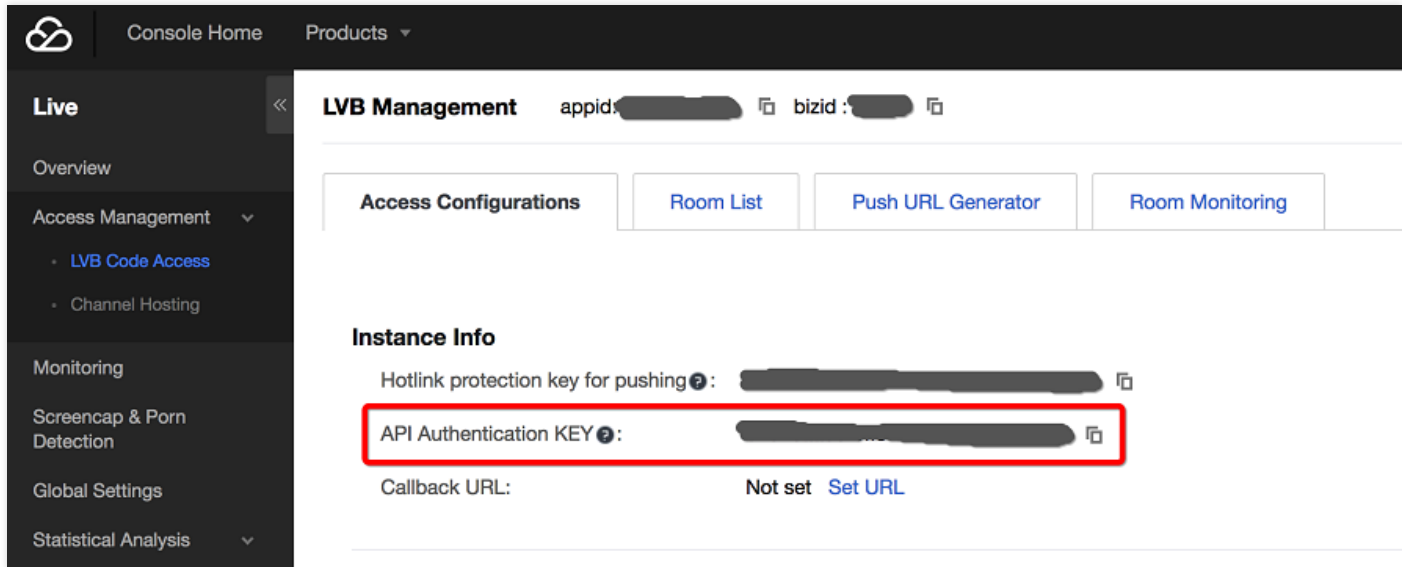
You can call relevant API using GET request method of HTTP protocol on your server, that is, the parameters in the call are directly added in the URL. Example on how to call the API is provided in every API's documentation, so there is no difficulty in interfacing.

### Security mechanism

To ensure performance, we use HTTP protocol to call the API. Therefore, an effective measure is required to ensure the communication security between your server and Tencent Cloud backend.

All LVB Code-related cloud APIs employ the same security check mechanism - "t + sign verification":

- **t (Expiration time):** If the t value specified in an API request or notification has expired, the request or notification is invalid. This can prevent replay attacks. The format of t is the UNIX timestamp, that is, the number of seconds that have elapsed since January 1, 1970 (midnight in UTC/GMT).
- **sign (security signature):**  $\text{sign} = \text{MD5}(\text{key} + \text{t})$ . This means computing the MD5 value by concatenating the encryption key and t. The encryption key here is the CGI call key, which can be specified on the Tencent Cloud LVB [Console](#):



- **How it works**

MD5 is an irreversible HASH algorithm. As long as the key is not disclosed, attackers cannot calculate the key or launch spoofing attacks even if they get many pairs of t and sign.

- **Example**

If the current time is 2016-08-22 15:16:27 and the validity period is 1 minute, the request or notification that comes with this t received later than 2016-08-22 15:17:27 is invalid:

```
t = "2016-08-22 15:17:27" = 1471850187
```

Assume that the key is **5d41402abc4b2a76b9719d911017c592**, and after calculation we can get the following signature:

```
sign = MD5(5d41402abc4b2a76b9719d911017c5921471850187) = b17971b51ba0fe5916ddcd96692e9fb3
```

## Message notification

For more information, please see Tencent Cloud [Event Message Notification](#) service.



# API overview

Last updated : 2018-09-03 10:50:36

Tencent Cloud provides a set of LVB Code management APIs for your backend server, delivering status query, status management and other features.

## APIs

API	Feature Description
<a href="#">Get_LiveStat</a>	Statistics query - queries the push and playback information
<a href="#">Get_LivePushStat</a>	Statistics query - queries the push information
<a href="#">Get_LivePlayStat</a>	Statistics query - queries the playback information
<a href="#">Get_LivePushStatHistory</a>	Obtains the historical statistics of push
<a href="#">Get_LivePlayStatHistory</a>	Obtains the historical statistics of playback
<a href="#">Live_Channel_GetStatus</a>	Queries only the status information of a stream (old version API)
<a href="#">Live_Channel_SetStatus</a>	Bans an LVB stream. It is mainly used for porn detection.
<a href="#">Live_Tape_GetFilelist</a>	Queries the list of videos recorded during LVB for a certain stream
<a href="#">Live_Queue_Get</a>	Queries the list of screenshots captured during LVB for a certain stream
<a href="#">Live_Channel_GetChannelList</a>	Queries the channel list
<a href="#">Live_Channel_GetLiveChannelList</a>	Queries the channel list in LVB
<a href="#">mix_streamv2.start_mix_stream_advanced</a>	API for stream mixing on the cloud
<a href="#">channel_manager</a>	Stops pushing stream and delays the availability of API. It can disable push for a specified stream.
<a href="#">Live_Tape_Start</a>	Creates a recording task. It supports scheduled recording and real-time recording.
<a href="#">Live_Tape_Stop</a>	Ends a recording task

## Error codes

### 1. HTTP error codes

Error Code	Description	Note
403	Forbidden	Verification is enabled for the API to ensure security. If this error occurs when you perform verification via a browser, you can check whether skey is contained in cookie.
404	Not Found	Check whether the request comes with host

#### 1. Returned error codes

Error Code	Description	Note
appid is invalid	Invalid appid, which indicates the feature is not activated	

**Note:**

The above error codes apply to the APIs listed in this document and do not include [Event Message Notification](#).

# Operation API

## Event Message Notification

Last updated : 2018-09-20 17:59:15

### Feature Description

Events such as state change of an LVB stream, generation of a new recording file and generation of a screenshot file are internally managed in Tencent Cloud. But your backend server may also need to be informed of these events, in which case you can use the event notification service of Tencent Cloud to obtain these events.

You can register a callback URL from your backend server in Tencent Cloud console. When an event occurs, Tencent Cloud will deliver the event to your server using the HTTP POST method, with the event content organized in JSON format.

### Configuring a URL

When you enable the LVB Code mode in the [LVB Console](#) -> **LVB Code Access** -> **Access Configuration**, you can specify a URL for receiving Tencent Cloud notifications, as shown below:

### Message Organizing Format

Notification messages are organized in JSON format and then placed in the HTTP POST protocol body. Note that the ContentType of the POST format here is application/json instead of multipart/form-data. Therefore, do not use the function for reading form fields in PHP or Java to read the messages.

### Common Header Information

The following fields are included in all types of notification messages:

Field Name	Type	Description	Note
t	string	Validity period	UNIX timestamp (decimal)

Field Name	Type	Description	Note
sign	string	Security signature	MD5(KEY+t)
event_type	int	Event type	Current available values: 0, 1, 100, 200
stream_id	string	LVB Code	Indicates the LVB stream from which the event is derived
channel_id	string	LVB Code	Same as stream_id

- **stream\_id | channel\_id (LVB Code)**

In the LVB Code mode, the fields stream\_id and channel\_id have the same value. They have different names due to historical reasons.

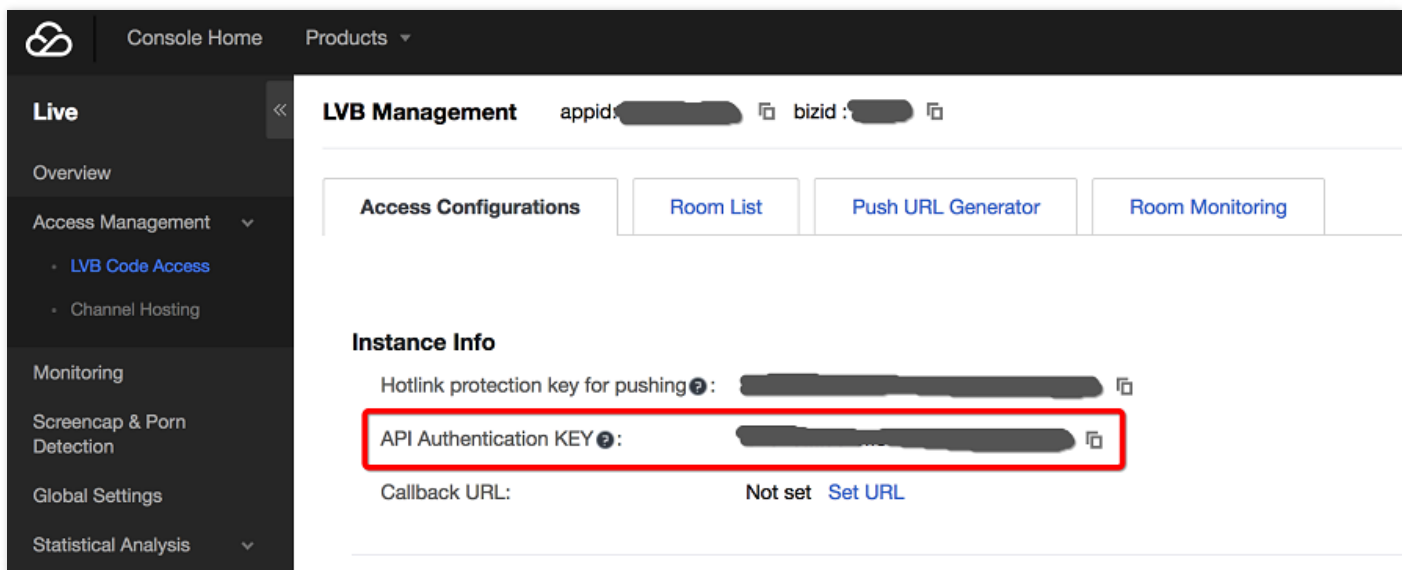
- **t (expiration time)**

The default expiration time of notifications from Tencent Cloud is 10 minutes. If the time specified by t in a notification has expired, the notification is invalid, which can prevent network replay attacks. The format of t is a decimal UNIX timestamp, that is, the number of seconds that have elapsed since January 1, 1970 (Midnight in UTC/GMT).

- **sign (security signature)**

sign = MD5(key + t): Tencent Cloud computes the value of "sign" using MD5 algorithm after concatenating the strings of the encryption key and t, then places the value in a notification. Upon receiving the notification, your backend server can verify whether the "sign" value is correct by using the same algorithm so as to check whether the notification is truly from Tencent Cloud backend.

The encryption key here is the CGI call key, which can be specified when you activate the LVB Code service on the Tencent Cloud LVB console, as shown below:



- **event\_type (notification type)**

Tencent Cloud supports the following types of notifications: 0 - Stream interruption; 1 - Push; 100 -

Generation of a new recording file; 200 - Generation of a new screenshot file.

## Different Types of Message Bodies

### (1) Push (0) Stream Interruption

**event\_type = 0** indicates stream interruption, and **event\_type = 1** indicates push. These types of message bodies also contain the following information:

Field Name	Description	Type	Note	Required
appname	Push path	string		Y
app	Push domain name	string		Y
event_time	Generation time of the message	int	In second	Y
sequence	Sequence number of the message, which indicates a push event. A push event generates push and stream interruption messages with the same sequence number	string		Y
node	Upload access point IP	String		Y
user_ip	User push IP	String	Client_ip	Y
errcode	Stream interruption error code	Int		N
errmsg	Stream interruption error message	String		N
stream_param	Push URL parameter	String		Y
push_duration	Duration of the push	String	In millisecond	N

Example: Tencent Cloud notifies that a stream interruption (event\_type=0) occurred for the LVB stream (1234\_15919131751).

```
{
  "app": "3954.livepush.myqcloud.com",
  "appname": "live",
  "channel_id": "16093425727656502238",
  "event_type": 0,
  "sign": "ab86d22870427e3f25bb1d9446b8f924",
  "stream_id": "3954_ea88f7495ba711e6a2cba4dcbef5e35a",
  "t": 1471256100,
```

```

"event_time": 1471256200,
"sequence": "5911795891871911817",
"node": "123.10.1.1",
"user_ip": "127.0.0.1",
"errcode": 0,
"errmsg": "OK",
"stream_param": ""
}

```

### Stream interruption error codes

Error Code	Error Description	Reason
1	recv rtmp deleteStream	Active interruption at the VJ end
2	recv rtmp closeStream	Active interruption at the VJ end
3	recv() return 0	Active TCP disconnection at the VJ end
4	recv() return error	TCP connection exception at the VJ end
7	rtmp message large than 1M	Exception in received stream data
Other error codes	Internal LVB service exceptions	To solve these errors, contact Tencent's service personnel or <a href="#">submit a ticket</a> . Tel: 4009-100-100

### (100) New recording file

**event\_type = 100** indicates that a new recording file is generated. This type of message body also contains the following information:

Field Name	Description	Type	Note	Required
video_id	vid	string	VID for VOD. It can be used to locate a unique video file on the VOD platform	Y
video_url	Download address	string	Download address of a VOD video	Y
file_size	File size	string		Y
start_time	Starting time stamp of the part	int	Start time (UNIX timestamp. The time cannot be accurate to seconds due to interference of the I frame position)	Y

Field Name	Description	Type	Note	Required
end_time	Ending time stamp of the part	int	End time (UNIX timestamp. The time cannot be accurate to seconds due to interference of the I frame position)	Y
file_id	file_id	string		Y
file_format	File format	string	flv, hls, mp4	Y
vod2Flag	Indicates whether VOD 2.0 is enabled	Int	0: Disabled; 1: Enabled	N
record_file_id	ID of the recording file	String	This field only exists when VOD 2.0 is enabled	N
duration	Duration of the push	Int		Y
stream_param	Push URL parameter	string		Y

Example: A new FLV recording part is generated with the ID of 9192487266581821586. The playback address is [http://200025724.vod.myqcloud.com/200025724\\_ac92b781a22c4a3e937c9e61c2624af7.f0.flv](http://200025724.vod.myqcloud.com/200025724_ac92b781a22c4a3e937c9e61c2624af7.f0.flv) .

```
{
  "appid": 1252033264,
  "channel_id": "2519_2500647",
  "duration": 272,
  "end_time": 1496220894,
  "event_type": 100,
  "file_format": "flv",
  "file_id": "9031868222958931071",
  "file_size": 30045521,
  "record_file_id": "9031868222958931071",
  "sign": "c2e3bdc344ddb62ab05229d01672a79e",
  "start_time": 1496220622,
  "stream_id": "2519_2500647",
  "stream_param": "bizid=2519&record=hls|flv&txSecret=d5569fb19d1e858bf683b30c10dec908&txTime=592FBDD9&mix=layer:b;session_id:709036962551160107;t_id:1",
  "t": 1496221502,
  "video_id": "200011683_481565e0befe4e44903839aebe370ef6",
  "video_url": "http://1252033264.vod2.myqcloud.com/d7a4cabbvodgzp1252033264/0257ade99031868222958931071/f0.flv"
}
```

**(200) New screenshot file**

**event\_type = 200** indicates that a new screenshot image is generated. This type of message body also contains the following information:

Field Name	Description	Type	Note	Required
pic_url	Image address	string	Path without the domain name	Y
create_time	Time stamp of the screenshot	int	Screenshot timestamp (UNIX timestamp. The time cannot be accurate to seconds due to interference of the I frame position)	Y
pic_full_url	Full path of the screenshot	String	The domain name needs to be included	Y

Example: The LVB stream "2016090090936" generated a new screenshot image on Tencent Cloud:

```
{
  "channel_id": "2016090090936",
  "create_time": 1473645788,
  "event_type": 200,
  "pic_url": "/2016-09-12/2016090090936-screenshot-10-03-08-1280x720.jpg", //Path name of the file
  "sign": "8704a0297ab7fdd0d8d94f8cc285cbb7",
  "stream_id": "2016090090936",
  "t": 1473646392
}
```

**Image download address:**

1. Previously, you needed to apply for the COS service to enable the screenshot feature, and the pic\_url we returned to you was not the actual image download address but a download path. The actual download address was generated by combining the following:
2. Download prefix: `http://(cos_bucketname)-(cos_appid).file.myqcloud.com/`
3. Download path: `/2016-09-12/2016090090936-screenshot-10-03-08-1280x720.jpg`
4. Complete URL: `http://(cos_bucketname)-(cos_appid).file.myqcloud.com/2016-09-12/2016090090936-screenshot-10-03-08-1280x720.jpg`

cos\_appid and cos\_bucketname are only available after you activate [Cloud Object Storage](#) on Tencent Cloud. Previously, you could only use the screenshot feature after activating the COS service and binding it to the LVB screenshot service. Now, you can use the feature without applying for the COS



service. You can activate the screenshot feature in the console, or by calling related API after contacting us to configure relevant information.

1. Now, you don't need to activate the COS service, and we can call back the complete screenshot URL to you with an additional complete image URL field of `pic_full_url` so that you can directly get the complete image URL. In order not to affect the original business, the original callback information fields will remain unchanged (that is, the field `pic_url` still exists).

## Notification Reliability

Many customers are worried about message loss. For example, if a customer's server goes down for a while, will the messages be lost?

The message reliability guarantee mechanism of Tencent Cloud backend is implemented based on simple retransmission, that is, if a notification is not successfully sent to the specified callback URL, Tencent Cloud will retry 3 times with an interval of 60 seconds.

So how to tell if the message has been sent to your server successfully? This requires your assistance: When your server receives an HTTP event notification successfully, please make a reply as follows:

```
json
// Return error code 0 in the HTTP request for which a message notification is received to indicate that the message is received successfully, so as to prevent Tencent Cloud from sending the notification repeatedly
{ "code":0 }
```

This indicates: "I (customer server) have received your notification. You (Tencent Cloud) should not keep sending the message to me."

# Enable Close Push

Last updated : 2018-08-01 21:02:12

## 1. API Description

- **API**

**Live\_Channel\_SetStatus:**

This API is used to disable, interrupt and enable an LVB stream. **Disable** means the stream ID is no longer available for push. If the push is in progress, it will be interrupted and cannot be resumed. **Interrupt** means suspending the stream being pushed, which can be re-pushed later. **Enable** means enabling the stream ID and allowing it to push streams.

- **URL**

URL for calling API: `http://fcgi.video.qqcloud.com/common_access`

- **Purpose**

This API is used to ban an LVB during porn detection. For example, if a VJ is found to play porny or rebellious content, this LVB stream can be interrupted or disabled at any time.

- **Note**

Once an LVB stream is set as **disabled**, Tencent Cloud actively disconnects the push linkage and rejects subsequent push requests. A stream can be disabled for up to 3 months. The disabling expires after 3 months.

## 2. Input Parameters

Parameter Name	Description	Type	Note	Required
appid	Customer ID	int	LVB APPID used for identifying customers	Y
interface	API name	string	Live_Channel_SetStatus	Y
t	Validity period	int	UNIX timestamp (decimal)	Y
sign	Security signature	string	MD5(key+t)	Y
Param.s.channel_id	LVB Code	string		Y
Param.n.status	Status	int	0: Disabled; 1: Enabled for push; 2: Stream interrupted	Y

**Note:**

For historical reasons, the LVB Code parameter was defined as `channel_id` in some earlier APIs, and is defined as `stream_id` in new APIs.

### 3. Output Parameters

Parameter Name	Description	Type	Note
ret	Error code	int	0: Successful; other values: Failed.
message	Error message	string	Error message

### 4. Example

Purpose: To ban the LVB stream with an LVB Code of `8888_test123` whose content has violated relevant regulations.

Component	Example
API URL	<code>http://fcgi.video.qcloud.com/common_access?</code>
appid	<code>1234</code>
interface	<code>Live_Channel_SetStatus</code>
Param.s.channel_id	<code>8888_test123</code>
Param.n.status	<code>0</code>
t	<code>1471850187</code>
sign	<code>b17971b51ba0fe5916ddcd96692e9fb3</code>

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "appid is invalid".*

URL = `http://fcgi.video.qcloud.com/common_access?`

`appid=1234&interface=Live_Channel_SetStatus`

`&Param.s.channel_id=8888_test123`

`&Param.n.status=0`

`&t=1471850187&sign=b17971b51ba0fe5916ddcd96692e9fb3`

# Cloud Mixed Streaming

Last updated : 2018-07-24 15:12:19

## 1. API Description

### 1.1 Send a request to the API CGI using HTTP protocol

**Address:** `http://fcgi.video.qcloud.com/common_access` .

**Purpose:** To mix several input streams into one stream on the cloud for output.

### 1.2 Pass the authentication parameter using URI

```
http://fcgi.video.qcloud.com/common_access?appid=1252500000&interface=Mix_StreamV2&t=t&sign=sign
```

#### Parameter description:

Parameter	Description	Type	Note	Required
appid	Customer ID	int	The LVB APPID, which is used to identify different customers	Y
interface	API name	string	The stream mixing API name is always Mix_StreamV2	Y
t	Validity period	int	UNIX timestamp, which is the number of seconds that have elapsed since January 1, 1970 (Midnight in UTC/GMT). This field indicates the expiration time of requests. You need to add 60 seconds of offset to the current time (in sec)	Y
sign	Security signature	string	sign = MD5(key + t). This means computing the MD5 value by concatenating the encryption key and t. The encryption key is the API authentication key set on the Tencent Cloud LVB console.	y

Example on how to compute the security signature "sign":

```
key = "40328529ca4381a80c6ecf2e6aa57438" //API authentication key
t = 1490858347 //t (expiration time)
key + t = "40328529ca4381a80c6ecf2e6aa574381490858347" //Concatenate the strings of the key and t
sign = MD5(key + t) = "7f29ed83c61b77de1b0d66936fd4fd44" //Compute the MD5 value for concatenated string
```

HTTP request description:

```
POST /common_access?interface=Mix_StreamV2&sign=xxxxxxx&appid=125250000 HTTP/1.0 Content-Length: 741
```

### 1.3 Send the stream mixing body using POST method

#### Example:

```
{
  "timestamp":int(time.time()), # UNIX timestamp, which is the number of seconds that have elapsed since
  January 1, 1970 (Midnight in UTC/GMT)
  "eventId":int(time.time()), # You can use a random number to identify a network request
  "interface":
  {
    "interfaceName":"Mix_StreamV2", # Fixed value: "Mix_StreamV2"
    "para":
    {
      "app_id":appid, # Enter the LVB APPID
      "interface": "mix_streamv2.start_mix_stream_advanced", # Fixed value "mix_streamv2.start_mix_stream_adv
      anced"
      "mix_stream_session_id" : "5000_enson", # Enter the stream ID of the primary VJ
      "output_stream_id": "5000_enson11", # Enter the stream ID of the primary VJ
      "output_stream_type": 0, # Enter the output stream type
      "input_stream_list":
      [
        # Primary VJ: Background image
        {
          "input_stream_id":"5000_enson11", # Stream ID
          "layout_params":
          {
            "image_layer": 1 # Image layer ID: Primary VJ: 1; Secondary VJ: 2, 3, 4, 5, 6 in sequence
          }
        },
        # Secondary VJ 1
        {
          "input_stream_id":"5000_enson22", # Stream ID
          "layout_params":
          {
            "image_layer": 2, # Image layer ID
            "image_width": 160, # Secondary VJ image width
            "image_height": 240, # Secondary VJ image height
            "location_x": 380, # x offset: Lateral offset from the top left corner of the primary VJ's background image
            "location_y": 630 # y offset: Longitudinal offset from the top left corner of the primary VJ's background i
            mage
          }
        },
        # Secondary VJ 2
```

```

{
  "input_stream_id": "5000_enson33",
  "layout_params":
  {
    "image_layer": 3,
    "image_width": 160,
    "image_height": 240,
    "location_x": 380,
    "location_y": 390
  }
},
# Secondary VJ 3
{
  "input_stream_id": "5000_enson44",
  "layout_params":
  {
    "image_layer": 4,
    "image_width": 160,
    "image_height": 240,
    "location_x": 380,
    "location_y": 150
  }
}
]
}
}
}

```

### Parameter description

Required parameter description

Parameter Name	Description	Type	Note	Required
timestamp	Current time	int	Enter the current time (in sec)	Y
eventId	Identifies a network request	int	Enter a random number	Y
interfaceName	API ID	string	Mix_StreamV2, a fixed value	Y
app_id	LVB APPID	int	LVB APPID	Y

Parameter Name	Description	Type	Note	Required
interface	Stream mixing API name	string	Enter mix_streamv2.start_mix_stream_advanced, which is fixed	Y
mix_stream_session_id	Stream mixing operation ID	string	Enter a string with a length limited to 80 bytes, containing letters, numbers and underscores only	Y
output_stream_id	Output stream ID	string	Specified output stream ID. It must be a string with a length limited to 80 bytes containing letters, numbers and underscores only. If this parameter is one of the input streams, output_stream_type =0; if this parameter is not one of the input streams, output_stream_type =1	Y
input_stream_id	Input source ID	string	Specified input source ID	Y
image_layer	Image layer ID	int	1-6 is supported for video input sources, and 1-8 for audio input sources	Y

## Optional parameter description

Parameter Name	Description	Type	Note	Required
output_stream_type	Output stream type	int	Enter 0 if the output stream is a stream in the list of input streams; enter 1 if the output stream is not in the list of input streams. It defaults to 0 if left empty. Note: Please consult with customer service if you select 1 for this parameter.	N

Parameter Name	Description	Type	Note	Required
mix_stream_template_id	Input template ID	int	Available values for two input sources are: 10, 20, 30, 40; three input sources: 310, 390, 391; four input sources: 410; five input sources: 510, 590; and six input sources: 610. It defaults to 0 if left empty.	N
input_type	Input source type	int	Available values: 0 indicates the input source is an audio or video; 3 indicates canvas; 4 indicates an audio; and 5 indicates a video.	N
image_width	Input image width	double	The recommended pixel is between 0-3000, and percentage between 0.01-0.99.	N
image_height	Input image height	double	The recommended pixel is between 0-3000, and percentage between 0.01-0.99.	N
location_x	x offset	double	Lateral offset from the top left corner of the primary VJ's background image. The recommended pixel is between 0-3000, and percentage between 0.01-0.99.	N
location_y	y offset	double	Longitudinal offset from the top left corner of the primary VJ's background image. The recommended pixel is between 0-3000, and percentage between 0.01-0.99.	N
color	Color	string	The commonly used colors of canvas are: Black: 0x000000; White: 0xFFFFFFFF; Blue: 0x99CCFF.	N
crop_width	Cropped source image width	int	The recommended pixel is between 0-3000.	N



Parameter Name	Description	Type	Note	Required
crop_height	Cropped source image height	int	The recommended pixel is between 0-3000.	N
crop_x	Lateral offset from the top left corner of the cropped source image.	int	The recommended pixel is between 0-3000.	N
crop_y	Longitudinal offset from the top left corner of the cropped source image.	int	The recommended pixel is between 0-3000.	N

**Common colors:**

Red: 0xcc0033

Yellow: 0xcc9900

Green: 0xcccc33

Blue: 0x99CCFF

Black: 0x000000

White: 0xFFFFFFFF

Gray: 0x999999

**1.4 Message returned by API**

```
{"code":0, "message":"Success!", "timestamp":1490079362}
```

**Parameter description**

Parameter Name	Description	Type	Note
code	Returned error code	int	0: Successful. Other values: Failed
message	Error message	string	Returned error message
timestamp	Timestamp	Long int	Returned time

**Common error codes:**

Error Code	Description
------------	-------------

Error Code	Description
-505	The current query for input stream failed
-21	The parameter for the secondary screen position entered is invalid. The secondary screen falls out of the boundary of the primary screen
-30xxx	The sessionid is used to operate on other output streams before the mixing of input streams under the sessionid is cancelled.
Other	Other errors. Please contact customer service for technical support.

## 1.5 Cancellation of stream mixing

```

{
  "timestamp":int(time.time()), # UNIX timestamp, which is the number of seconds that have elapsed since
  January 1, 1970 (Midnight in UTC/GMT)
  "eventId":int(time.time()), # Stream mixing event ID. Use the timestamp at the backend
  "interface":
  {
    "interfaceName":"Mix_StreamV2", # Fixed value: "Mix_StreamV2"
    "para":
    {
      "app_id":appid, # Enter the LVB APPID
      "interface": "mix_streamv2.start_mix_stream_advanced", # Fixed value "mix_streamv2.start_mix_stream_adv
      anced"
      "mix_stream_session_id" : "5000_enson", # Enter the stream ID of the primary VJ
      "output_stream_id": "5000_enson11", # Enter the stream ID of the primary VJ
      "input_stream_list":
      [
        # Primary VJ: Background image
        {
          "input_stream_id":"5000_enson11", # Stream ID
          "layout_params":
          {
            "image_layer": 1 # Image layer ID: Primary VJ: 1; Secondary VJ: 2, 3, 4 in sequence
          }
        }
      ]
    }
  }
}

```

**Note:**

To cancel a stream mixing task, you can operate on the current input stream using the current sessionid. Operations on other output streams with this sessionid can be performed after half a minute.

## 2. Scenarios and Notes on Special Operations

### 2.1 Supported features

#### Features

Feature Description	Using Condition	demo File Name
Mixing of 2-6 audio-video streams	The input sources are audios and videos	test_video_and_audio.py
Mixing of 2-6 audio-video streams and canvas	The input sources are audios, videos and canvas	test_stream_and_canvas.py
Mixing of 2-6 audio-video streams and video-only streams	The input sources are audio-video streams and video-only streams	test_stream_and_video.py
Mixing of 2-6 audio-video streams and audio-only streams	The input sources are audio-video streams and audio-only streams	test_stream_and_audio.py
Cropping on the cloud	The input sources are audio-video streams or video-only streams	test_stream_crop.py
Mixing of 2-8 audio-only streams	The input sources are audios only	test_audio_only.py

### 2.2 Common templates

Common templates include 10, 20, 30, 40, 310, 410, 510, and 610. When using the above templates, you don't need to enter position and length and width parameters for input streams, which are scaled in proportion to the original images. Only template ID needs to be passed.

Template 10 preview:



Template 20 preview:



Template 30 preview:



Template 40 preview:



Template 310 preview:



Template 410 preview:



Template 510 preview:



Template 610 preview:



## 2.3 Notes on special templates

To meet the needs of some users for split screen comparison, we provide three special templates: 390, 391 and 590.

Template 390 preview:



Template 391 preview:





Template 590 preview:

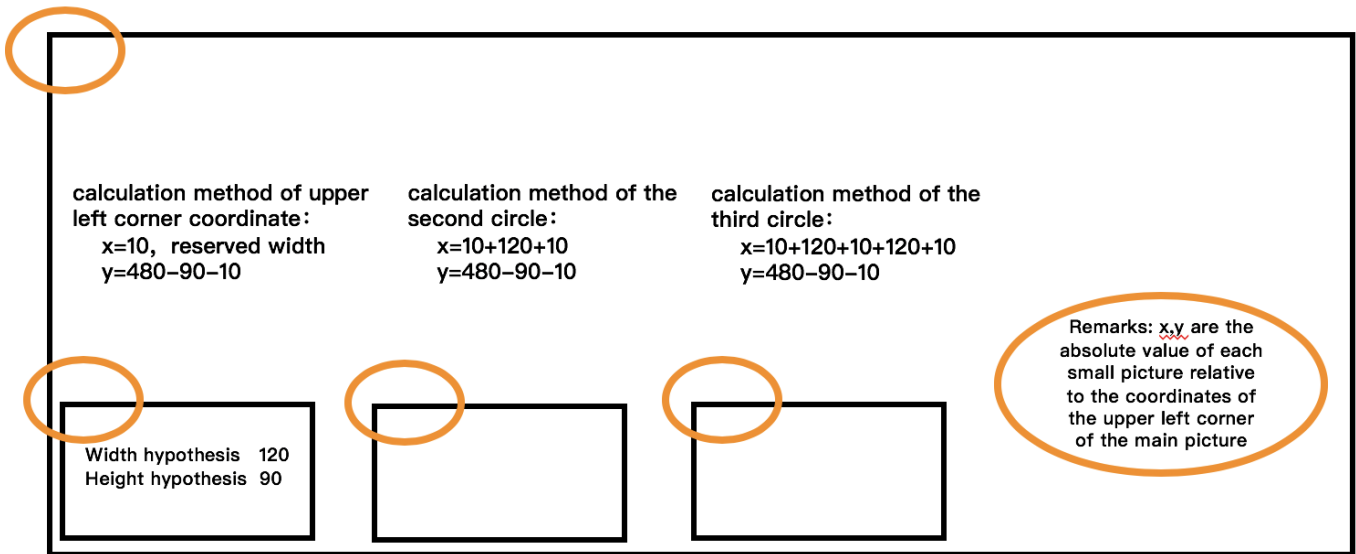


**Note:**

When you use these templates, the input source with the image layer ID being 1 must be canvas, and its color can be customized.

## 2.4 How to enter custom position parameters

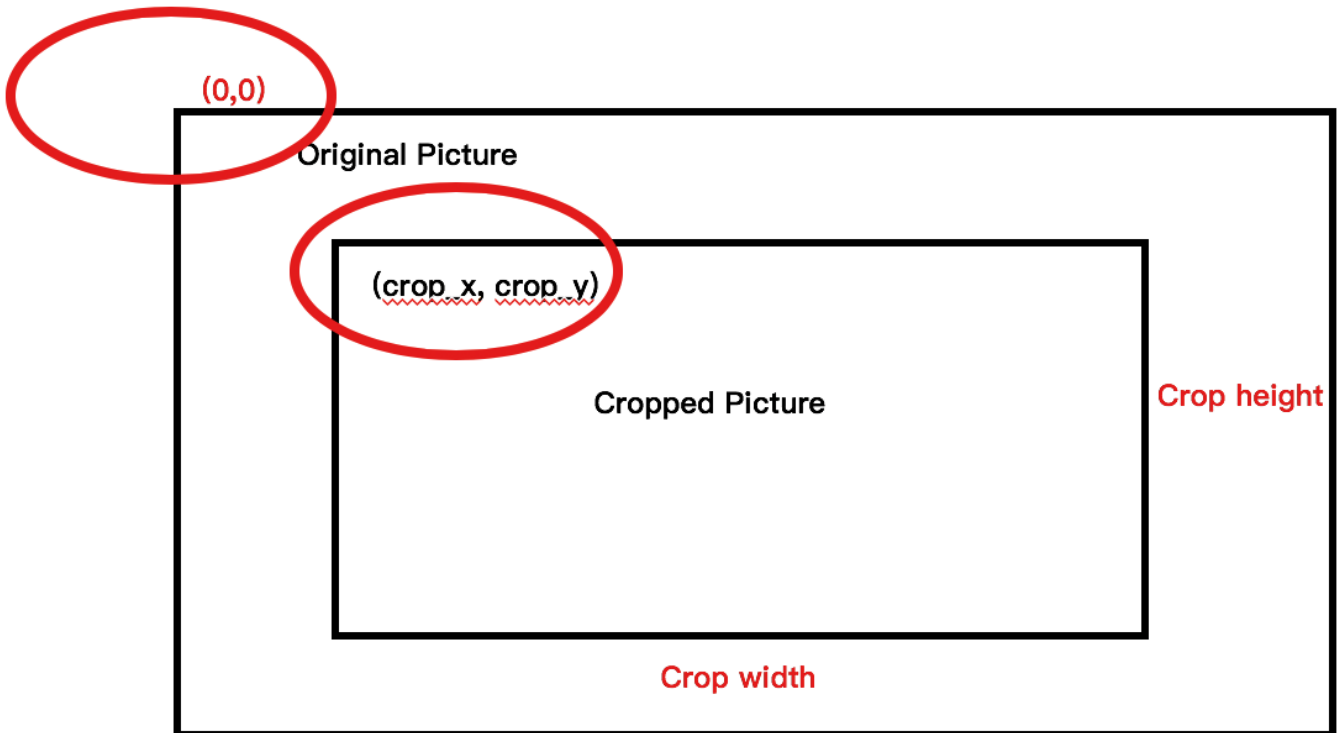
Diagram:



As shown in the diagram above, the position parameters `location_x` and `location_y` are the absolute pixel distance from the top left corner of the secondary screen to that of the background image.

### 2.5 How to enter cropping position parameters

Diagram:



As shown in the diagram above:

a. Both the width and height and the position parameters you entered are absolute pixel values. Streams of different pixels are handled differently.

B. The position parameters `crop_x` and `crop_y` represent the absolute pixel distance from the top left corner of the original stream.

## 2.6 Demo downloading

**Download the stream mixing demo:** Click [here](#) to download the demo.

# Pause and Resume after Latency

Last updated : 2018-08-01 21:03:08

## 1. API Description

- **API**

**channel\_manager**: This API is used to stop pushing stream and delay the availability of API.

- **URL**

URL for calling API: `http://fcgi.video.qcloud.com/common_access`.

- **Purpose**

This API can be called when VJ push is not allowed for certain reasons.

- **Note**

This API is called to stop pushing a stream (which means to disable the push). To resume VJ push, you can call this API again or set a time for resuming push, and the push will be enabled at the specified time. A stream can be disabled for up to 3 months (3 months after the current time). If the suspension period is set to more than 3 months, 3 months shall prevail.

## 2. Input Parameters

Parameter Name	Description	Type	Note	Required
APPID	Customer ID	int	LVB APPID used for identifying customers	Y
interface	API name	string	For example: Get_LivePushStat	Y
t	<a href="#">Validity period</a>	int	UNIX timestamp (decimal)	Y
sign	<a href="#">Security signature</a>	string	MD5(key+t)	Y
Param.s.channel_id	LVB Code	string		Y
Param.n.abstime_end	The timestamp for the end time of stream suspension	int	The absolute time of stream suspension. Enter a UNIX timestamp (decimal). A stream can be disabled for up to 3 months.	
Y				

Parameter Name	Description	Type	Note	Required
Param.s.action	Action	string	Interrupt stream: Forbid; Resume push: Resume	Y

### 3. Output Parameters

Parameter Name	Description	Type	Note
ret	Error code	int	0: Successful; other values: Failed.
message	Error message	string	Error message

### 4. Example

Purpose: To ban the LVB stream with an LVB Code of 8888\_test123 whose content has violated relevant regulations.

Component	Example
API URL	http://fcgi.video.qcloud.com/common_access?
APPID	1234
interface	Live_Channel_SetStatus
Param.s.channel_id	8888_test123
Param.n.abstime_end	1499756910
t	1471850187
sign	b17971b51ba0fe5916ddcd96692e9fb3
Param.s.action	resume

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "appid is invalid".*

```
URL = http://fcgi.video.qcloud.com/common_access?
appid=1234&interface=Live_Channel_SetStatus
&Param.s.channel_id=8888_test123
&Param.n.abstime_end=1499756910
```

```
&t=1471850187&sign=b17971b51ba0fe5916ddcd96692e9fb3  
&Param.s.actio=resume
```

# Create Recording Task

Last updated : 2018-08-08 16:16:49

## 1. API Description

- **API**

**Live\_Tape\_Start:** This API is used to create a recording task.

- **URL**

URL for calling API: `http://fcgi.video.qcloud.com/common_access`

- **Note**

Recorded files are stored on the VOD platform. If you want to use the recording feature, you need to activate the VOD service. When recording files are stored, the charges (including charges for storage and downstream playback traffic) are calculated with VOD billing method. For more information, please see [relevant document](#).

Create a recording task. This API supports two recording modes: Scheduled Recording and Real-time Recording. In Scheduled Recording, importing the start time of a task is needed, which may cause the missing of wonderful moments in a video. In Real-time Recording, recording is synchronous with playback of a video, making it possible to capture all of the marvelous moments in a video. Note: API calling timeout should be greater than 3 seconds, because retries within 3 seconds and frequent calls may lead to duplicate recording tasks.

## 2. Input Parameters

Parameter Name	Description	Type	Note	Required
APPID	Customer ID	int	LVB APPID used for identifying customers	Y
interface	API name	string	Enter Live_Tape_Start	Y
t	<a href="#">Validity period</a>	int	UNIX timestamp (decimal)	Y
sign	<a href="#">Security signature</a>	string	MD5(key+t)	Y
Param.s.channel_id	Channel ID	string		Y
Param.s.start_time	Start time of the task	string	China Standard Time, which needs urlencode, such as: 2017-01-01 10:10:01	Y
Param.s.end_time	End time of the task	string	China Standard Time, which needs urlencode, such as: 2017-01-01 10:10:01	Y

Parameter Name	Description	Type	Note	Required
Param.n.task_sub_type	Whether to enable real-time recording	int	<p>1 - Enable; 0 - Disable. 1 is recommended.</p> <p>a. Creating real-time recording tasks requires that VJs push streams actively. The video recording starts at the moment when this API is successfully called. In this case, the parameter of task start time is ignored.</p> <p>b. The real-time recording task supports a maximum length of 30 minutes. If the time difference between the passed task end time and the current time is longer than 30 minutes, only a length of 30 minutes is recorded. The recommended recording length is within 5 minutes.</p> <p>c. If real-time recording is disabled, the parameter of task start time is required, and the time difference between the end time and the start time should not be longer than 1 day.</p>	Y
Param.s.file_format	Format of recorded files	string	Available values include flv (default), hls, mp4, and aac	N
Param.s.record_type	Type of recorded files	string	<p>Default is video</p> <p>When record_type is "video", file_format can be "flv", "hls", or "mp4"</p> <p>When record_type is "audio", file_format can be "aac", "flv", "hls", or "mp4"</p>	N

### 3. Output Parameters

Parameter Name	Description	Type	Note
ret	Error code	int	0: Successful; other values: Failed.
message	Error message	string	Error message
output	Message content	array	For more information, please see the description below.

"output" is composed as follows:



Field Name	Description	Type	Note
task_id	Task ID	int	64-bit unsigned integer

#### 4. Example

Purpose: To query the list of files recorded during the LVB for the LVB stream with an LVB Code of 8888\_test123.

Component	Example
API URL	<code>http://fcgi.video.qq.com/common_access?</code>
appid	1234
interface	Live_Tape_Start
Param.s.channel_id	8888_test123
Param.s.start_time	Start time of the task
Param.s.end_time	End time of the task
t	1471850187
sign	b17971b51ba0fe5916ddcd96692e9fb3

//When copying them, remove the invisible line breaks used **for** improving layout. Otherwise, URL construction errors may occur, such as **"appid is invalid"**.

URL = `http://fcgi.video.qq.com/common_access?`

`appid=1234&interface=Live_Tape_Start`

`&Param.s.channel_id=8888_test123`

`&Param.s.start_time=2017-05-20+10:00:00`

`&Param.s.end_time=2017-05-20+10:30:00`

`&Param.n.task_sub_type=1`

`&t=1471850187&sign=b17971b51ba0fe5916ddcd96692e9fb3`

Note: Param.s.start\_time **and** Param.s.end\_time need to be encoded. After being encoded, `2017-05-20 10:00:00` is converted to `2017-05-20+10:00:00`, **and** `2017-05-20 10:30:00` to `2017-05-20+10:30:00`.

# End Recording Task

Last updated : 2018-07-10 15:43:02

## 1. API Description

- **API**

**Live\_Tape\_Stop:** This API is used to end a recording task.

- **URL**

URL for calling API: `http://fcgi.video.qcloud.com/common_access`

- **Note**

End a recording task.

## 2. Input Parameters

Parameter Name	Description	Type	Note	Required
APPID	Customer ID	int	LVB APPID used for identifying customers	Y
interface	API name	string	For example: Get_LivePushStat	Y
t	<a href="#">Validity period</a>	int	UNIX timestamp (decimal)	Y
sign	<a href="#">Security signature</a>	string	MD5(key+t)	Y
Param.s.channel_id	Channel ID	string		Y
Param.s.task_id	Task ID	string		Y
Param.n.task_sub_type	Whether to enable real-time recording	int	Default is 0, and 1 means enabling real-time recording	N

## 3. Output Parameters

Parameter Name	Description	Type	Note
ret	Error code	int	0: Successful; other values: Failed.
message	Error message	string	Error message

## 4. Example

Purpose: To query the list of files recorded during the LVB for the LVB stream with an LVB Code of 8888\_test123.

Component	Example
API URL	<code>http://fcgi.video.qcloud.com/common_access?</code>
APPID	1234
interface	Live_Tape_Stop
Param.s.channel_id	8888_test123
Param.n.task_id	123
t	1471850187
sign	b17971b51ba0fe5916ddcd96692e9fb3

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "appid is invalid".*

URL = `http://fcgi.video.qcloud.com/common_access?`

`appid=1234&interface=Live_Tape_Stop`

`&Param.s.channel_id=8888_test123`

`&Param.n.task_id=123`

`&t=1471850187&sign=b17971b51ba0fe5916ddcd96692e9fb3`

# Query API

## Query Live Status

Last updated : 2018-07-11 14:51:57

### 1. API Description

- **API**

**Live\_Channel\_GetStatus:** This API is used to query whether a stream has a status of Broadcasting.

- **URL**

URL for calling API: `http://fcgi.video.qqcloud.com/common_access`

- **Purpose**

To query whether a stream has a status of Broadcasting. It is implemented based on Tencent Cloud's detection of audio/video stream interruption, and thus may not be as fast and accurate as the active reporting of application in terms of real-time capability. But it can serve as a good supplementary means for checking and clearing up LVB streams regularly.

- **Note**

If the push LVB Code to be queried is never used to push streams, the 20601 error code is returned.

### 2. Input Parameters

Parameter Name	Description	Type	Note	Required
APPID	Customer ID	int	LVB APPID used for identifying customers	Y
interface	API name	string	For example: Get_LivePushStat	Y
t	<a href="#">Validity period</a>	int	UNIX timestamp (decimal)	Y
sign	<a href="#">Security signature</a>	string	MD5(key+t)	Y
Param.s.channel_id	LVB Code	string	A single LVB stream can be queried at one time	Y

**Note:**

For historical reasons, the LVB Code parameter was defined as `channel_id` in some earlier APIs, and is defined as `stream_id` in new APIs.

### 3. Output Parameters

Parameter Name	Description	Type	Note
ret	Error code	int	0: Successful; other values: Failed.
message	Error message	string	Error message
output	Message content	array	For more information, please see the description below.

"output" is composed as follows:

Field Name	Description	Type	Note
rate_type	Bitrate	int	0: original bitrate; 10: LD; 20: HD
recv_type	Playback protocol	int	1: RTMP/FLV; 2: HLS; 3: RTMP/FLV+HLS
status	Status	int	0: Interrupted; 1: Enabled; 3: Disabled

### 4. Example

Purpose: To query whether the LVB stream with the LVB Code of 8888\_test123 is in a status **Broadcasting**.

Component	Example
API URL	<code>http://fcgi.video.qcloud.com/common_access?</code>
APPID	1234
interface	Live_Channel_GetStatus
Param.s.channel_id	8888_test123
t	1471850187
sign	b17971b51ba0fe5916ddcd96692e9fb3

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "appid is invalid".*

```
URL = http://fcgi.video.qcloud.com/common_access?
appid=1234&interface=Live_Channel_GetStatus
&Param.s.channel_id=8888_test123
&t=1471850187&sign=b17971b51ba0fe5916ddcd96692e9fb3
```

# Query Statistical Info

Last updated : 2018-07-10 16:44:47

## 1. API Description

- **API**

**Get\_LiveStat:** This API is used to query the push and playback information about a specified LVB stream.

**Get\_LivePushStat:** Return only the push statistics to improve query efficiency.

**Get\_LivePlayStat:** Return only the playback statistics to improve query efficiency.

- **URL**

URL for calling API: [http://statcgi.video.qcloud.com/common\\_access](http://statcgi.video.qcloud.com/common_access)

- **Purpose**

To query the statistics (such as number of viewers, bandwidth, bit rate, and frame rate) of an LVB stream.  
To query the statistics of multiple LVB streams that are being broadcast (paged query is recommended to avoid excessive returned data packet in each time)

- **Note**

The statistics are instantaneous statistics at the query time point rather than historically accumulated data. If the target stream is not in "Broadcasting" status, the output field in the returned result is blank.

The push statistics are updated once every **5 seconds**, which means there's no need to query at an interval shorter than 5 seconds.

The playback statistics are updated once every **1 minute**, which means there's no need to query at an interval shorter than 60 seconds.

- **BETA**

The statistic API is still in Beta and is not open to all customers. If you call this API when it is not activated, you will receive a prompt "cmd is invalid". Contact us if there's an urgent need.

## 2. Input Parameters

Parameter Name	Description	Type	Note	Required
cmd	Customer ID	int	LVB APPID used for identifying customers	Y
interface	API name	string	For example: Get_LivePushStat	Y
t	<a href="#">Validity period</a>	int	UNIX timestamp (decimal)	Y
sign	<a href="#">Security signature</a>	string	MD5(key+t)	Y
Param.n.page_no	Page number	int	Starts from 1. Default value is 1	N

Parameter Name	Description	Type	Note	Required
Param.n.page_size	Page size	int	1-300. Default is 300	N
Param.s.stream_id	LVB Code	string	If stream_id is not set, all streams that are in LVB will be queried	N
Param.s.pull_domain	Domain name for pulling stream	string	Playback domain name. If it is left empty, the playback statistics for all domain names are returned.	N

### 3. Output Parameters

#### Get\_LiveStat

Parameter Name	Description	Type	Note
ret	Error code	int	0: Successful; other values: Failed.
message	Error message	string	Error message
output	Message content	array	For more information, please see the description below.

"output" is composed as follows:

Field Name	Description	Type	Note
stream_count	Total number of online LVB streams	int	
stream_info	Statistics for the LVB stream	array	For more information, please see below.
total_bandwidth	Total bandwidth for the current account upon query	double	Unit: Mbps
total_online	Total number of online viewers for the current account upon query	int	

"stream\_info" is composed as follows:

Field Name	Description	Type	Note
stream_name	LVB Code	string	-
bandwidth	Instantaneous bandwidth usage of the LVB stream	double	Unit: Mbps

Field Name	Description	Type	Note
online	Instantaneous number of live viewers for the LVB stream	int	
client_ip	Push client IP	string	-
server_ip	IP of the server that receives the stream	string	-
fps	Instantaneous frame rate of the push	int	-
speed	Instantaneous bit rate of the push	int	bps

### Get\_LivePushStat

The output of Get\_LivePushStat is a subset of Get\_LiveStat:

Field Name	Description	Type	Note
stream_count	Total number of online LVB streams	int	
stream_info	Statistics for the LVB stream	array	For more information, please see below.

"stream\_info" is composed as follows:

Field Name	Description	Type	Note
stream_name	LVB Code	string	-
client_ip	Push client IP	string	-
server_ip	IP of the server that receives the stream	string	-
fps	Instantaneous frame rate of the push	int	-
speed	Instantaneous bit rate of the push	int	bps

### Get\_LivePlayStat

The output of Get\_LivePushStat is another subset of Get\_LiveStat:

Field Name	Description	Type	Note
stream_count	Total number of online LVB streams	int	
stream_info	Statistics for the LVB stream	array	For more information, please see below.



Field Name	Description	Type	Note
total_bandwidth	Total bandwidth for the current account upon query	double	Unit: Mbps
total_online	Total number of online viewers for the current account upon query	int	

"stream\_info" is composed as follows:

Field Name	Description	Type	Note
stream_name	LVB Code	string	-
bandwidth	Instantaneous bandwidth usage of the LVB stream	double	Unit: Mbps
online	Instantaneous number of live viewers for the LVB stream	int	

#### 4. Example

Purpose: To query the push and playback information of all video streams that are being broadcasted under the current account

Component	Example
API URL	<code>http://statcgi.video.qcloud.com/common_access?</code>
cmd	1234
interface	Get_LiveStat
Param.n.page_no	1
Param.n.page_size	20
t	1471850187
sign	b17971b51ba0fe5916ddcd96692e9fb3

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "cmd is invalid".*

```
URL = http://statcgi.video.qcloud.com/common_access?
cmd=1234&interface=Get_LiveStat
&Param.n.page_no=1
&Param.n.page_size=20
&t=1471850187&sign=b17971b51ba0fe5916ddcd96692e9fb3
```

# Query Recording File

Last updated : 2018-08-03 16:56:58

## 1. API Description

- **API**

**Live\_Tape\_GetFilelist:** This API is used to query the recorded files generated in a certain LVB stream during a certain period of time.

- **URL**

URL for calling API: [http://fcgi.video.qcloud.com/common\\_access](http://fcgi.video.qcloud.com/common_access)

- **Note**

You cannot determine when to call the API due to the uncertainty of the file generation time. Therefore, you are recommended to use [Passive Event Notification](#) (event\_type = 100) mechanism.

## 2. Input Parameters

Parameter Name	Description	Type	Note	Required
APPID	Customer ID	int	LVB APPID used for identifying customers	Y
interface	API name	string	For example: Get_LivePushStat	Y
t	<a href="#">Validity period</a>	int	UNIX timestamp (decimal)	Y
sign	<a href="#">Security signature</a>	string	MD5(key+t)	Y
Param.s.channel_id	LVB Code	string		Y
Param.n.page_no	Page number	int	Starts from 1. Default value is 1	N
Param.n.page_size	Page size	int	1-100. Default is 10	N
Param.s.sort_type	Sorting method	string	"asc" indicates ascending order, and "desc" indicates descending order. Default is "asc".	N
Param.s.start_time	Start time for the query	string	Format is: 2016-12-10 00:00:00	N
Param.s.end_time	End time for the query	string	Format: 2016-12-10 00:00:00. The end time must be less than 24 hours later than the start time in the same day	N

**Note:**

For historical reasons, the LVB Code parameter was defined as `channel_id` in some earlier APIs, and is defined as `stream_id` in new APIs.

**3. Output Parameters**

Parameter Name	Description	Type	Note
ret	Error code	int	0: Successful; other values: Failed.
message	Error message	string	Error message
output	Message content	array	For more information, please see the description below.

"output" is composed as follows:

Field Name	Description	Type	Note
all_count	Number of fragments	int	
file_list	Information of the fragment	array	For more information, please see the description below.

"file\_list" is composed as follows:

Field Name	Description	Type	Note
vid	vid of the VOD file	string	"record_file_url" is used if the field is left empty.
start_time	Start time of the fragment	string	The time cannot be accurate to seconds due to interference of the I frame position
end_time	End time of the fragment	string	The time cannot be accurate to seconds due to interference of the I frame position
file_id	ID of the VOD file	string	This parameter is required to obtain playback URL with VOD API

Field Name	Description	Type	Note
record_file_url	Playback address	string	This field is used as the address. If left empty, the address will be the vid which is assembled based on assembly format

**Note:**

vid assembly format (URL format for video fragment recording requests):

```
http://(VODbizid).vod.myqcloud.com/(vid).f0.flv
```

## 4. Example

Purpose: To query the list of files recorded during the LVB for the LVB stream with an LVB Code of 8888\_test123.

Component	Example
API URL	<code>http://fcgi.video.qcloud.com/common_access?</code>
APPID	1234
interface	Live_Tape_GetFilelist
Param.s.channel_id	8888_test123
Param.n.page_no	1
Param.n.page_size	20
t	1471850187
sign	b17971b51ba0fe5916ddcd96692e9fb3

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "appid is invalid".*

```
URL = http://fcgi.video.qcloud.com/common_access?
appid=1234&interface=Live_Tape_GetFilelist
&Param.s.channel_id=8888_test123
&Param.n.page_no=1
&Param.n.page_size=20
&t=1471850187&sign=b17971b51ba0fe5916ddcd96692e9fb3
&Param.s.start_time=2016-12-10 00:00:00
&Param.s.end_time=2016-12-10 01:00:00
```

# Query Channel List

Last updated : 2018-10-09 15:54:52

## 1. API Description

- **API**

**Live\_Channel\_GetChannelList:** This API is used to query channel list.

- **URL**

URL for calling API: [http://fcgi.video.qcloud.com/common\\_access](http://fcgi.video.qcloud.com/common_access)

- **Purpose**

To query the current channel list in LVB Code mode.

- **Note**

You can query a list of channels with a certain status, such as channels that are active.

## 2. Input Parameters

Parameter Name	Description	Type	Note	Required
APPID	Customer ID	int		Y
interface	API name	string		Y
t	Expiration time stamp	int		Y
sign	Signature	string	md5(key+expiration time stamp)	Y
Param.n.status	0: stream interrupted; 1: enabled; 3: disabled	int	Filter is not used by default	N
Param.n.page_no	Page number	int	Starts from 1. Default value is 1	N
Param.n.page_size	Page size	int	10-100. Default is 10	N
Param.s.order_field	Sorting field	string	Available value: create_time. Default is create_time.	N
Param.n.order_type	Sorting method	int	0 indicates ascending order. 1 indicates descending order.	N

## 3. Output Parameters

Parameter Name	Description	Type	Note
ret	Error code	int	0: Successful. Other values: Failed

Parameter Name	Description	Type	Note
message	Error message	string	Error description
output	Message content	array	

"output" is composed as follows:

Field Name	Description	Type	Note
all_count	Total number	int	
channel_list	List	array	

"channel\_list" is composed as follows:

Parameter Name	Description	Type	Note
channel_id	LVB Code ID	string	

## 4. Example

Purpose: Query the list of active channels under the account

Component	Example
API URL	<code>http://fcgi.video.qcloud.com/common_access?</code>
Param.n.status	1
Param.n.page_no	1
Param.n.page_size	20
Param.s.order_field	create_time
Param.n.order_type	0

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "appid is invalid".*

```
URL = http://fcgi.video.qcloud.com/common_access?
appid=1234&interface=Live_Channel_GetChannelList
&t=1471850187&sign=b17971b51ba0fe5916ddcd96692e9fb3
&Param.n.status=1&Param.n.page_no=1&Param.n.page_size=20
&Param.s.order_field=create_time&Param.n.order_type=0
```

# Query Live Channel List

Last updated : 2018-07-11 14:57:07

## 1. API Description

- **API**

**Live\_Channel\_GetLiveChannelList:** This API is used to query channel list.

- **URL**

URL for calling API: [http://fcgi.video.qcloud.com/common\\_access](http://fcgi.video.qcloud.com/common_access)

- **Purpose**

To query channel list for LVB in LVB Code mode.

## 2. Input Parameters

Parameter Name	Description	Type	Note	Required
APPID	Customer ID	int		Y
interface	API name	string		Y
t	Expiration time stamp	int		Y
sign	Signature	string	md5(key+expiration time stamp)	Y

## 3. Output Parameters

Parameter Name	Description	Type	Note
ret	Error code	int	0: Successful. Other values: Failed
message	Error message	string	Error description
output	Message content	array	

"output" is composed as follows:

Field Name	Description	Type	Note
all_count	Total number	int	
channel_list	List	array	

"channel\_list" is composed as follows:

Parameter Name	Description	Type	Note
channel_id	LVB Code ID	string	

#### 4. Example

Purpose: To query the channel list in LVB under the account.

Component	Example
API URL	<code>http://fcgi.video.qcloud.com/common_access?</code>

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "appid is invalid".*

```
URL = http://fcgi.video.qcloud.com/common_access?  
appid=1234&interface=Live_Channel_GetChannelList  
&t=1471850187&sign=b17971b51ba0fe5916ddcd96692e9fb3
```



# Getting Billing Bandwidth Data

Last updated : 2018-07-10 16:56:51

## 1. API Description

- **API**

**Get\_BillingBandwidth:** This API is used to query billing bandwidth data of accounts.

- **URL**

URL for calling API: `http://statcgi.video.qcloud.com/common_access`

- Backend configuration is required to use the API. To call the API, contact Tencent service personnel or [submit a ticket](#). Tel: 4009-100-100.

## 2. Input Parameters

Parameter Name	Description	Type	Note	Required
cmd	Business appid	Enter the LVB appid, which is used to identify different customers	Y	
interface	API name	string	Get_BillingBandwidth	Y
t	<a href="#">Validity period</a>	int	UNIX timestamp (decimal)	Y
sign	<a href="#">Security signature</a>	string	MD5(key+t)	Y
Param.n.start_time	Start time for the query	int	Timestamp	Y
Param.n.end_time	End time for the query	int	Timestamp	Y
Param.s.domain	Domain name	string	Domain name	N

Parameter Name	Description	Type	Note	Required
Param.n.home_foreign	Domestic and abroad data	uint	0: Query total data despite of domestic or abroad (default) 1: Query domestic data only 2: Query abroad data only	N
Param.n.get_top_bd	Obtain peak bandwidth	Uint	0: Obtain the list instead of peak bandwidth and traffic (default) 1: Obtain peak bandwidth and traffic	N

### 3. Output Parameters

Parameter Name	Description	Type	Note
ret	Error code	int	0: Successful. Other values: Failed
message	Error message	string	Error description
output	Message content	array	None

"output" is composed as follows:

Field Name	Description	Type	Note
total_info	Statistics information for total billing bandwidth	array	Granularity of 5 minutes
domain	Domain name	string	Available only after input parameters are passed

"total\_info" is composed as follows:

Field Name	Description	Type	Note
time	Statistical time	string	
bandwidth	Bandwidth	double	Mbps
flux	Traffic	double	MB

## 4. Example

Purpose: To query the billing bandwidth data of accounts.

Component	Example
API URL	statcgi.video.qcloud.com/common_access?
cmd	1251059556
interface	Get_BillingBandwidth
Param.n.start_time	1481299200
Param.n.end_time	1481302800
Param.n.home_foreign	1
Param.s.domain	8888.liveplay.myqcloud.com
t	1471850187
sign	b17971b51ba0fe5916ddcd96692e9fb3

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "appid is invalid".*

```
URL = http://statcgi.video.qcloud.com/common_access?  
cmd=1251059556  
&interface=Get_BillingBandwidth  
&Param.s.domain=8888.liveplay.myqcloud.com  
&t=1471850187&sign=b17971b51ba0fe5916ddcd96692e9fb3  
&Param.n.start_time=1481299200  
&Param.n.end_time=1481302800
```

# Statistics API

## Get Push History Info

Last updated : 2018-07-10 17:04:20

### 1. API Description

- **API**

This API (**Get\_LivePushStatHistory**) is used to obtain the historical statistics of push.

- **URL**

URL for calling API: `http://statcgi.video.qcloud.com/common_access`

- **Note**

Used to obtain the push information for specified time period.

The push statistics is updated every 5 seconds.

- Backend configuration is required to use the API. To call the API, contact Tencent service personnel or [submit a ticket](#). Tel: 4009-100-100.

### 2. Input Parameters

Parameter Name	Description	Type	Note	Required
cmd	Business appid	int	The LVB appid, which is used to identify different customers	Y
interface	API name	string		Y
t	Expiration timestamp	int		Y
sign	Signature	string	md5 (key+expiration timestamp)	Y
Param.n.start_time	Start time for the query	int	Limited to the last 3 days from the timestamp	Y
Param.n.end_time	End time for the query	int	It is recommended to limit the time span for query between start and end times to 2 hours	Y
Param.s.stream_id	Stream ID	string		Y

### 3. Output Parameters

Parameter Name	Description	Type	Remarks	Note
ret	Error code	int	0: Successful; other values: Failed.	
message	Error message	string	Error message	
output	Message content	array	For more information, please see the description below.	

"output" is composed as follows:

Parameter Name	Description	Type	Remarks	Note
stream_info	Statistics of the time stream of push	list	Array (list)	

"stream\_info" is composed as follows:

Parameter Name	Description	Type	Remarks	Note
time	Time when push starts	string		
client_ip	Push client IP	string		
server_ip	IP of the server that receives the stream	string		
fps	Frame rate of the push	int		
speed	Bitrate of the push	int		In bps

#### 4. Example

Purpose: To query the list of files recorded during the LVB for the LVB stream with an LVB Code of 8888\_test123.

Component	Example
API URL	<a href="http://statcgi.video.qcloud.com/common_access?">http://statcgi.video.qcloud.com/common_access?</a>
cmd	1234
interface	Get_LivePushStatHistory
Param.n.start_time	1453279831
Param.n.end_time	1453279835

Component	Example
Param.s.stream_id	1234_xxx
t	1471850187
sign	b17971b51ba0fe5916ddcd96692e9fb3

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "cmd is invalid".*

URL = `http://statcgi.video.qcloud.com/common_access?`

`cmd=1234&interface=Get_LivePushStatHistory`

`&Param.n.start_time =1453279831`

`&Param.n.end_time =1453279835`

`&Param.s.stream_id =1234_xxx`

`&t=1471850187`

`&sign=b17971b51ba0fe5916ddcd96692e9fb3`

# Get Play Statistics History Info

Last updated : 2018-07-10 17:05:16

## 1. API Description

### • API

This API (**Get\_LivePlayStatHistory**) is used to obtain the historical statistics of playback.

### • URL

URL for calling API: `http://statcgi.video.qqcloud.com/common_access`

### • Note

- Used to obtain the playback information for specified time period.
- The playback statistics is updated every 1 minute.
- This API supports LVB code mode and channel mode.
- Backend configuration is required to use the API. To call the API, contact Tencent service personnel or [submit a ticket](#). Tel: 4009-100-100.

## 2. Input Parameters

Parameter Name	Description	Type	Note	Required
cmd	Business ID	int	The LVB appid, which is used to identify different customers	Y
interface	API name	string		Y
t	Expiration timestamp	int		Y
sign	Signature	string	md5 (key+expiration timestamp)	Y
Param.n.start_time	Start time for the query	int	Limited to the last 15 days from the timestamp	Y
Param.n.end_time	End time	int	It is recommended to limit the timestamp between start and end times to 2 hours	Y
Param.s.stream_id	Steam ID	string	If it is left empty, the total bandwidth is obtained	N
Param.s.domain	Domain name	String	If it is left empty, all the data under the APPID is obtained. The original playback domain name before cname is required	N

## 3. Output Parameters

Parameter Name	Description	Type	Remarks	Note
ret	Error code	int	0: Successful; other values: Failed.	
message	Error message	string	Error message	
output	Message content	array	For more information, please see the description below.	-

"output" is composed as follows:

Parameter Name	Description	Type	Remarks	Note
stat_info	Statistics for the LVB stream	array		
sum_info	Traffic and summation information	array		Required output parameter
domain	Domain Name	string		Optional output parameter
stream_id	Stream ID	string		Optional output parameter

"stat\_info" is composed as follows:

Parameter Name	Description	Type	Remarks	Note
time	Statistical time	string		
bandwidth	Bandwidth	double		In Mbps
online	Number of online users	int		
flux	Traffic	double		In MB

"sum\_info" (summary) is composed as follows:

Parameter Name	Description	Type	Remarks	Note
sum_flux	Traffic summation	double	Required output parameter	In MB

#### 4. Example



Purpose: To query the list of files recorded during the LVB for the LVB stream with an LVB Code of 8888\_test123.

Component	Example
API URL	<code>http://statcgi.video.qcloud.com/common_access?</code>
cmd	1234
interface	Get_LivePlayStatHistory
Param.n.start_time	1453279831
Param.n.end_time	1453279835
Param.s.stream_id	1234_xxx
Param.s.domain	www.123test.com
t	1471850187
sign	b17971b51ba0fe5916ddcd96692e9fb3

*//When copying them, remove the invisible line breaks used for improving layout. Otherwise, URL construction errors may occur, such as "cmd is invalid".*

URL = `http://statcgi.video.qcloud.com/common_access?`

`cmd=1234&interface=Get_LivePlayStatHistory`

`&Param.n.start_time =1453279831`

`&Param.n.end_time =1453279835`

`&Param.s.stream_id =1234_xxx`

`&Param.s.domain=www.123test.com`

`&t=1471850187`

`&sign=b17971b51ba0fe5916ddcd96692e9fb3`

# Channel Hosting (old)

## Call Method

## Request Body

Last updated : 2018-07-10 17:26:19

### 1. Service Address

The domain name for the Tencent Cloud LVB service is `live.api.qcloud.com`.

### 2. Communication Protocol

All the Tencent Cloud APIs communicate over HTTPS to provide high-security channels.

### 3. Request Methods

POST and GET requests are both supported, but cannot be used at the same time. If the GET method is used, the parameters are obtained from Querystring. If the POST method is used, the parameters are obtained from Request Body, and the parameters in the Querystring are ignored. The request parameters are organized in the same way in both types of requests. Generally, GET method is used. If the parameter strings are too long, POST method is used. For more information, please see the relevant API description.

### 4 Character Encoding

UTF-8 encoding is always used.

### 5. API Request Structure

Name	Description	Notes
API entry	The Webservice entry for calling API	<a href="https://live.api.qcloud.com/v2/index.php">https://live.api.qcloud.com/v2/index.php</a>
Common parameters	The parameters common to all the APIs	For more information, please see "6. Common Parameters" section in this document.

Instruction name	Name of the instruction to be executed by API, specified with Action. For example, Action=CreateLVBChannel	For more information on complete instructions, please see <a href="#">API Overview</a>
Instruction parameters	Parameters required for each specific instruction	For more information, please see the API document of each instruction.

## 6. Common Parameters

Common parameters are used for user identification and API authentication. Unless necessary, these parameters will not be discussed in each API document. A request that comes with these parameters can be initiated successfully.

Name	Type	Description	Required
Action	String	Name of API instruction, for example: DescribeDomains	Yes
Region	String	Region parameter, which is used to identify the region to which the instance you want to work with belongs. Available values: bj: Beijing gz: Guangzhou sh: Shanghai hk: Hong Kong ca: North America	Yes
Timestamp	UInt	Current Unix timestamp	Yes
Nonce	UInt	A random positive integer, which is used in conjunction with Timestamp to prevent replay attacks.	Yes
SecretId	String	SecretId and SecretKey used for identification and applied for through the Tencent Cloud platform. SecretKey is used to generate a Signature. For more information, please see <a href="#">API Authentication</a> page.	Yes
Signature	String	Request signature, which is used to verify the validity of the request. For more information, please see <a href="#">API Authentication</a> page.	Yes

The following shows a typical API request. "Action=DescribeInstance" indicates a query for the details of the CVM instance.

```
https://domain/v2/index.php?Action=DescribeInstances  
&SecretId=xxxxxxx  
&Region=gz  
&Timestamp=1402992826  
&Nonce=345122  
&Signature=mysignature  
&instanceId=101
```

instanceId is an instruction parameter, and others are common parameters.

# Backend SDK

Last updated : 2018-07-24 15:27:33

## Calling Method

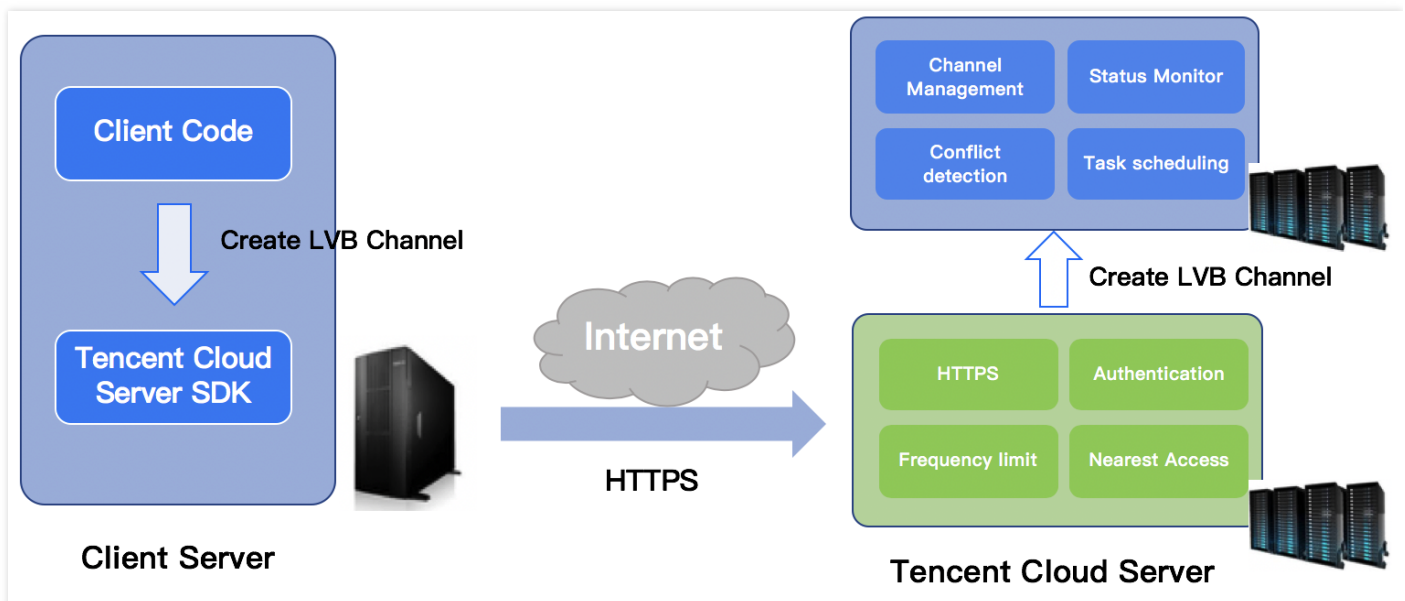
How to connect to Tencent Cloud CVM is a problem we need to solve first. Tencent Cloud server cluster contains two layers:

- **Access layer:**

It is responsible to access the external request for calling. For example, to limit the call frequency to 100 times per minute, or to verify the identity of the Tencent Cloud client server (based on SecretId and SecretKey).

- **Function layer:**

It "hides" behind the access layer. Since the security confirmation and attack blocking have been implemented at the access layer, all the function layer needs to do is functional processing. The basic features such as channel management and file query are implemented at this layer.



To call the Tencent Cloud server API, your server needs to meet the requirements of the access layer:

- The request protocol must be HTTPS
- The request header must conform to Tencent Cloud's access format
- The request header must contain correct SecretId and Signature

Therefore...

## Server SDK

[Tencent Cloud Server SDK](#) is recommended. Versions compiled in the following languages are available:

- PHP
- Python
- Java
- .Net
- Node.js

These SDKs are designed to help you connect to the Tencent Cloud CVM in the simplest way and to protect the intermediate linkage from attack by ensuring its security and reliability.

## Troubleshooting

An error code may be returned if you call the Tencent Cloud server API. It consists of "code", which is Tencent Cloud's **access layer error code**, and "message", which represents the detailed description of the error code.

### unicode

```
{"code":4600,"message":"\u534f\u8bae\u4e0d\u652f\u6301\u53c2\u8003\u6587\u6863\u8bf4\u660e\u3002"}
```

"message" is displayed as an Unicode string in some platforms, which can be directly escaped in Chrome browser.

Open Chrome, press F12 to enter the developer mode, and input the following content in Console panel at the bottom right corner:

```
"\u534f\u8bae\u4e0d\u652f\u6301\u53c2\u8003\u6587\u6863\u8bf4\u660e\u3002"
```

"The protocol is not supported. For more information, please see the relevant document." is returned after escape.

### Dual Error Codes

Generally, messages are written in standard English, as shown below:

```
{"code":5100,"message":"20108:Channel is not in an editable status"}
```

You can see two error codes here:

- **5100**: This error code is returned from the access layer. For example, 4100 refers to authentication error (that is, verification failed in Tencent Cloud backend system because SecretId and Signature you entered in the request header is incorrect). In this case, your request is blocked at the access layer instead of being sent to the function layer.

The error code 5100 is special. It means that "No error occurs during security check at the access layer. A message from the function layer indicates that there is an error with your request."

- **20200**: This error code is returned via a specific function module from the function layer. For example, 20108 indicates "Channel is not in an editable status", which means that your request is being processed in LVB system. However, a specific error notification is returned because the system considers that there is an error with your request.

For more information, please see [Error Codes](#).

# Return Results

Last updated : 2018-07-10 17:26:53

## Composition of Returned Values

Unless otherwise specified, the returned values of each request contain the following fields:

Name	Type	Description	Required
code	Int	Error code on the result. 0: Successful; other values: Failed. For meanings of error codes, please see the <a href="#">Error Codes</a> page.	Yes
message	String	Request result	Yes

For example:

Example requests that use common parameters:

```
https://live/v2/index.php?Action=DescribeInstances&SecretId=xxxxxxx&Region=gz
&Timestamp=1402992826&Nonce=345122&Signature=mysignature&instanceId=101
```

Possible returned result is as follows:

```
{
  "code":0,
  "message": "success",
  "instanceSet":
  [{
    "instanceId":"qcv1234",
    "cpu":1,
    "mem":2,
    "disk":20,
    "bandwidth":65535,
    "os":"centos_62_64",
    "lanIp":"10.207.248.186",
    "wanIp":null,
    "status":0
  }]
}
```

## Error Codes



The error code in the response body summarizes the result of the calling and execution of a Tencent Cloud API.

Any error code other than 0 indicates the request is not properly executed. An error message describes the error in details. You can get the API execution result based on the error code.

On some terminals, such as browsers, messages in Chinese are displayed in Unicode and need to be decoded.

**The following error codes may be returned by Tencent Cloud APIs:**

Error Code	Error Type	Description
4000	Invalid request parameter	Required parameter is missing, or parameter value is in an incorrect format. For error message, please see the "message" field in error description.
4100	Authentication failed	Signature authentication failed. For more information, please see the "Authentication" section in the document.
4200	Request expired	The request has expired. For more information, please see the "Request Validity" section in the document.
4300	Access denied	Account is blocked or not within the user range of the API.
4400	Quota exceeded	The number of requests exceeded the quota limit. For more information, please see the "Request Quota" section in the document.
4500	Replay attack	The Nonce and Timestamp parameters ensure that each request is executed only once on the server. Therefore, the Nonce value cannot be the same as the last one, and the difference between Timestamp and Tencent server time cannot be greater than 2 hours.
4600	Unsupported protocol	The protocol is not supported. For more information, please see the relevant document.
5000	Resource does not exist	The instance corresponding to the resource ID does not exist, or the instance has been returned, or another user's resource is accessed.
5100	Resource operation failed	The operation performed on the resource failed. For error message, please see the "message" field in error description. Try again later or contact customer service.
5200	Failed to purchase the resource	The resource purchase failed. This may be caused by unsupported instance configuration or insufficient resource.
5300	Failed to purchase the resource	The resource purchase failed because of insufficient balance.
5400	Part of	The batch operation was successful on some resources. For more

	operations performed successfully	information, please see the returned value of the method.
5500	User failed to pass identity verification	The resource purchase failed because the user failed to pass identity verification.
6000	Internal error with the server	An internal error occurred with the server. Try again later or contact customer service.
6100	Not supported in the version	This API is not supported in this version or is under maintenance. Note: When this error occurs, check whether the domain name for the API is correct. Domain name may vary with different modules.
6200	API is unavailable	The API is under maintenance and is unavailable. Try again later.

## Format of Returned Results for Asynchronous Task APIs

### 1. Format of returned results for common asynchronous task APIs

With such asynchronous task APIs, only one resource can be operated for each request, for example, creating load balancer or resetting OS for server.

Name	Type	Description	Required
code	Int	Error code on the result. 0: Successful; other values: Failed.	Yes
message	String	Error message on the result	No
requestId	String	Task ID	Yes

### 2. Format of returned results for batch asynchronous task APIs

With such asynchronous task APIs, multiple resources can be operated for each request, for example, changing passwords, starting or shutting down servers.

Name	Type	Description	Required
code	Int	Error code on the result. 0: Successful; other values: Failed.	Yes
message	String	Error message on the result	No
detail	Array	The code, message, and requestId for an operation performed on the resource based on the resource ID (key).	Yes

For example:

```
{
  "code":0,
  "message": "success",
  "detail":
  {
    "qcvm6a456b0d8f01d4b2b1f5073d3fb8ccc0":
    {
      "code":0,
      "message": "",
      "requestId": "1231231231231";
    }
    "qcvm6a456b0d8f01d4b2b1f5073d3fb8ccc0":
    {
      "code":0,
      "message": "",
      "requestId": "1231231231232";
    }
  }
}
```

Note:

If the operations are successful for all resources, the outermost code is 0.

If the operations fail for all resources, the outermost code returns 5100.

If the operations fail for some resources, the outermost code returns 5400.

In the third case, the terminal can obtain the information about the failed operations via "detail" field.

## Sample Code

### 1. Download SDK code

[Sample Code in PHP](#)

[Sample Code in JAVA](#)

[Sample Code in Python](#)

[Sample Code in .NET](#)

Replace the YOUR\_SECRET\_ID and YOUR\_SECRET\_KEY in the sample code with the actual SecretId and SecretKey.

The sample code is for reference only. Please use the code based on your actual needs.

## 2. Sample code in PHP

```
<?php

/*****In practice, the following parameters need to be changed based on the APIs called.*****/
*****/

/*****The DescribeInstances is taken as an example to describe how to obtain the cloud server with the specified instanceId.*****/

/*The URL of the API DescribeInstances is cvm.api.qcloud.com, which can be obtained from the "1. API Description" section of the API document.*/
$HttpUrl="cvm.api.qcloud.com";

/*Unless otherwise specified, all APIs other than MultipartUploadVodFile support GET and POST methods.*/
$HttpMethod="GET";

/*Most APIs are based on HTTPS protocol, except such APIs as MultipartUploadVodFile.*/
$isHttps =true;

/*Your key is required. You can obtain SecretId and $secretKey from https://console.cloud.tencent.com/capi.*/
$secretKey='XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX';

/*The following five parameters are the common parameters of all APIs. For some APIs that are not region-specific (e.g. DescribeDeals), the Region parameter is not required.*/
$COMMON_PARAMS = array(
'Nonce'=> rand(),
'Timestamp'=>time(NULL),
'Action'=>'DescribeInstances',
'SecretId' => 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX',
'Region' =>'gz',
);

/*The following two parameters are the ones specific to the API DescribeInstances and are used to query the specific CVM list.*/
$PRIVATE_PARAMS = array(
'instanceIds.0'=> 'qcvm00001',
'instanceIds.1'=> 'qcvm00002',
);

/*****/
```

```
CreateRequest($HttpUrl,$HttpMethod,$COMMON_PARAMS,$secretKey, $PRIVATE_PARAMS, $isHttps);
```

```
function CreateRequest($HttpUrl,$HttpMethod,$COMMON_PARAMS,$secretKey, $PRIVATE_PARAMS, $isHttps)
{
    $FullHttpUrl = $HttpUrl."/v2/index.php";

    /*Sort the request parameters in ascending lexicographical order by their names on a case-sensitive basis.*/
    $ReqParaArray = array_merge($COMMON_PARAMS, $PRIVATE_PARAMS);
    ksort($ReqParaArray);

    /*Generate the original signature text.*/
    * Combine the request method, URL and sorted request parameters into the following format to generate the original signature text. In this example, the original signature text is as follows:
    * GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances&Nonce=345122&Region=gz
    * &SecretId=AKIDz8krbsJ5yKBZQ·1pn74WFkmLPx3gnPhESA&Timestamp=1408704141
    * &instanceIds.0=qcvm12345&instanceIds.1=qcvm56789
    * */
    $SigTxt = $HttpMethod.$FullHttpUrl."?";

    $isFirst = true;
    foreach ($ReqParaArray as $key => $value)
    {
        if (!$isFirst)
        {
            $SigTxt = $SigTxt."&";
        }
        $isFirst= false;

        /*In the combination of original signature text, any "_" in a parameter name should be replaced with ".".*/
        if(strpos($key, '_'))
        {
            $key = str_replace('_', '.', $key);
        }

        $SigTxt=$SigTxt.$key."=".$value;
    }

    /*Generate a Signature based on the original signature string $SigTxt*/
    $Signature = base64_encode(hash_hmac('sha1', $SigTxt, $secretKey, true));

    /*Combine the request strings together. The request parameters and the signature string need to be encoded using urlencode.*/

```

```
$Req = "Signature=".urlencode($Signature);
foreach ($ReqParaArray as $key => $value)
{
$Req=$Req."&".$key."=".urlencode($value);
}

/*****Send the request*****/
if($HttpMethod === 'GET')
{
if($isHttps === true)
{
$Req="https://".$FullHttpUrl."?".$Req;
}
else
{
$Req="http://".$FullHttpUrl."?".$Req;
}

$Rsp = file_get_contents($Req);

}
else
{
if($isHttps === true)
{
$Rsp= SendPost("https://".$FullHttpUrl,$Req,$isHttps);
}
else
{
$Rsp= SendPost("http://".$FullHttpUrl,$Req,$isHttps);
}
}

var_export(json_decode($Rsp,true));
}

function SendPost($FullHttpUrl,$Req,$isHttps)
{
$ch = curl_init();
curl_setopt($ch, CURLOPT_POST, 1);
curl_setopt($ch, CURLOPT_POSTFIELDS, $Req);

curl_setopt($ch, CURLOPT_URL, $FullHttpUrl);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
if ($isHttps === true) {
curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, false);
```

```
curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, false);  
}  
  
$result = curl_exec($ch);  
  
return $result;  
}
```

# Signature Method

Last updated : 2018-07-10 17:25:39

Tencent Cloud API authenticates each access request, so each request is required to include the Signature in the common request parameters for user identity authentication. The signature is generated with user's security credentials, which consist of a SecretId and a SecretKey. If you don't have security credentials, apply for the credentials from the Tencent Cloud official website. Otherwise, you will not be able to call the cloud APIs.

## 1. Apply for Security Credentials

Before calling the Cloud API for the first time, user needs to apply for security credentials on the Tencent Cloud console. Security credentials consists of a SecretId, which is used to identify an API caller, and a SecretKey, which is used to encrypt the signature string and verify its key on the server. Users must keep their SecretKeys private to avoid disclosure.

Apply for security credentials by following the steps below:

(1) Log in to the [Tencent Cloud Console](#).

(2) Click **Cloud Products**, and select **Cloud API Key** under **Monitor and Management** to go to the cloud API key management page.



(3) On the [Cloud API Key Management](#) page, click **New** to create a pair of SecretId/SecretKey. Each account can have two pairs of SecretId/SecretKey at most.

## 2. Generate the Signature String



With the SecretId and SecretKey, a signature string can be generated. The following shows how to generate a signature:

Suppose that you have the following SecretId and SecretKey:

```
SecretId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA
SecretKey: Gu5t9xGARNpq86cd98joQYCN3Cozk1qA
```

**Note: This information is only for demonstration purpose. Make sure you proceed with your actual SecretId and SecretKey.**

Take [View Instance List](#) (DescribeInstances) as an example. The possible request parameters are as follows when this API is called:

Parameter Name	Description	Parameter Value
Action	Method name	DescribeInstances
SecretId	Key ID	AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA
Timestamp	Current timestamp	1465185768
Nonce	A random positive integer	11886
Region	The region where the instance resides	gz
instanceIds.0	ID of the instance to be queried	ins-09dx96dg
offset	Offset	0
limit	Maximum number of output results	20

According to the above table, among the request parameters, there are only 5 common request parameters (Action, SecretId, Timestamp, Nonce and Region), instead of 6 ones as described in "Common Request Parameters". Actually, Signature (the sixth one) is generated from other parameters (including the instruction request parameters) using the following procedure:

## 2.1. Sort parameters

First, sort all the request parameters in an ascending lexicographical order by their names, just like sorting words in a dictionary in ascending alphabetical order or numerical order. That is to say, sort the parameters by their first letters, then by their second letters if their first letters are the same, and so on. You can complete the

sorting process using relevant sorting functions in programming language, such as the ksort function in PHP. The parameters in the example are sorted as follows:

```
{
  'Action' : 'DescribeInstances',
  'Nonce' : 11886,
  'Region' : 'gz',
  'SecretId' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA',
  'Timestamp' : 1465185768,
  'instanceIds.0' : 'ins-09dx96dg',
  'limit' : 20,
  'offset' : 0,
}
```

Any other programming language can be used to sort these parameters as long as the same result is produced.

## 2.2. Construct the request string

This step is used to generate the request string.

Format the request parameters sorted in the previous step as "parameter name"="parameter value". For example, if the parameter value of "Action" is "DescribeInstances", the resulting format is Action=DescribeInstances.

**Note: 1. "Parameter value" is the original value, instead of the URL encoded value. 2. Any underscore in the Key of input parameter needs to be replaced with ".".**

Then, join the formatted parameters together with "&" to generate the final request string:

```
Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3gnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0
```

## 2.3. Construct the original signature string

This step is used to generate the original signature string.

The original signature string is composed of the following parameters:

- (1) Request method: The POST and GET methods are supported. In this case, a GET request is used. The methods must be in upper-case.
- (2) Request CVM: The request domain name for [View Instance List](#) (DescribeInstances) is cvm.api.qcloud.com. The actual request domain name varies with the module to which the API belongs. For more information, please see the relevant API description.
- (3) Request path: The request path of cloud API is always /v2/index.php.
- (4) Request string: The request string generated in the previous step.

The original signature string is constructed as follows:

```
Request Method + Request CVM + Request Path + ? + Request String
```

The resulting string is:

```
GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmlPx3gnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0
```

## 2.4. Generate the signature string

This step is to generate the signature string.

Sign the **original signature string** obtained in the previous step using HMAC-SHA1 algorithm, and then encode the signature string using Base64 to obtain the final signature string.

For example, the code is as follows if written in PHP:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3Cozk1qA';  
$srcStr = 'GETcvm.api.qcloud.com/v2/index.php?Action=DescribeInstances&Nonce=11886&Region=gz&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmlPx3gnPhESA&Timestamp=1465185768&instanceIds.0=ins-09dx96dg&limit=20&offset=0';  
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));  
echo $signStr;
```

The resulting signature string is as follows:

```
NSI3UqqD99b/UJb4tbG/xZpRW64=
```

If another programming language is used, the original signature string in the above example can be used for verification, as long as the signature string generated is the same as the one in the example.

## 3. Encode the Signature String

The generated signature string cannot be directly used as the request parameter, and needs to be URL encoded.

**Note: If the GET method is used, all request parameters need to be encoded with URL encoding.**

For example, the signature string generated in the previous step NSI3UqqD99b/UJb4tbG/xZpRW64= is converted to NSI3UqqD99b/UJb4tbG/xZpRW64= after being encoded. The resulting request parameter for signature string (Signature) is NSI3UqqD99b/UJb4tbG/xZpRW64=, which will be used to generate the final request URL.

# Server API

## API Overview

Last updated : 2018-07-10 17:08:00

Feature	Action ID
Creates an LVB channel	<a href="#">CreateLVBChannel</a>
Queries LVB channel list	<a href="#">DescribeLVBChannelList</a>
Queries LVB channel details	<a href="#">DescribeLVBChannel</a>
Modifies an LVB channel	<a href="#">ModifyLVBChannel</a>
Starts LVB channels in batch	<a href="#">StartLVBChannel</a>
Stops LVB channels in batch	<a href="#">StopLVBChannel</a>
Deletes an LVB channel	<a href="#">DeleteLVBChannel</a>
Creates a recording task	<a href="#">CreateRecord</a>
Terminates a recording task	<a href="#">StopRecord</a>
Queries recorded files (recommended)	<a href="#">GetVodRecordFiles</a>
Queries the list of recorded fragments	<a href="#">DescribeRecord</a>
Creates a screenshot task	<a href="#">CreateLVBShot</a>
Terminates a screenshot task	<a href="#">StopLVBShot</a>
Queries queue messages	<a href="#">DescribeQueueLog</a>
Deletes a recording task	<a href="#">DeleteRecord</a>
Deletes a screenshot task	<a href="#">DeleteLVBShot</a>
Queries the list of recording tasks	<a href="#">DescribeRecordList</a>
Queries the list of screenshot tasks	<a href="#">DescribeLVBShotList</a>

# Create Live Channel

Last updated : 2018-07-10 17:11:02

## Creating a Channel

### 1. API description

Domain name: live.api.qcloud.com

### 2. Input parameters

Parameter Name	Required	Type	Description
channelName	Yes	String	Channel name
channelDescribe	No	string	LVB channel description
outputSourceType	Yes	int	Select an output source. 1: RTMP output only; 2: HLS output only; 3: Both RTMP and HLS output.
playerPassword	No	string	Password for the receiver's player.
sourceList	Yes	array	An LVB source list. Each LVB source may contain the type, name, and address (limited to stream pulling). Note: Only one LVB source is supported.
watermarkId	No	int	Watermark ID
outputRate	No	array	Output bitrate. Note: For the parameter array, 0 indicates the original bitrate, 10 indicates a bitrate of 550 (standard definition), and 20 indicates a bitrate of 900 (high definition). The value 0 is required if you need to set the bitrate.

The sourceList structure is as follows:

Parameter Name	Required	Type	Description
name	Yes	string	LVB source name
type	Yes	int	1: RTMP push

### 3. Output parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message
channel_id	String	Channel ID

## 4. Examples

Input (RTMP push)

```
https://domain/v2/index.php?Action=CreateLVBChannel&channelName=国际乒乓球锦标赛3&outputSourceType=2&so
```

Output

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "channel_id": "XXX",
  "channelInfo": {
    "upstream_address": "rtmp://2000.livepush.myqcloud.com/live/YYYYYYYYYYYYYYYYYY?bizid2000",
    "downstream_address": {
      "rate_type": 0,
      "hls_downstream_address": "http://2000.liveplay.myqcloud.com/live/XXX.m3u8",
      "rtmp_downstream_address": "rtmp://2000.liveplay.myqcloud.com/live/XXX",
      "flv_downstream_address": "http://2000.liveplay.myqcloud.com/live/XXX.flv"
    }
  }
}
```

## 5. Standard parameter definitions

Channel status definitions:

Value	Status
0	No input stream
1	LVB in progress
2	Exception
3	Disable

Receiver type definitions:

Type	Description
1	RTMP output
2	HLS output
3	RTMP and HLS output

LVB stream protocol definitions:

Type	Description
1	RTMP push
2	RTMP pull
3	HLS pull

# Change Live Channel

Last updated : 2018-07-10 17:08:54

## 1. API Description

Domain name: live.api.qcloud.com

This API (ModifyLVBChannel) is used to modify the basic information of LVB channels, including the channel name and description.

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelId	Yes	Unsigned integer	Channel ID
channelName	Yes	String	LVB channel name
channelDescribe	No	String	LVB channel description

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message

## 4. Example

Input 1

```
https://domain/v2/index.php?Action=ModifyLVBChannel&channelId=96171715553394807&channelName=test-15&channelDescribe=第15个测试频道用例&Common request parameters
```

Output 1



```
{  
  "code" : 0,  
  "message" : "",  
}
```

## 5. Standard Parameter Definitions

Channel status definitions:

Value	Status
0	No input stream
1	LVB in progress
2	Exception
3	Disable

Receiver type definitions:

Type	Description
1	RTMP output
2	HLS output
3	RTMP and HLS output

LVB stream protocol definitions:

Type	Description
1	RTMP push
2	RTMP pull
3	HLS pull

# Delete Live Channel

Last updated : 2018-07-10 17:13:31

## 1. API Description

Domain name: live.api.qcloud.com

This API (DeleteLVBChannel) is used to enter the ID of an LVB channel to delete the channel (channels can be deleted in batch).

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelIds	Yes	Array	Channel ID value, batch operation supported. See examples for how to use

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message

## 4. Example

Input 1

```
https://domain/v2/index.php?Action=DeleteLVBChannel&channelIds.1=96171715553394807&Common request param
```

Output 1

```
{  
  "code" : 0,  
}
```

```
"message" : "",  
}
```

## 5. Standard Parameter Definitions

Channel status definitions:

Value	Status
0	No input stream
1	LVB in progress
2	Exception
3	Disable

Receiver type definitions:

Type	Description
1	RTMP output
2	HLS output
3	RTMP and HLS output

LVB stream protocol definitions:

Type	Description
1	RTMP push
2	RTMP pull
3	HLS pull

# Enable Live Channel

Last updated : 2018-07-10 17:15:39

## 1. API Description

Domain name: live.api.qcloud.com

This API (StartLVBChannel) is used to enter the ID of an LVB channel to start the channel (channels can be started in batch).

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelIds	Yes	Array	Channel ID value, batch operation supported. See examples for how to use

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message

## 4. Example

Input 1

```
https://domain/v2/index.php?Action=StartLVBChannel&channelIds.1=96171715553394807&Common request param
```

Output 1

```
{
  "code" : 0,
  "message" : "",
}
```

## 5. Standard Parameter Definitions

Channel status definitions:

Value	Status
0	No input stream
1	LVB in progress
2	Exception
3	Disable

Receiver type definitions:

Type	Description
1	RTMP output
2	HLS output
3	RTMP and HLS output

LVB stream protocol definitions:

Type	Description
1	RTMP push
2	RTMP pull
3	HLS pull

# Disable Live Channel

Last updated : 2018-07-10 17:14:16

## 1. API Description

Domain name: live.api.qcloud.com

This API (StopLVBChannel) is used to enter the ID of an LVB channel to stop the channel (channels can be stopped in batch).

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelIds	Yes	Array	Channel ID value, batch operation supported. See examples for how to use

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message

## 4. Example

Input 1

```
https://domain/v2/index.php?Action=StopLVBChannel&channelIds.1=96171715553394810&Common request paramet
```

Output 1

```
{
  "code" : 0,
  "message" : "",
}
```

## 5. Standard Parameter Definitions

Channel status definitions:

Value	Status
0	No input stream
1	LVB in progress
2	Exception
3	Disable

Receiver type definitions:

Type	Description
1	RTMP output
2	HLS output
3	RTMP and HLS output

LVB stream protocol definitions:

Type	Description
1	RTMP push
2	RTMP pull
3	HLS pull

# Query Live Channel List

Last updated : 2018-07-10 17:18:43

## 1. API Description

Domain name: live.api.qcloud.com

This API (DescribeLVBChannelList) is used to obtain all LVB channel information of a user, including channel ID, current status, name, and creation time.

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelStatus	No	Unsigned integer	Channel status, used to filter channel list (0: without input stream; 1: with input stream; 2: exception; 3: closed; 4: incomplete configuration)
ascDesc	No	Unsigned integer	Order the results are in. By default, the results are sorted by creation time. 0: by time in an ascending order; 1: by time in a descending order.
pageNo	No	Unsigned integer	Page number. For example, to view the list in page 3, set the value to 3.
pageSize	No	Unsigned integer	The number of channels displayed on each page.
orderBy	No	String	By default, the results are sorted by the channel creation time.

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message
all_count	int	Total number of channels



channelSet

Array

Channel list

## 4. Example

Input 1

```
https://domain/v2/index.php?Action=DescribeLVBChannelList&channelStatus=0&ascDesc=1&pageNo=1&pageSize=1
```

Output 1

```
{
  "code": 0,
  "message": "",
  "all_count": "2",
  "channelSet": [
    {
      "channel_id": "96171715553394811",
      "channel_name": "World Table Tennis Championships 3",
      "channel_status": "0",
      "create_time": "2015-07-23 20:05:52"
    },
    {
      "channel_id": "96171715553394810",
      "channel_name": "World Table Tennis Championships 2",
      "channel_status": "0",
      "create_time": "2015-07-23 19:54:05"
    }
  ]
}
```

## 5. Standard Parameter Definitions

Channel status definitions:

Value	Status
0	No input stream
1	LVB in progress
2	Exception

3	Disable
---	---------

Receiver type definitions:

Type	Description
1	RTMP output
2	HLS output
3	RTMP and HLS output

LVB stream protocol definitions:

Type	Description
1	RTMP push
2	RTMP pull
3	HLS pull

# Query Live Channel Details

Last updated : 2018-07-10 17:19:43

## 1. API Description

Domain name: live.api.qcloud.com

This API (DescribeLVBChannel) is used to enter the ID number of a channel to be queried to get its current status, name, description, LVB source, and output source information.

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelId	Yes	Unsigned integer	Channel ID

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message
channelInfo	Array	Channel information, such as its current status, name, description, LVB source, and output source information.

## 4. Example

Input 1

```
https://domain/v2/index.php?Action=DescribeLVBChannel&channelId=96171715553394807&Common request param
```

Output 1

```
{  
  "code": 0,
```

```

"message": "",
"channelInfo": [
{
"channel_id": "XXX",
"channel_name": "XXX",
"channel_describe": "XXX",
"channel_status": "1",
"upstream_list": [
{
"sourceName": "RTMP",
"sourceID": "YYYYYYYYYYYY",
"sourceType": "1",
"sourceAddress": "rtmp://2000.livepush.myqcloud.com/live/YYYYYYYYYYYYYYYYYYY?bizid2000"
}
],
"hls_downstream_address": "",
"rtmp_downstream_address": "rtmp://2000.liveplay.myqcloud.com/live/XXX",
"player_id": "226",
"resolution": null,
"password": null
}
]
}

```

## 5. Standard Parameter Definitions

Channel status definitions:

Value	Status
0	No input stream
1	LVB in progress
2	Exception
3	Disable

Receiver type definitions:

Type	Description
1	RTMP output
2	HLS output

3	RTMP and HLS output
---	---------------------

LVB stream protocol definitions:

Type	Description
1	RTMP push
2	RTMP pull
3	HLS pull

# Create Recording Task

Last updated : 2018-07-18 17:08:48

## 1. API Description

Domain name: live.api.qcloud.com

Note: **This API (CreateRecord) is used to store recorded files on the VOD platform. If you want to use the recording feature, you need to activate VOD Service first.** When recording files are stored, the charges (including charges for storage and downstream playback traffic) are calculated with VOD billing method. For more information, please see [relevant document](#). Note: API calling timeout should be greater than 3 seconds, because retries within 3 seconds and frequent calls may lead to duplicate recording tasks.

Recording rules

- (1) The recording task starts at the preset time and ends when the LVB ends
  - (2) The recording is fragmented by time, and the longest fragment time is 0.5 hour
  - (3) The recording is stopped and a fragment is generated in case of a stream interruption
- A new fragment recording task is started after the stream is resumed to repeat the preceding steps until the entire recording is completed

Fragment recording request URL format: `http://(VOD bizid).vod.myqcloud.com/(vid).f0.flv`

Or view the fragment on the VOD page

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelId	Yes	String	Channel ID
startTime	Yes	String	Start time (China Standard Time), such as 2017-01-01 10:10:01
endTime	Yes	String	End time (China Standard Time), such as 2017-01-01 10:10:01
tapeType	Yes	Int	Whether to enable real-time recording. 1 - Enable; 0 - Disable; 1 is recommended. a. Creating real-time recording tasks requires that VJs push streams actively. The video recording starts at the moment when this API is successfully called. In this case, the parameter of task start time is ignored. b. The real-time recording task supports a maximum length of 30 minutes. If the time difference between the passed task end time

and the current time is longer than 30 minutes, only a length of 30 minutes is recorded. The recommended recording length is within 5 minutes.

c. If real-time recording is disabled, the parameter of task start time is required, and the time difference between the end time and the start time should not be longer than 1 day.

### 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message
task_id	Int	Task ID. 64-bit unsigned integer

### 4. Example

#### Input 1

```
http://domain/v2/index.php?Action=CreateRecord&channelId=123&tapeType=1&endTime=2016-01-21 12:00:00&Com
```

#### Output 1

```
{
  "code": 0,
  "message": "",
  "task_id": 1
}
```

# End Recording Task

Last updated : 2018-07-10 17:20:33

## 1. API Description

Domain name: live.api.qcloud.com

Note: This API (StopRecord) is used to store recorded files on the VOD platform. If you want to use the recording feature, you need to activate a VOD account first and ensure that the account is available. When recording files are stored, the charges (including charges for storage and downstream playback traffic) are calculated with VOD billing method. For more information, please see [relevant document](#).

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelId	Yes	String	Channel ID
taskId	Yes	Int	Task ID

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message

## 4. Example

Input 1

```
http://domain/v2/index.php?Action=StopRecord&channelId=123&taskId=1&Common request parameters
```

Output 1



```
{  
  "code": 0,  
  "message": "",  
}
```

# Delete Recording Task

Last updated : 2018-07-10 17:11:48

## 1. API Description

Domain name: live.api.qcloud.com

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelId	Yes	String	Channel ID
taskId	Yes	Int	Task ID

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message

## 4. Example

Input 1

```
http://domain/v2/index.php?Action=DeleteRecord&channelId=123&taskId=1&Common request parameters
```

Output 1

```
{  
  "code": 0,  
  "message": "",  
}
```

# Query Recording Task List

Last updated : 2018-07-10 17:16:54

## 1. API Description

Domain name: live.api.qcloud.com

Note: **This API (DescribeRecordList) is used to query files recorded in the last two months.**

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelId	Yes	String	Channel ID
pageNo	No	Int	Page number. Default is 1
pageSize	No	Int	Page size. Default is 10

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message
totalCount	Int	Total number
taskSet	Array	Task result set

The file information is composed as follows:

Parameter Name	Type	Description
id	Int	Task ID
startTime	String	Time when the fragmentation process starts
endTime	String	Time when the fragmentation process ends

status	Int	Task status. 0 - Not started, 1 - Starting, 2 - Completed, 3 - Exception
count	Int	Number of generated fragments

## 4. Example

### Input 1

```
http://domain/v2/index.php?Action=DescribeRecordList&channelId=16093104850681751595&pageSize=10&pageNo=
```

### Output 1

```
{
  "code": 0,
  "message": "",
  "totalCount": 2,
  "taskSet": [
    {
      "id": "16093104850681751583",
      "startTime": "7",
      "endTime": "720",
      "status": "0"
    },
    {
      "id": "16093104850681751599",
      "startTime": "8",
      "endTime": "1806",
      "status": "2"
    }
  ]
}
```

# Query Recording File (Recommended)

Last updated : 2018-07-10 17:17:34

## 1. API Description

Domain name: live.api.qcloud.com

Notes:

1. This API (GetVodRecordFiles) is used to query the result of the recorded file of channel, including file name, task ID, file ID, and recording message.
2. **You can query files recorded in the last two months.**

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelId	Yes	String	Channel ID
startTime	Yes	String	Enter the value encoded from YYYY-MM-DD HH:MM:SS For example: 2016-01-01 00:00:00 (encoded from 2016-01-01 00:00:00)
endTime	No	String	Enter YYYY-MM-DD HH:MM:SS (encoded value). There is no limit on the end time by default
pageNum	No	Int	Page number. Default is 1
pageSize	No	Int	Number of records in a page. Default is 20

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message
total_count	int	Total number of returned files

filesInfo	Array	[ { "fileId": "9896125784085567721", "fileName": "LVB -aaa-20160112-1455-20160112-1457", "reportMessage": null, "taskId": "57", "startTime": "7", "endTime": "128" } ]
-----------	-------	--

## 4. Example

### Input 1

```
https://domain/v2/index.php?Action=GetVodRecordFiles&channelId=9896125784085535840&startTime=2016-01-01
```

### Output 1

```
{
  "code": 0,
  "message": "",
  "codeDesc": "Success",
  "filesInfo": [
    {
      "fileId": "9896125784085567721",
      "fileName": "LVB -aaa-20160112-1455-20160112-1457",
      "reportMessage": null,
      "taskId": "57",
      "startTime": "7",
      "endTime": "128"
    },
    {
      "fileId": "9896125784085567722",
      "fileName": "LVB -aaa-20160112-1457-20160112-1459",
      "reportMessage": null,
      "taskId": "57",
      "startTime": "128",
      "endTime": "250"
    },
    {
      "fileId": "9896125784085567723",
      "fileName": "LVB -aaa-20160112-1459-20160112-1459",
      "reportMessage": null,
      "taskId": "57",
      "startTime": "250",
      "endTime": "299"
    },
    {
      "fileId": "9896125784085567727",
```

```
"fileName": "LVB -aaa-20160112-1510-20160112-1512",
"reportMessage": null,
"taskId": "58",
"startTime": "7",
"endTime": "132"
},
{
"fileId": "9896125784085567736",
"fileName": "LVB -aaa-20160112-1512-20160112-1514",
"reportMessage": null,
"taskId": "58",
"startTime": "132",
"endTime": "258"
},
{
"fileId": "9896125784085567739",
"fileName": "LVB -aaa-20160112-1514-20160112-1515",
"reportMessage": null,
"taskId": "58",
"startTime": "258",
"endTime": "301"
},
{
"fileId": "9896125784085567756",
"fileName": "LVB -aaa-20160112-1525-20160112-1526",
"reportMessage": null,
"taskId": "61",
"startTime": "7",
"endTime": "60"
}
],
"totalCount": 7
}
```

# Query Recorded Shard List

Last updated : 2018-07-10 17:16:28

## 1. API Description

Domain name: live.api.qcloud.com

Note: This API (DescribeRecord) is used to store recorded files on the VOD platform. If you want to use the recording feature, you need to activate a VOD account first and ensure that the account is available. When recording files are stored, the charges (including charges for storage and downstream playback traffic) are calculated with VOD billing method. For more information, please see [relevant document](#).

## 2. Input Parameters

Parameter Name	Required	Type	Description
channelId	Yes	String	Channel ID
taskId	Yes	Int	Task ID
pageNo	No	Int	Page number. Default is 1
pageSize	No	Int	Page size. Default is 10

## 3. Output Parameters

Parameter Name	Type	Description
code	Int	Error code. 0: Successful; other values: Failed
message	String	Error message
totalCount	Int	Total number
fileSet	Array	File result set

The file information is composed as follows:

Parameter Name	Type	Description



fileId	String	File ID
startTime	String	Time when the fragmentation process starts
endTime	String	Time when the fragmentation process ends
fileName	String	File name

## 4. Example

### Input 1

```
http://domain/v2/index.php?Action=DescribeRecord&channelId=16093104850681751595&taskId=10&pageSize=10&p
```

### Output 1

```
{
  "code": 0,
  "message": "",
  "totalCount": 2,
  "fileSet": [
    {
      "fileId": "16093104850681751583",
      "startTime": "7",
      "endTime": "720",
      "fileName": "LVB -sparrow_hls-20160120-0958-20160120-1010"
    },
    {
      "fileId": "16093104850681751599",
      "startTime": "8",
      "endTime": "1806",
      "fileName": "LVB -sparrow_hls-20160120-1010-20160120-1040"
    }
  ]
}
```

After the recording, the VOD platform will generate a file, for example:

```
http://2527.vod.myqcloud.com/2527_000007d0b18*****bd98f9125ed6569ee9a90001.f0.mp4
```

Complete information on access methods can be found via field and API [VOD API](#)

# Error Code List

Last updated : 2018-07-10 17:27:24

## Categorization of Error Codes

The error codes listed here can be categorized into **Access Layer Error Codes** and **Video Cloud Error Codes**. The access layer error codes are uniformly defined across the Tencent Cloud access layer, and the video cloud error codes are only needed in LVB and VOD services.

For more information on how to distinguish between the two types of error codes and how they work, please see [Dual Error Codes](#).

## Access Layer Error Codes

Error Code	Message	Description
4000	Invalid request parameter	Required parameters are missing, or the format of parameter values is incorrect. For error message, please see the "message" field in error description.
4100	Authentication failed	Signature authentication failed. For more information, please see the "Authentication" section in the document.
4200	Request expired	The request has expired. For more information, please see the "Request Validity" section in the document.
4300	Access denied	The account is blocked or not within the user range of the API.
4400	Quota exceeded	The number of requests exceeded the quota limit. For more information, please see the "Request Quota" section in the document.
4500	Replay attack	The Nonce and Timestamp parameters ensure that each request is executed only once on the server. Therefore, the Nonce value cannot be the same as the last one, and the difference between Timestamp and Tencent server time cannot be greater than 2 hours.
4600	Unsupported protocol	The protocol is not supported. For more information, please see the relevant document.
5000	Resource does not exist	The instance corresponding to the resource ID does not exist, or the instance has been returned, or another user's resource is accessed.

Error Code	Message	Description
5100	Resource operation failed	A failure message is returned from the function layer. For error message, please see the "message" field in error description.
5200	Failed to purchase the resource	The resource purchase failed. This may be caused unsupported instance configuration or insufficient resources.
5300	Failed to purchase the resource	The resource purchase failed because of insufficient balance.
5400	Part of operations performed successfully	The batch operation was successful on some resources. For more information, please see the returned value of the method.
5500	User failed to pass identity verification	The resource purchase failed because the user failed to pass identity verification.
6000	Internal error with the server	An internal error occurred with the server. Try again later or contact customer service.
6100	Not supported in the version	This API is not supported in this version or is under maintenance. Note: When this error occurs, check whether the domain name for the API is correct. Domain name may vary with different modules.
6200	API is unavailable	The API is under maintenance and is unavailable. Try again later.

## Video Cloud Error Codes

Error Code	Message
1000	Incorrect input parameter
1001	An error occurred while obtaining the user account
1002	The user does not exist
1003	Incorrect user account ID

Error Code	Message
3000	Network error
4001	Incorrect JSON format
20100	An error occurred while creating a channel
20101	Number of channels exceeds the limit
20102	An error occurred while obtaining the channel information
20103	An error occurred while modifying the channel information
20104	An error occurred while obtaining the channel list
20105	An error occurred while deleting a channel
20106	An error occurred while disabling a channel
20107	An error occurred while enabling a channel
20108	Channel is not in an editable status
20109	Channel is not in disabled status
20111	No LVB source is found for the channel
20112	Incorrect LVB source protocol
20113	Incorrect receiver protocol
20114	Failed to activate the service
20200	Pull URL is empty
20201	An error occurred while obtaining the LVB source information
20202	An error occurred while creating a LVB source
20203	An error occurred while deleting a LVB source
20204	Pull URL is empty
20250	Blacklist and whitelist are empty
20251	Blacklist and whitelist do not exist
20252	An error occurred while obtaining the blacklist and whitelist
20253	Number of name lists exceeds the limit

Error Code	Message
20300	An error occurred while modifying channel status
20301	Channel does not exist
20320	Failed to create recording task
20321	Failed to obtain the list of recording tasks
20322	Time conflict between recording tasks
20323	The start time and end time of the recording task are invalid
20326	Failed to modify recording task
20327	The recording task does not exist
20328	Screen cap task does not exist
20500	Watermark does not exist