

媒体直播

API 文档

产品文档



腾讯云

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History

最近更新时间：2024-01-24 11:22:42

Release 16

Release time: 2023-10-27 16:14:50

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateStreamLiveChannel](#)
 - New input parameters:PipelineInputSettings
- [ModifyStreamLiveChannel](#)
 - New input parameters:PipelineInputSettings

New data structures:

- [PipelineInputSettingsInfo](#)

Modified data structures:

- [HlsRemuxSettingsInfo](#)
 - New members:StreamOrder, VideoResolution
- [StreamLiveChannelInfo](#)
 - New members:PipelineInputSettings

Release 15

Release time: 2023-10-20 17:55:56

Release updates:

Improvement to existing documentation.

New data structures:

- [TimedMetadataInfo](#)

- [TimedMetadataSettingInfo](#)

Modified data structures:

- [EventSettingsReq](#)
 - New members:TimedMetadataSetting
- [EventSettingsResp](#)
 - New members:TimedMetadataSetting
- [OutputInfo](#)
 - New members:TimedMetadataSettings

Release 14

Release time: 2023-09-11 17:39:19

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateStreamLiveChannel](#)
 - New input parameters:InputLossBehavior
- [ModifyStreamLiveChannel](#)
 - New input parameters:InputLossBehavior

New data structures:

- [InputLossBehaviorInfo](#)

Modified data structures:

- [StreamLiveChannelInfo](#)
 - New members:InputLossBehavior

Release 13

Release time: 2023-08-23 16:50:44

Release updates:

Improvement to existing documentation.

Modified data structures:

- [HlsRemuxSettingsInfo](#)
 - New members:LowLatency, PartialSegmentDuration, PartialSegmentPlaySite

Release 12

Release time: 2023-07-05 16:44:44

Release updates:

Improvement to existing documentation.

New data structures:

- [DeliveryRestrictionsInfo](#)
- [SegmentationDescriptorInfo](#)
- [SegmentationDescriptorRespInfo](#)

Modified data structures:

- [EventSettingsReq](#)
 - New members:SCTE35SegmentationDescriptor, SpliceEventID, SpliceDuration
- [EventSettingsResp](#)
 - New members:SCTE35SegmentationDescriptor, SpliceEventID, SpliceDuration

Release 11

Release time: 2023-02-10 12:54:37

Release updates:

Improvement to existing documentation.

New APIs:

- [QueryInputStreamState](#)

Modified APIs:

- [CreateStreamLiveChannel](#)
 - New input parameters:EventNotifySettings
- [ModifyStreamLiveChannel](#)

- New input parameters: [EventNotifySettings](#)

New data structures:

- [EventNotifySetting](#)
- [InputStreamInfo](#)
- [PushEventSetting](#)
- [QueryDispatchInputInfo](#)

Modified data structures:

- [AVTemplate](#)
 - New members: [SmartSubtitles](#), [SubtitleConfiguration](#)
- [DashRemuxSettingsInfo](#)
 - New members: [H265PackageType](#)
- [DrmKey](#)
 - New members: [KeyUri](#)
- [DrmSettingsInfo](#)
 - New members: [DrmType](#)
- [HlsRemuxSettingsInfo](#)
 - New members: [SegmentType](#), [H265PackageType](#)
- [InputSettingInfo](#)
 - New members: [InputDomain](#), [UserName](#), [Password](#)
- [StreamLiveChannelInfo](#)
 - New members: [EventNotifySettings](#)

Release 10

Release time: 2022-03-24 14:58:35

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeStreamLiveTranscodeDetail](#)

New data structures:

- [DescribeTranscodeDetailInfo](#)

Release 9

Release time: 2022-03-15 10:27:53

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateStreamLiveWatermark](#)
- [DeleteStreamLiveWatermark](#)
- [DescribeStreamLiveWatermark](#)
- [DescribeStreamLiveWatermarks](#)
- [ModifyStreamLiveWatermark](#)

New data structures:

- [CreateImageSettings](#)
- [CreateTextSettings](#)
- [DescribeImageSettings](#)
- [DescribeTextSettings](#)
- [DescribeWatermarkInfo](#)

Release 8

Release time: 2022-03-02 15:08:50

Release updates:

Improvement to existing documentation.

Modified data structures:

- [AVTemplate](#)
 - New members:WatermarkId
- [InputSettingInfo](#)
 - New members:DelayTime
- [VideoTemplateInfo](#)
 - New members:WatermarkId

Release 7

Release time: 2021-11-19 18:36:56

Release updates:

Improvement to existing documentation.

Modified APIs:

- [CreateStreamLiveChannel](#)
 - New input parameters:PlanSettings
- [ModifyStreamLiveChannel](#)
 - New input parameters:PlanSettings

New data structures:

- [PlanSettings](#)
- [TimedRecordSettings](#)

Modified data structures:

- [StreamLiveChannelInfo](#)
 - New members:PlanSettings

Release 6

Release time: 2021-11-12 10:09:36

Release updates:

Improvement to existing documentation.

New APIs:

- [DeleteStreamLivePlan](#)

Release 5

Release time: 2021-11-10 11:25:00

Release updates:

Improvement to existing documentation.

New data structures:

- [EventSettingsDestinationReq](#)
- [EventSettingsDestinationResp](#)

Modified data structures:

- [EventSettingsReq](#)
 - New members:OutputGroupName, ManifestName, Destinations
- [EventSettingsResp](#)
 - New members:OutputGroupName, ManifestName, Destinations
- [TimingSettingsReq](#)
 - New members:StartTime, EndTime

Release 4

Release time: 2021-11-05 16:58:52

Release updates:

Improvement to existing documentation.

New data structures:

- [SDMCSettingsInfo](#)
- [TimeShiftSettingsInfo](#)

Modified data structures:

- [DrmSettingsInfo](#)
 - New members:SDMCSettings
- [StreamLiveOutputGroupsInfo](#)
 - New members:TimeShiftSettings
- [TimingSettingsResp](#)
 - New members:StartTime, EndTime

Release 3

Release time: 2021-10-25 15:57:06

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeStreamLiveRegions](#)

New data structures:

- [RegionInfo](#)
- [StreamLiveRegionInfo](#)

Release 2

Release time: 2021-08-23 14:25:46

Release updates:

Improvement to existing documentation.

New APIs:

- [CreateStreamLiveChannel](#)
- [CreateStreamLiveInput](#)
- [CreateStreamLiveInputSecurityGroup](#)
- [CreateStreamLivePlan](#)
- [DeleteStreamLiveChannel](#)
- [DeleteStreamLiveInput](#)
- [DeleteStreamLiveInputSecurityGroup](#)
- [DescribeStreamLiveChannel](#)
- [DescribeStreamLiveChannelAlerts](#)
- [DescribeStreamLiveChannelInputStatistics](#)
- [DescribeStreamLiveChannelLogs](#)
- [DescribeStreamLiveChannelOutputStatistics](#)
- [DescribeStreamLiveChannels](#)
- [DescribeStreamLiveInput](#)
- [DescribeStreamLiveInputSecurityGroup](#)
- [DescribeStreamLiveInputSecurityGroups](#)
- [DescribeStreamLiveInputs](#)
- [DescribeStreamLivePlans](#)
- [ModifyStreamLiveChannel](#)

- [ModifyStreamLiveInput](#)
- [ModifyStreamLiveInputSecurityGroup](#)
- [StartStreamLiveChannel](#)
- [StopStreamLiveChannel](#)

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- [CreateMediaLiveChannel](#)
- [CreateMediaLiveInput](#)
- [CreateMediaLiveInputSecurityGroup](#)
- [DeleteMediaLiveChannel](#)
- [DeleteMediaLiveInput](#)
- [DeleteMediaLiveInputSecurityGroup](#)
- [DescribeMediaLiveChannel](#)
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- [ModifyMediaLiveChannel](#)
- [ModifyMediaLiveInput](#)
- [ModifyMediaLiveInputSecurityGroup](#)
- [StartMediaLiveChannel](#)
- [StopMediaLiveChannel](#)

New data structures:

- [AVTemplate](#)
- [AttachedInput](#)
- [EventSettingsReq](#)
- [EventSettingsResp](#)
- [FailOverSettings](#)
- [PlanReq](#)
- [PlanResp](#)
- [StreamLiveChannelInfo](#)

- [StreamLiveOutputGroupsInfo](#)
- [StreamPackageSettingsInfo](#)
- [TimingSettingsReq](#)
- [TimingSettingsResp](#)

Deleted data structures:

- AttachedInputInfo
- ChannelInfo
- MediaPackageSettingsInfo
- OutputGroupsInfo

Modified data structures:

- [HlsRemuxSettingsInfo](#)
 - New members:Scheme
- [InputSettingInfo](#)
 - New members:SourceType
- [OutputInfo](#)
 - New members:AVTemplateName
- [VideoTemplateInfo](#)
 - New members:RateControlMode

Existing Release

Release time: 2020-07-30 20:04:12

Existing APIs/data structures are as follows:

Improvement to existing documentation.

Existing APIs:

- CreateMediaLiveChannel
- CreateMediaLiveInput
- CreateMediaLiveInputSecurityGroup
- DeleteMediaLiveChannel
- DeleteMediaLiveInput
- DeleteMediaLiveInputSecurityGroup
- DescribeMediaLiveChannel
- DescribeMediaLiveChannelAlerts

- DescribeMediaLiveChannelInputStatistics
- DescribeMediaLiveChannelLogs
- DescribeMediaLiveChannelOutputStatistics
- DescribeMediaLiveChannels
- DescribeMediaLiveInput
- DescribeMediaLiveInputSecurityGroup
- DescribeMediaLiveInputSecurityGroups
- DescribeMediaLiveInputs
- ModifyMediaLiveChannel
- ModifyMediaLiveInput
- ModifyMediaLiveInputSecurityGroup
- StartMediaLiveChannel
- StopMediaLiveChannel

Existing data structures:

- AttachedInputInfo
- [AudioPidSelectionInfo](#)
- [AudioPipelineInputStatistics](#)
- [AudioSelectorInfo](#)
- [AudioTemplatInfo](#)
- [ChannelAlertInfos](#)
- ChannelInfo
- [ChannelInputStatistics](#)
- [ChannelOutputsStatistics](#)
- [ChannelPipelineAlerts](#)
- [DashRemuxSettingsInfo](#)
- [DestinationInfo](#)
- [DrmKey](#)
- [DrmSettingsInfo](#)
- [HlsRemuxSettingsInfo](#)
- [InputInfo](#)
- [InputSecurityGroupInfo](#)
- [InputSettingInfo](#)
- [InputStatistics](#)
- [LogInfo](#)
- [LogMessageInfo](#)
- [MediaPackageSettingsInfo](#)

-
- [OutputGroupsInfo](#)
 - [OutputInfo](#)
 - [OutputsStatistics](#)
 - [PipelineInputStatistics](#)
 - [PipelineLogInfo](#)
 - [PipelineOutputStatistics](#)
 - [Scte35SettingsInfo](#)
 - [StreamAudioInfo](#)
 - [StreamInfo](#)
 - [StreamScte35Info](#)
 - [StreamVideoInfo](#)
 - [VideoPipelineInputStatistics](#)
 - [VideoTemplateInfo](#)

Introduction

最近更新时间：2024-01-24 11:22:38

StreamLive offers stable, high-quality, and broadcast-grade video live streaming as well as professional video processing and transcoding services to help you deliver low-latency and multi-protocol live content at high concurrency.

API Category

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Input Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateStreamLiveInput	Creates a StreamLive input	20
DeleteStreamLiveInput	Deletes a StreamLive input	20
DescribeStreamLiveInput	Queries a StreamLive input	20
DescribeStreamLiveInputs	Queries StreamLive inputs in batches	20
ModifyStreamLiveInput	Modifies a StreamLive input	20

Channel Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateStreamLiveChannel	Creates a StreamLive channel	20
DeleteStreamLiveChannel	Deletes a StreamLive channel	20
DescribeStreamLiveChannel	Queries a StreamLive channel	20
DescribeStreamLiveChannels	Queries StreamLive channels in batches	20
ModifyStreamLiveChannel	Modifies a StreamLive channel	20
StartStreamLiveChannel	Starts a StreamLive channel	20
StopStreamLiveChannel	Stops a StreamLive channel	20

Statistics APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeStreamLiveChannelAlerts	Queries the alarm information of a StreamLive channel	20
DescribeStreamLiveChannelInputStatistics	Queries input statistics	20
DescribeStreamLiveChannelLogs	Queries StreamLive channel logs	20
DescribeStreamLiveChannelOutputStatistics	Queries the output statistics of a StreamLive channel	20
DescribeStreamLiveRegions	Queries StreamLive regions	20
DescribeStreamLiveTranscodeDetail	Queries transcoding information	20
QueryInputStreamState	Queries the stream status of an input	20

Watermark Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateStreamLiveWatermark	Adds a watermark	20
DeleteStreamLiveWatermark	Deletes a watermark	20
DescribeStreamLiveWatermark	Queries a watermark	20
DescribeStreamLiveWatermarks	Queries multiple watermarks at a time	20
ModifyStreamLiveWatermark	Modifies a watermark	20

Plan APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateStreamLivePlan	Creates an event in the plan	20

DeleteStreamLivePlan	Deletes a StreamLive event	20
DescribeStreamLivePlans	Queries events in batches	20

Input Security Group Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateStreamLiveInputSecurityGroup	Creates an input security group	20
DeleteStreamLiveInputSecurityGroup	Deletes an input security group	20
DescribeStreamLiveInputSecurityGroup	Queries an input security group	20
DescribeStreamLiveInputSecurityGroups	Queries input security groups in batches	20
ModifyStreamLiveInputSecurityGroup	Modifies an input security group	20

Making API Requests

Request Structure

最近更新时间：2024-01-24 11:22:39

1. Service Address

The API supports access from either a nearby region (at `mdl.tencentcloudapi.com`) or a specified region (at `mdl.ap-guangzhou.tencentcloudapi.com` for Guangzhou, for example).

We recommend using the domain name to access the nearest server. When you call an API, the request is automatically resolved to a server in the region **nearest** to the location where the API is initiated. For example, when you initiate an API request in Guangzhou, this domain name is automatically resolved to a Guangzhou server, the result is the same as that of specifying the region in the domain like "`mdl.ap-guangzhou.tencentcloudapi.com`".

Note: For latency-sensitive businesses, we recommend that you specify the region in the domain name.

Tencent Cloud currently supports the following regions:

Hosted region	Domain name
Local access region (recommended, only for non-financial availability zones)	<code>mdl.tencentcloudapi.com</code>
South China (Guangzhou)	<code>mdl.ap-guangzhou.tencentcloudapi.com</code>
East China (Shanghai)	<code>mdl.ap-shanghai.tencentcloudapi.com</code>
North China (Beijing)	<code>mdl.ap-beijing.tencentcloudapi.com</code>
Southwest China (Chengdu)	<code>mdl.ap-chengdu.tencentcloudapi.com</code>
Southwest China (Chongqing)	<code>mdl.ap-chongqing.tencentcloudapi.com</code>
Hong Kong, Macao, Taiwan (Hong Kong, China)	<code>mdl.ap-hongkong.tencentcloudapi.com</code>
Southeast Asia (Singapore)	<code>mdl.ap-singapore.tencentcloudapi.com</code>
Southeast Asia (Bangkok)	<code>mdl.ap-bangkok.tencentcloudapi.com</code>

South Asia (Mumbai)	mdl.ap-mumbai.tencentcloudapi.com
Northeast Asia (Seoul)	mdl.ap-seoul.tencentcloudapi.com
Northeast Asia (Tokyo)	mdl.ap-tokyo.tencentcloudapi.com
U.S. East Coast (Virginia)	mdl.na-ashburn.tencentcloudapi.com
U.S. West Coast (Silicon Valley)	mdl.na-siliconvalley.tencentcloudapi.com
North America (Toronto)	mdl.na-toronto.tencentcloudapi.com
Europe (Frankfurt)	mdl.eu-frankfurt.tencentcloudapi.com

2. Communications Protocol

All the Tencent Cloud APIs communicate via HTTPS, providing highly secure communication tunnels.

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

- application/json (recommended). The TC3-HMAC-SHA256 signature algorithm must be used.
- application/x-www-form-urlencoded. The HmacSHA1 or HmacSHA256 signature algorithm must be used.
- multipart/form-data (only supported by certain APIs). You must use TC3-HMAC-SHA256 to calculate the signature.

The size of a GET request packet is up to 32 KB. The size of a POST request is up to 1 MB when the HmacSHA1 or HmacSHA256 signature algorithm is used, and up to 10 MB when TC3-HMAC-SHA256 is used.

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

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Common parameters are used for all APIs authenticating requestors. Common parameters must be included in all API requests, and they will not be described in individual API documents.

The exact contents of the common parameters will vary depending on the version of the signature method you use.

Common parameters for Signature Algorithm v3

When the TC3-HMAC-SHA256 algorithm is used, the common parameters should be uniformly placed in the HTTP request header, as shown below:

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see description of common parameter <code>Action</code> in the input parameters in r documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data y work with belongs. For values supported for an API, see the description c parameter <code>Region</code> in the input parameters in related API documentati parameter is not required for some APIs (which will be indicated in relatec documentation), and will not take effect even it is passed.
X-TC-Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request for example, 1529223702. Note: If the difference between the UNIX times server time is greater than 5 minutes, a signature expiration error may oc
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the c parameter <code>Version</code> in the API documentation. For example, the versi 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_requ SignedHeaders=content-type;host, Signature=fe5f80f77d5fa3beca038a248ff027d0445342fe2855ddc96317 Here: - TC3-HMAC-SHA256: Signature method, currently fixed as this value; - Credential: Signature credential; AKIDEXAMPLE is the SecretId; Date is UTC time, and this value must match the value of X-TC-Timestamp (a co

			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencent refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication information type and host are the required headers; - Signature: Signature digest.
X-TC-Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```

https://cvm.tencentcloudapi.com/?Limit=10&Offset=0

Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3EXAMPLE/2018-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
Content-Type: application/x-www-form-urlencoded
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1539084154
X-TC-Region: ap-guangzhou
    
```

The following example shows you how to structure an HTTP POST (application/json) request:

```

https://cvm.tencentcloudapi.com/

Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request, SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b13162d9279b0855cfba6789a8edb4c
Content-Type: application/json
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1527672334
X-TC-Region: ap-guangzhou

{"Offset":0,"Limit":10}
    
```

Example of an HTTP POST (multipart/form-data) request structure (only supported by specific APIs):


```
https://cvm.tencentcloudapi.com/
```

```
Authorization: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/2018-05-30/cvm/tc3_request,
SignedHeaders=content-type;host, Signature=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
```

```
Content-Type: multipart/form-data; boundary=58731222010402
```

```
Host: cvm.tencentcloudapi.com
```

```
X-TC-Action: DescribeInstances
```

```
X-TC-Version: 2017-03-12
```

```
X-TC-Timestamp: 1527672334
```

```
X-TC-Region: ap-guangzhou
```

```
--58731222010402
```

```
Content-Disposition: form-data; name="Offset"
```

```
0
```

```
--58731222010402
```

```
Content-Disposition: form-data; name="Limit"
```

```
10
```

```
--58731222010402--
```

Common parameters for Signature Algorithm v1

To adopt the HmacSHA1 and HmacSHA256 signature methods, common parameters must be put into the request string, as shown below:

Parameter Name	Type	Required	Description
Action	String	Yes	The name of the API for the desired operation. For the specific value, see the description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
Region	String	Yes	Region parameter, which is used to identify the region to which the data you want to work with belongs. For values supported for an API, see the description of common parameter <code>Region</code> in the input parameters in related API documentation. Note: This parameter is not required for some APIs (which will be indicated in related API documentation), and will not take effect even if it is passed.

Timestamp	Integer	Yes	The current UNIX timestamp that records the time when the API request was initiated, for example, 1529223702. If the difference between the value and the current system time is too large, a signature expiration error may occur.
Nonce	Integer	Yes	A random positive integer used along with <code>Timestamp</code> to prevent replay attacks.
SecretId	String	Yes	The identifying SecretId obtained on the Cloud API Key page. A SecretId corresponds to a unique SecretKey which is used to generate the request signature (Signature).
Signature	String	Yes	Request signature used to verify the validity of this request. This is calculated based on the actual input parameters. For more information about how this is calculated, see the API authentication documentation.
Version	String	Yes	API version of the action. For the valid values, see the description of the common input parameter <code>Version</code> in the API documentation. For example, the version of CVM is 2017-03-12.
SignatureMethod	String	No	Signature method. Currently, only HmacSHA256 and HmacSHA1 are supported. The HmacSHA256 algorithm is used to verify the signature only when this parameter is specified as HmacSHA256. In other cases, the signature is verified with HmacSHA1.
Token	String	No	The token used for a temporary certificate. It must be used with a temporary key. You can obtain the temporary key and token by calling a CAM API. No token is required for a long-term key.

Assuming you want to query the list of Cloud Virtual Machine instances in the Guangzhou region, the request structure in the form of request URL, request header and request body may be as follows:

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

```
Host: cvm.tencentcloudapi.com
Content-Type: application/x-www-form-urlencoded
```

Example of an HTTP POST request structure:

```
https://cvm.tencentcloudapi.com/
```

```
Host: cvm.tencentcloudapi.com
```

```
Content-Type: application/x-www-form-urlencoded
```

```
Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

Signature v3

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TencentCloud API authenticates every single request, i.e., the request must be signed using the security credentials in the designated steps. Each request has to contain the signature information (Signature) in the common request parameters and be sent in the specified way and format.

Applying for Security Credentials

The security credential used in this document is a key, which includes a SecretId and a SecretKey. Each user can have up to two pairs of keys.

- SecretId: Used to identify the API caller, which is just like a username.
- SecretKey: Used to authenticate the API caller, which is just like a password.
- **You must keep your security credentials private and avoid disclosure; otherwise, your assets may be compromised. If they are disclosed, please disable them as soon as possible.**

You can apply for the security credentials through the following steps:

1. Log in to the [Tencent Cloud Console](#).
2. Go to the [TencentCloud API Key](#) console page.
3. On the [TencentCloud API Key](#) page, click **Create** to create a SecretId/SecretKey pair.

Using the Resources for Developers

TencentCloud API comes with SDKs for seven commonly used programming languages, including [Python](#), [Java](#), [PHP](#), [Go](#), [NodeJS](#) and [.NET](#). In addition, it provides [API Explorer](#) which enables online call, signature verification, and SDK code generation. If you have any troubles calculating a signature, consult these resources.

TC3-HMAC-SHA256 Signature Algorithm

Compatible with the previous HmacSHA1 and HmacSHA256 signature algorithms, the TC3-HMAC-SHA256 signature algorithm is more secure and supports larger requests and JSON format with better performance. We recommend using TC3-HMAC-SHA256 to calculate the signature.

TencentCloud API supports both GET and POST requests. For the GET method, only the Content-Type: application/x-www-form-urlencoded protocol format is supported. For the POST method, two protocol formats,

Content-Type: application/json and Content-Type: multipart/form-data, are supported. The JSON format is supported by default for all business APIs, and the multipart format is supported only for specific business APIs. In this case, the API cannot be called in JSON format. See the specific business API documentation for more information. The POST method is recommended, as there is no difference in the results of both the methods, but the GET method only supports request packets up to 32 KB.

The following uses querying the list of CVM instances in the Guangzhou region as an example to describe the steps of signature splicing. We chose this API because:

1. CVM is activated by default, and this API is often used;
2. It is read-only and does not change the status of existing resources;
3. It covers many types of parameters, which allows it to be used to demonstrate how to use arrays containing data structures.

In the example, we try to choose common parameters and API parameters that are prone to mistakes. When you actually call an API, please use parameters based on the actual conditions. The parameters vary by API. Do not copy the parameters and values in this example.

Assuming that your SecretId and SecretKey are `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****` and `Gu5t9xGARNpq86cd98joQYCN3*****`, respectively, if you want to view the status of the instance in the Guangzhou region whose CVM instance name is "unnamed" and have only one data entry returned, then the request may be:

```
curl -X POST https://cvm.tencentcloudapi.com \
-H "Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
*/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e4
1437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff" \
-H "Content-Type: application/json; charset=utf-8" \
-H "Host: cvm.tencentcloudapi.com" \
-H "X-TC-Action: DescribeInstances" \
-H "X-TC-Timestamp: 1551113065" \
-H "X-TC-Version: 2017-03-12" \
-H "X-TC-Region: ap-guangzhou" \
-d '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}'
```

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

Concatenate the canonical request string (CanonicalRequest) in the following pseudocode format:

```
CanonicalRequest =
HTTPRequestMethod + '\n' +
CanonicalURI + '\n' +
```

```
CanonicalQueryString + '\n' +
CanonicalHeaders + '\n' +
SignedHeaders + '\n' +
HashedRequestPayload
```

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses <code>POST</code> .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	<p>The query string in the URL of the originating HTTP request. This is always an empty string for POST requests, and is the string after the question mark (?) for GET requests. For example: <code>Limit=10&Offset=0</code>.</p> <p>Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.</p>
CanonicalHeaders	<p>Header information for signature calculation, including at least two headers of <code>host</code> and <code>content-type</code>. Custom headers can be added to participate in the signature process to improve the uniqueness and security of the request.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> Both the key and value of the header should be converted to lowercase with the leading and trailing spaces removed, so they are concatenated in the format of <code>key:value\n</code> format; If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). <p>The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>.</p> <p>Note: <code>content-type</code> must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the server will return an error indicating signature verification failed.</p>
SignedHeaders	<p>Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the headers in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers.</p> <p>Concatenation rules:</p> <ol style="list-style-type: none"> Both the key and value of the header should be converted to lowercase; If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). <p>The value in this example is <code>content-type;host</code></p>
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filter</code>

```

[{"Values": ["unnamed"], "Name": "instance-name"}]} in this example
The pseudocode for calculation is
Lowercase(HexEncode(Hash.SHA256(RequestPayload))) by SHA256 hashing the pay
of the HTTP request, performing hexadecimal encoding, and finally converting the encc
string to lowercase letters. For GET requests, RequestPayload is always an empt
string. The calculation result in this example is
99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907
    
```

According to the rules above, the CanonicalRequest string obtained in the example is as follows:

POST

/

content-type:application/json; charset=utf-8

host:cvm.tencentcloudapi.com

content-type;host

99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

```

StringToSign =
Algorithm + \n +
RequestTimestamp + \n +
CredentialScope + \n +
HashedCanonicalRequest
    
```

Field Name	Explanation
Algorithm	Signature algorithm, which is currently always TC3-HMAC-SHA256 .
RequestTimestamp	Request timestamp, i.e., the value of the common parameter X-TC-Timestamp in request header, which is the UNIX timestamp of the current time in seconds, such as 1551113065 in this example.
CredentialScope	Scope of the credential in the format of Date/service/tc3_request , including date, requested service and termination string (tc3_request). Date is a date in UTC time, whose value should match the UTC date converted by the common parameter X-TC-Timestamp ; service is the product name, which should match the domain name of the product called. The calculation result in this example is 20180525/cvm/tc3_request .

HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequest))) The calculation result in this example is 2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
------------------------	---

Note:

1. Date has to be calculated from the timestamp "X-TC-Timestamp" and the time zone is UTC+0. If you add the system's local time zone information (such as UTC+8), calls can succeed both day and night but will definitely fail at 00:00. For example, if the timestamp is 1551113065 and the time in UTC+8 is 2019-02-26 00:44:25, the UTC+0 date in the calculated Date value should be 2019-02-25 instead of 2019-02-26.
2. Timestamp must be the same as your current system time, and your system time and standard time must be synced; if the difference between Timestamp and your current system time is larger than five minutes, the request will fail. If your system time is out of sync with the standard time for a while, the request will fail and return a signature expiration error.

According to the preceding rules, the string to be signed obtained in the example is as follows:

```
TC3-HMAC-SHA256
1551113065
2019-02-25/cvm/tc3_request
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

3. Calculating the Signature

1. Calculate the derived signature key with the following pseudocode:

```
SecretKey = "Gu5t9xGARNpq86cd98joQYCN3*****"
SecretDate = HMAC_SHA256("TC3" + SecretKey, Date)
SecretService = HMAC_SHA256(SecretDate, Service)
SecretSigning = HMAC_SHA256(SecretService, "tc3_request")
```

Field Name	Explanation
SecretKey	The original SecretKey, i.e., Gu5t9xGARNpq86cd98joQYCN3*****.
Date	The Date field information in Credential, such as 2019-02-25 in this example.

Service	Value in the Service field in <code>Credential</code> , such as <code>cvm</code> in this example.
---------	---

2. Calculate the signature with the following pseudocode:

```
Signature = HexEncode(HMAC_SHA256(SecretSigning, StringToSign))
```

4. Concatenating the Authorization

The Authorization is concatenated as follows:

```
Authorization =
Algorithm + ' ' +
'Credential=' + SecretId + '/' + CredentialScope + ', ' +
'SignedHeaders=' + SignedHeaders + ', ' +
'Signature=' + Signature
```

Field Name	Explanation
Algorithm	Signature algorithm, which is always <code>TC3-HMAC-SHA256</code> .
SecretId	The SecretId in the key pair, i.e., <code>AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****</code> .
CredentialScope	Credential scope (see above). The calculation result in this example is <code>2019-02-25/cvm/tc3_request</code> .
SignedHeaders	Header information for signature calculation (see above), such as <code>content-type;host</code> in this example.
Signature	Signature value. The calculation result in this example is <code>c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff</code> .

According to the rules above, the value obtained in the example is:

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****/2019-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

```
Content-Type: application/json; charset=utf-8
Host: cvm.tencentcloudapi.com
X-TC-Action: DescribeInstances
X-TC-Version: 2017-03-12
X-TC-Timestamp: 1551113065
X-TC-Region: ap-guangzhou

{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}
```

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See [SDK Center](#) for more information. Currently, the following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceId=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGel%3D&Timestamp=1465185768&Version=2017-03-12.`

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.nio.charset.Charset;
import java.nio.charset.StandardCharsets;
import java.security.MessageDigest;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.TimeZone;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPITC3Demo {
    private final static Charset UTF8 = StandardCharsets.UTF_8;
    private final static String SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    private final static String SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";
    private final static String CT_JSON = "application/json; charset=utf-8";

    public static byte[] hmac256(byte[] key, String msg) throws Exception {
        Mac mac = Mac.getInstance("HmacSHA256");
        SecretKeySpec secretKeySpec = new SecretKeySpec(key, mac.getAlgorithm());
        mac.init(secretKeySpec);
        return mac.doFinal(msg.getBytes(UTF8));
    }

    public static String sha256Hex(String s) throws Exception {
        MessageDigest md = MessageDigest.getInstance("SHA-256");
        byte[] d = md.digest(s.getBytes(UTF8));
        return DatatypeConverter.printHexBinary(d).toLowerCase();
    }

    public static void main(String[] args) throws Exception {
        String service = "cvm";
        String host = "cvm.tencentcloudapi.com";
        String region = "ap-guangzhou";
        String action = "DescribeInstances";
        String version = "2017-03-12";
        String algorithm = "TC3-HMAC-SHA256";
        String timestamp = "1551113065";
        //String timestamp = String.valueOf(System.currentTimeMillis() / 1000);
        SimpleDateFormat sdf = new SimpleDateFormat("yyyy-MM-dd");
        // Pay attention to the time zone; otherwise, errors may occur
        sdf.setTimeZone(TimeZone.getTimeZone("UTC"));
        String date = sdf.format(new Date(Long.valueOf(timestamp + "000")));

        // ***** Step 1: Concatenate the CanonicalRequest string *****
    }
}
```

```

String httpRequestMethod = "POST";
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + host + "\n";
String signedHeaders = "content-type;host";

String payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}] }";
String hashedRequestPayload = sha256Hex(payload);
String canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
System.out.println(canonicalRequest);

// ***** Step 2: Concatenate the string to sign *****
String credentialScope = date + "/" + service + "/" + "tc3_request";
String hashedCanonicalRequest = sha256Hex(canonicalRequest);
String stringToSign = algorithm + "\n" + timestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
System.out.println(stringToSign);

// ***** Step 3: Calculate the signature *****
byte[] secretDate = hmac256(("TC3" + SECRET_KEY).getBytes(UTF8), date);
byte[] secretService = hmac256(secretDate, service);
byte[] secretSigning = hmac256(secretService, "tc3_request");
String signature = DatatypeConverter.printHexBinary(hmac256(secretSigning, stringToSign)).toLowerCase();
System.out.println(signature);

// ***** Step 4: Concatenate the Authorization *****
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
System.out.println(authorization);

TreeMap<String, String> headers = new TreeMap<String, String>();
headers.put("Authorization", authorization);
headers.put("Content-Type", CT_JSON);
headers.put("Host", host);
headers.put("X-TC-Action", action);
headers.put("X-TC-Timestamp", timestamp);
headers.put("X-TC-Version", version);
headers.put("X-TC-Region", region);

StringBuilder sb = new StringBuilder();
sb.append("curl -X POST https://").append(host)
    
```

```

.append(" -H \"Authorization: ").append(authorization).append("\")
.append(" -H \"Content-Type: application/json; charset=utf-8\"")
.append(" -H \"Host: ").append(host).append("\")
.append(" -H \"X-TC-Action: ").append(action).append("\")
.append(" -H \"X-TC-Timestamp: ").append(timestamp).append("\")
.append(" -H \"X-TC-Version: ").append(version).append("\")
.append(" -H \"X-TC-Region: ").append(region).append("\")
.append(" -d ").append(payload).append(" ");
System.out.println(sb.toString());
}
}

```

Python

```

# -*- coding: utf-8 -*-
import hashlib, hmac, json, os, sys, time
from datetime import datetime

# Key Parameters
secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.utcnow().strftime("%Y-%m-%d")
params = {"Limit": 1, "Filters": [{"Name": "instance-name", "Values": ["unnamed"]}]}

# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = "POST"
canonical_uri = "/"
canonical_querystring = ""
ct = "application/json; charset=utf-8"
payload = json.dumps(params)
canonical_headers = "content-type:%s\nhost:%s\n" % (ct, host)
signed_headers = "content-type;host"
hashed_request_payload = hashlib.sha256(payload.encode("utf-8")).hexdigest()
canonical_request = (http_request_method + "\n" +
canonical_uri + "\n" +

```

```

canonical_querystring + "\n" +
canonical_headers + "\n" +
signed_headers + "\n" +
hashed_request_payload)
print(canonical_request)

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + "/" + service + "/" + "tc3_request"
hashed_canonical_request = hashlib.sha256(canonical_request.encode("utf-8")).hexdigest()
string_to_sign = (algorithm + "\n" +
str(timestamp) + "\n" +
credential_scope + "\n" +
hashed_canonical_request)
print(string_to_sign)

# ***** Step 3: Calculate the Signature *****
# Function for computing signature digest
def sign(key, msg):
return hmac.new(key, msg.encode("utf-8"), hashlib.sha256).digest()
secret_date = sign(("TC3" + secret_key).encode("utf-8"), date)
secret_service = sign(secret_date, service)
secret_signing = sign(secret_service, "tc3_request")
signature = hmac.new(secret_signing, string_to_sign.encode("utf-8"), hashlib.sha256).hexdigest()
print(signature)

# ***** Step 4: Concatenate the Authorization *****
authorization = (algorithm + " " +
"Credential=" + secret_id + "/" + credential_scope + ", " +
"SignedHeaders=" + signed_headers + ", " +
"Signature=" + signature)
print(authorization)

print('curl -X POST ' + endpoint
+ ' -H "Authorization: ' + authorization + '" '
+ ' -H "Content-Type: application/json; charset=utf-8" '
+ ' -H "Host: ' + host + '" '
+ ' -H "X-TC-Action: ' + action + '" '
+ ' -H "X-TC-Timestamp: ' + str(timestamp) + '" '
+ ' -H "X-TC-Version: ' + version + '" '
+ ' -H "X-TC-Region: ' + region + '" '
+ " -d '" + payload + "'")
    
```

Golang

```
package main

import (
    "crypto/hmac"
    "crypto/sha256"
    "encoding/hex"
    "fmt"
    "time"
)

func sha256hex(s string) string {
    b := sha256.Sum256([]byte(s))
    return hex.EncodeToString(b[:])
}

func hmacsha256(s, key string) string {
    hashed := hmac.New(sha256.New, []byte(key))
    hashed.Write([]byte(s))
    return string(hashed.Sum(nil))
}

func main() {
    secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"
    host := "cvm.tencentcloudapi.com"
    algorithm := "TC3-HMAC-SHA256"
    service := "cvm"
    version := "2017-03-12"
    action := "DescribeInstances"
    region := "ap-guangzhou"
    //var timestamp int64 = time.Now().Unix()
    var timestamp int64 = 1551113065

    // step 1: build canonical request string
    httpRequestMethod := "POST"
    canonicalURI := "/"
    canonicalQueryString := ""
    canonicalHeaders := "content-type:application/json; charset=utf-8\n" + "host:" +
        host + "\n"
    signedHeaders := "content-type;host"
    payload := `{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}`
    hashedRequestPayload := sha256hex(payload)
    canonicalRequest := fmt.Sprintf("%s\n%s\n%s\n%s\n%s\n%s",
        httpRequestMethod,
        canonicalURI,
```

```
canonicalQueryString,  
canonicalHeaders,  
signedHeaders,  
hashedRequestPayload)  
fmt.Println(canonicalRequest)  
  
// step 2: build string to sign  
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")  
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)  
hashedCanonicalRequest := sha256hex(canonicalRequest)  
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",  
algorithm,  
timestamp,  
credentialScope,  
hashedCanonicalRequest)  
fmt.Println(string2sign)  
  
// step 3: sign string  
secretDate := hmacsha256(date, "TC3"+secretKey)  
secretService := hmacsha256(service, secretDate)  
secretSigning := hmacsha256("tc3_request", secretService)  
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))  
fmt.Println(signature)  
  
// step 4: build authorization  
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%  
s",  
algorithm,  
secretId,  
credentialScope,  
signedHeaders,  
signature)  
fmt.Println(authorization)  
  
curl := fmt.Sprintf(`curl -X POST https://%s\  
-H "Authorization: %s"\  
-H "Content-Type: application/json; charset=utf-8"\  
-H "Host: %s" -H "X-TC-Action: %s"\  
-H "X-TC-Timestamp: %d"\  
-H "X-TC-Version: %s"\  
-H "X-TC-Region: %s"\  
-d '%s'`, host, authorization, host, action, timestamp, version, region, payload)  
fmt.Println(curl)  
}
```

PHP


```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*****";
$host = "cvm.tencentcloudapi.com";
$service = "cvm";
$version = "2017-03-12";
$action = "DescribeInstances";
$region = "ap-guangzhou";
// $timestamp = time();
$timestamp = 1551113065;
$algorithm = "TC3-HMAC-SHA256";

// step 1: build canonical request string
$httpRequestMethod = "POST";
$canonicalUri = "/";
$canonicalQueryString = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:". $host. "\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-name"}]}';
$hashedRequestPayload = hash("SHA256", $payload);
$canonicalRequest = $httpRequestMethod. "\n"
.$canonicalUri. "\n"
.$canonicalQueryString. "\n"
.$canonicalHeaders. "\n"
.$signedHeaders. "\n"
.$hashedRequestPayload;
echo $canonicalRequest.PHP_EOL;

// step 2: build string to sign
$date = gmdate("Y-m-d", $timestamp);
$credentialScope = $date. "/" . $service. "/tc3_request";
$hashedCanonicalRequest = hash("SHA256", $canonicalRequest);
$stringToSign = $algorithm. "\n"
.$timestamp. "\n"
.$credentialScope. "\n"
.$hashedCanonicalRequest;
echo $stringToSign.PHP_EOL;

// step 3: sign string
$secretDate = hash_hmac("SHA256", $date, "TC3". $secretKey, true);
$secretService = hash_hmac("SHA256", $service, $secretDate, true);
$secretSigning = hash_hmac("SHA256", "tc3_request", $secretService, true);
$signature = hash_hmac("SHA256", $stringToSign, $secretSigning);
echo $signature.PHP_EOL;
```

```
// step 4: build authorization
$authorization = $algorithm
." Credential=".$secretId."/".$credentialScope
.", SignedHeaders=content-type;host, Signature=".$signature;
echo $authorization.PHP_EOL;

$curl = "curl -X POST https://" . $host
." -H "Authorization: ".$authorization.""
." -H "Content-Type: application/json; charset=utf-8""
." -H "Host: ".$host.""
." -H "X-TC-Action: ".$action.""
." -H "X-TC-Timestamp: ".$timestamp.""
." -H "X-TC-Version: ".$version.""
." -H "X-TC-Region: ".$region.""
." -d ".$payload.""";
echo $curl.PHP_EOL;
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'digest'
require 'json'
require 'time'
require 'openssl'

# Key Parameters
secret_id = 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****'
secret_key = 'Gu5t9xGARNpq86cd98joQYCN3*****'

service = 'cvm'
host = 'cvm.tencentcloudapi.com'
endpoint = 'https://' + host
region = 'ap-guangzhou'
action = 'DescribeInstances'
version = '2017-03-12'
algorithm = 'TC3-HMAC-SHA256'
# timestamp = Time.now.to_i
timestamp = 1551113065
date = Time.at(timestamp).utc.strftime('%Y-%m-%d')

# ***** Step 1: Concatenate the CanonicalRequest string *****
http_request_method = 'POST'
canonical_uri = '/'
canonical_querystring = ''
```

```

canonical_headers = "content-type:application/json; charset=utf-8\nhost:#{host}
\n"
signed_headers = 'content-type;host'
# params = { 'Limit' => 1, 'Filters' => [{ 'Name' => 'instance-name', 'Values' =>
['unnamed'] }] }
# payload = JSON.generate(params, { 'ascii_only' => true, 'space' => ' ' })
# json will generate in random order, to get specified result in example, we hard
-code it here.
payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-nam
e"}]}'
hashed_request_payload = Digest::SHA256.hexdigest(payload)
canonical_request = [
http_request_method,
canonical_uri,
canonical_querystring,
canonical_headers,
signed_headers,
hashed_request_payload,
].join("\n")

puts canonical_request

# ***** Step 2: Concatenate the string to sign *****
credential_scope = date + '/' + service + '/' + 'tc3_request'
hashed_request_payload = Digest::SHA256.hexdigest(canonical_request)
string_to_sign = [
algorithm,
timestamp.to_s,
credential_scope,
hashed_request_payload,
].join("\n")
puts string_to_sign

# ***** Step 3: Calculate the Signature *****
digest = OpenSSL::Digest.new('sha256')
secret_date = OpenSSL::HMAC.digest(digest, 'TC3' + secret_key, date)
secret_service = OpenSSL::HMAC.digest(digest, secret_date, service)
secret_signing = OpenSSL::HMAC.digest(digest, secret_service, 'tc3_request')
signature = OpenSSL::HMAC.hexdigest(digest, secret_signing, string_to_sign)
puts signature

# ***** Step 4: Concatenate the Authorization *****
authorization = "#{algorithm} Credential=#{secret_id}/#{credential_scope}, Signed
Headers=#{signed_headers}, Signature=#{signature}"
puts authorization

puts 'curl -X POST ' + endpoint \

```

```
+ ' -H "Authorization: ' + authorization + "' ' \
+ ' -H "Content-Type: application/json; charset=utf-8"' \
+ ' -H "Host: ' + host + "' ' \
+ ' -H "X-TC-Action: ' + action + "' ' \
+ ' -H "X-TC-Timestamp: ' + timestamp.to_s + "' ' \
+ ' -H "X-TC-Version: ' + version + "' ' \
+ ' -H "X-TC-Region: ' + region + "' ' \
+ " -d '" + payload + "'"
```

DotNet

```
using System;
using System.Collections.Generic;
using System.Security.Cryptography;
using System.Text;

public class Application
{
    public static string SHA256Hex(string s)
    {
        using (SHA256 algo = SHA256.Create())
        {
            byte[] hashbytes = algo.ComputeHash(Encoding.UTF8.GetBytes(s));
            StringBuilder builder = new StringBuilder();
            for (int i = 0; i < hashbytes.Length; ++i)
            {
                builder.Append(hashbytes[i].ToString("x2"));
            }
            return builder.ToString();
        }
    }

    public static byte[] HmacSHA256(byte[] key, byte[] msg)
    {
        using (HMACSHA256 mac = new HMACSHA256(key))
        {
            return mac.ComputeHash(msg);
        }
    }

    public static Dictionary<String, String> BuildHeaders(string secretid,
        string secretkey, string service, string endpoint, string region,
        string action, string version, DateTime date, string requestPayload)
    {
        string datestr = date.ToString("yyyy-MM-dd");
        DateTime startTime = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc);
        long requestTimestamp = (long)Math.Round((date - startTime).TotalMilliseconds, Mi
```

```
dpointRounding.AwayFromZero) / 1000;
// ***** Step 1: Concatenate the CanonicalRequest string *****
string algorithm = "TC3-HMAC-SHA256";
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string contentType = "application/json";
string canonicalHeaders = "content-type:" + contentType + "; charset=utf-8\n" +
"host:" + endpoint + "\n";
string signedHeaders = "content-type;host";
string hashedRequestPayload = SHA256Hex(requestPayload);
string canonicalRequest = httpRequestMethod + "\n"
+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload;
Console.WriteLine(canonicalRequest);
Console.WriteLine("-----");

// ***** Step 2: Concatenate the string to sign *****
string credentialScope = datestr + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = SHA256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + requestTimestamp.ToString() + "\n" + cre
dentialScope + "\n" + hashedCanonicalRequest;
Console.WriteLine(stringToSign);
Console.WriteLine("-----");

// ***** Step 3: Calculate the signature *****
byte[] tc3SecretKey = Encoding.UTF8.GetBytes("TC3" + secretkey);
byte[] secretDate = HmacSHA256(tc3SecretKey, Encoding.UTF8.GetBytes(datestr));
byte[] secretService = HmacSHA256(secretDate, Encoding.UTF8.GetBytes(service));
byte[] secretSigning = HmacSHA256(secretService, Encoding.UTF8.GetBytes("tc3_requ
est"));
byte[] signatureBytes = HmacSHA256(secretSigning, Encoding.UTF8.GetBytes(stringTo
Sign));
string signature = BitConverter.ToString(signatureBytes).Replace("-", "").ToLower
();
Console.WriteLine(signature);
Console.WriteLine("-----");

// ***** Step 4: Concatenate the Authorization *****
string authorization = algorithm + " "
+ "Credential=" + secretid + "/" + credentialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", "
+ "Signature=" + signature;
Console.WriteLine(authorization);
```

```
Console.WriteLine("-----");

Dictionary<string, string> headers = new Dictionary<string, string>();
headers.Add("Authorization", authorization);
headers.Add("Host", endpoint);
headers.Add("Content-Type", contentType + "; charset=utf-8");
headers.Add("X-TC-Timestamp", requestTimestamp.ToString());
headers.Add("X-TC-Version", version);
headers.Add("X-TC-Action", action);
headers.Add("X-TC-Region", region);
return headers;
}

public static void Main(string[] args)
{
    // SecretID and SecretKey
    string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

    string service = "cvm";
    string endpoint = "cvm.tencentcloudapi.com";
    string region = "ap-guangzhou";
    string action = "DescribeInstances";
    string version = "2017-03-12";

    // The timestamp `2019-02-26 00:44:25` used here is only for reference. In a project, use the following parameter:
    // DateTime date = DateTime.UtcNow;
    // Enter the correct time zone. We recommend using UTC timestamp to avoid errors.
    DateTime date = new DateTime(1970, 1, 1, 0, 0, 0, 0, DateTimeKind.Utc).AddSeconds(1551113065);
    string requestPayload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"\\u672a\\u547d\\u540d\"], \"Name\": \"instance-name\"}]}";

    Dictionary<string, string> headers = BuildHeaders(SECRET_ID, SECRET_KEY, service, endpoint, region, action, version, date, requestPayload);

    Console.WriteLine("POST https://cvm.tencentcloudapi.com");
    foreach (KeyValuePair<string, string> kv in headers)
    {
        Console.WriteLine(kv.Key + ": " + kv.Value);
    }
    Console.WriteLine();
    Console.WriteLine(requestPayload);
}
}
```

NodeJS

```
const crypto = require('crypto');

function sha256(message, secret = '', encoding) {
  const hmac = crypto.createHmac('sha256', secret)
  return hmac.update(message).digest(encoding)
}

function getHash(message, encoding = 'hex') {
  const hash = crypto.createHash('sha256')
  return hash.update(message).digest(encoding)
}

function getDate(timestamp) {
  const date = new Date(timestamp * 1000)
  const year = date.getUTCFullYear()
  const month = ('0' + (date.getUTCMonth() + 1)).slice(-2)
  const day = ('0' + date.getUTCDate()).slice(-2)
  return `${year}-${month}-${day}`
}

function main(){

const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"

const endpoint = "cvm.tencentcloudapi.com"
const service = "cvm"
const region = "ap-guangzhou"
const action = "DescribeInstances"
const version = "2017-03-12"
//const timestamp = getTime()
const timestamp = 1551113065
const date = getDate(timestamp)

// ***** Step 1: Concatenate the CanonicalRequest string *****
const signedHeaders = "content-type;host"

const payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}]}"

const hashedRequestPayload = getHash(payload);
const httpRequestMethod = "POST"
const canonicalUri = "/"
const canonicalQueryString = ""
const canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "host:" + endpoint + "\n"

const canonicalRequest = httpRequestMethod + "\n"
```

```

+ canonicalUri + "\n"
+ canonicalQueryString + "\n"
+ canonicalHeaders + "\n"
+ signedHeaders + "\n"
+ hashedRequestPayload
console.log(canonicalRequest)
console.log("-----")

// ***** Step 2: Concatenate the string to sign *****
const algorithm = "TC3-HMAC-SHA256"
const hashedCanonicalRequest = getHash(canonicalRequest);
const credentialScope = date + "/" + service + "/" + "tc3_request"
const stringToSign = algorithm + "\n" +
timestamp + "\n" +
credentialScope + "\n" +
hashedCanonicalRequest
console.log(stringToSign)
console.log("-----")

// ***** Step 3: Calculate the signature *****
const kDate = sha256(date, 'TC3' + SECRET_KEY)
const kService = sha256(service, kDate)
const kSigning = sha256('tc3_request', kService)
const signature = sha256(stringToSign, kSigning, 'hex')
console.log(signature)
console.log("-----")

// ***** Step 4: Concatenate the Authorization *****
const authorization = algorithm + " " +
"Credential=" + SECRET_ID + "/" + credentialScope + ", " +
"SignedHeaders=" + signedHeaders + ", " +
"Signature=" + signature
console.log(authorization)
console.log("-----")

const Call_Information = 'curl -X POST ' + "https://" + endpoint
+ ' -H "Authorization: ' + authorization + '"'
+ ' -H "Content-Type: application/json; charset=utf-8"'
+ ' -H "Host: ' + endpoint + '"'
+ ' -H "X-TC-Action: ' + action + '"'
+ ' -H "X-TC-Timestamp: ' + timestamp.toString() + '"'
+ ' -H "X-TC-Version: ' + version + '"'
+ ' -H "X-TC-Region: ' + region + '"'
+ " -d '" + payload + '"'
console.log(Call_Information)
}
main()
    
```


C++

```
#include <iostream>
#include <iomanip>
#include <sstream>
#include <string>
#include <stdio.h>
#include <time.h>
#include <openssl/sha.h>
#include <openssl/hmac.h>

using namespace std;

string get_data(int64_t &timestamp)
{
    string utcDate;
    char buff[20] = {0};
    // time_t timenow;
    struct tm sttime;
    sttime = *gmtime(&timestamp);
    strftime(buff, sizeof(buff), "%Y-%m-%d", &sttime);
    utcDate = string(buff);
    return utcDate;
}

string int2str(int64_t n)
{
    std::stringstream ss;
    ss << n;
    return ss.str();
}

string sha256Hex(const string &str)
{
    char buf[3];
    unsigned char hash[SHA256_DIGEST_LENGTH];
    SHA256_CTX sha256;
    SHA256_Init(&sha256);
    SHA256_Update(&sha256, str.c_str(), str.size());
    SHA256_Final(hash, &sha256);
    std::string NewString = "";
    for(int i = 0; i < SHA256_DIGEST_LENGTH; i++)
    {
        sprintf(buf, sizeof(buf), "%02x", hash[i]);
        NewString = NewString + buf;
    }
    return NewString;
}
```

```
}
string HmacSha256(const string &key, const string &input)
{
    unsigned char hash[32];

    HMAC_CTX *h;
    #if OPENSSSL_VERSION_NUMBER < 0x10100000L
    HMAC_CTX hmac;
    HMAC_CTX_init(&hmac);
    h = &hmac;
    #else
    h = HMAC_CTX_new();
    #endif

    HMAC_Init_ex(h, &key[0], key.length(), EVP_sha256(), NULL);
    HMAC_Update(h, ( unsigned char* )&input[0], input.length());
    unsigned int len = 32;
    HMAC_Final(h, hash, &len);

    #if OPENSSSL_VERSION_NUMBER < 0x10100000L
    HMAC_CTX_cleanup(h);
    #else
    HMAC_CTX_free(h);
    #endif

    std::stringstream ss;
    ss << std::setfill('0');
    for (int i = 0; i < len; i++)
    {
        ss << hash[i];
    }

    return (ss.str());
}
string HexEncode(const string &input)
{
    static const char* lut = "0123456789abcdef";
    size_t len = input.length();

    string output;
    output.reserve(2 * len);
    for (size_t i = 0; i < len; ++i)
    {
        const unsigned char c = input[i];
        output.push_back(lut[c >> 4]);
        output.push_back(lut[c & 15]);
    }
}
```

```

return output;
}

int main()
{
string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

string service = "cvm";
string host = "cvm.tencentcloudapi.com";
string region = "ap-guangzhou";
string action = "DescribeInstances";
string version = "2017-03-12";
int64_t timestamp = 1551113065;
string date = get_data(timestamp);

// ***** Step 1: Concatenate the CanonicalRequest string *****
string httpRequestMethod = "POST";
string canonicalUri = "/";
string canonicalQueryString = "";
string canonicalHeaders = "content-type:application/json; charset=utf-8\nhost:" +
host + "\n";
string signedHeaders = "content-type;host";
string payload = "{\"Limit\": 1, \"Filters\": [{\"Values\": [\"unnamed\"], \"Name\": \"instance-name\"}] }";
string hashedRequestPayload = sha256Hex(payload);
string canonicalRequest = httpRequestMethod + "\n" + canonicalUri + "\n" + canonicalQueryString + "\n"
+ canonicalHeaders + "\n" + signedHeaders + "\n" + hashedRequestPayload;
cout << canonicalRequest << endl;
cout << "-----" << endl;

// ***** Step 2: Concatenate the string to sign *****
string algorithm = "TC3-HMAC-SHA256";
string RequestTimestamp = int2str(timestamp);
string credentialScope = date + "/" + service + "/" + "tc3_request";
string hashedCanonicalRequest = sha256Hex(canonicalRequest);
string stringToSign = algorithm + "\n" + RequestTimestamp + "\n" + credentialScope + "\n" + hashedCanonicalRequest;
cout << stringToSign << endl;
cout << "-----" << endl;

// ***** Step 3: Calculate the signature *****
string kKey = "TC3" + SECRET_KEY;
string kDate = HmacSha256(kKey, date);
string kService = HmacSha256(kDate, service);
string kSigning = HmacSha256(kService, "tc3_request");
    
```

```

string signature = HexEncode(HmacSha256(kSigning, stringToSign));
cout << signature << endl;
cout << "-----" << endl;

// ***** Step 4: Concatenate the Authorization *****
string authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "SignedHeaders=" + signedHeaders + ", " + "Signature=" + signature;
cout << authorization << endl;
cout << "-----" << endl;

string headers = "curl -X POST https://" + host + "\n"
+ " -H \"Authorization: \" + authorization + "\n"
+ " -H \"Content-Type: application/json; charset=utf-8\" + "\n"
+ " -H \"Host: \" + host + "\n"
+ " -H \"X-TC-Action: \" + action + "\n"
+ " -H \"X-TC-Timestamp: \" + RequestTimestamp + "\n"
+ " -H \"X-TC-Version: \" + version + "\n"
+ " -H \"X-TC-Region: \" + region + "\n"
+ " -d '" + payload;
cout << headers << endl;
return 0;
};
    
```

Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error Code	Description
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes.
AuthFailure.SecretIdNotFound	The key does not exist. Please go to the console to check whether it is disabled or you copied fewer or more characters.
AuthFailure.SignatureFailure	Signature error. It is possible that the signature was calculated incorrectly, the signature does not match the content actually sent, or the SecretKey is incorrect.
AuthFailure.TokenFailure	Temporary certificate token error.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).

Signature

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Tencent Cloud API authenticates each access request, i.e. each request needs to include authentication information (Signature) in the common parameters to verify the identity of the requester.

The Signature is generated by the security credentials which include SecretId and SecretKey. If you don't have the security credentials yet, go to the [TencentCloud API Key](#) page to apply for them; otherwise, you cannot invoke the TencentCloud API.

1. Applying for Security Credentials

Before using the TencentCloud API for the first time, go to the [TencentCloud API Key](#) page to apply for security credentials.

Security credentials consist of SecretId and SecretKey:

- SecretId is used to identify the API requester.
- SecretKey is used to encrypt the signature string and verify it on the server.
- **You must keep your security credentials private and avoid disclosure.**

You can apply for the security credentials through the following steps:

1. Log in to the [Tencent Cloud Console](#).
2. Go to the [TencentCloud API Key](#) page.
3. On the [API Key Management](#) page, click **Create Key** to create a SecretId/SecretKey pair.

Note: Each account can have up to two pairs of SecretId/SecretKey.

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

- SecretId: AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
- SecretKey: Gu5t9xGARNpq86cd98joQYCN3*****

Note: This is just an example. For actual operations, please use your own SecretId and SecretKey.

Take the Cloud Virtual Machine's request to view the instance list (DescribeInstances) as an example. When you invoke this API, the request parameters may be as follows:

Parameter name	Description	Parameter value
Action	Method name	DescribeInstances
SecretId	Key ID	AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****
Timestamp	Current timestamp	1465185768
Nonce	Random positive integer	11886
Region	Region where the instance is located	ap-guangzhou
InstanceIds.0	ID of the instance to query	ins-09dx96dg
Offset	Offset	0
Limit	Allowed maximum output	20
Version	API version number	2017-03-12

2.1. Sorting Parameters

First, sort all the request parameters in an ascending lexicographical order (ASCII code) by their names. Notes: (1) Parameters are sorted by their names instead of their values; (2) The parameters are sorted based on ASCII code, not in an alphabetical order or by values. For example, InstanceIds.2 should be arranged after InstanceIds.12. You can complete the sorting process using a sorting function in a programming language, such as the ksort function in PHP. The parameters in the example are sorted as follows:

```
{
  'Action' : 'DescribeInstances',
  'InstanceIds.0' : 'ins-09dx96dg',
  'Limit' : 20,
  'Nonce' : 11886,
  'Offset' : 0,
  'Region' : 'ap-guangzhou',
  'SecretId' : 'AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****',
  'Timestamp' : 1465185768,
  'Version' : '2017-03-12',
}
```

When developing in another programming language, you can sort these sample parameters and it will work as long as you obtain the same results.

2.2. Concatenating a Request String

This step generates a request string.

Format the request parameters sorted in the previous step into the form of "parameter name"="parameter value". For example, for the Action parameter, its parameter name is "Action" and its parameter value is "DescribeInstances", so it will become Action=DescribeInstances after formatted.

Note: The "parameter value" is the original value but not the value after URL encoding.

Then, concatenate the formatted parameters with "&". The resulting request string is as follows:

```
Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0
&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Timestamp=1465
185768&Version=2017-03-12
```

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

1. HTTP method: POST and GET modes are supported, and GET is used here for the request. Please note that the method name should be in all capital letters.
2. Request server: the domain name of the request to view the list of instances (DescribeInstances) is cvm.tencentcloudapi.com. The actual request domain name varies by the module to which the API belongs. For more information, see the instructions of the specific API.
3. Request path: The request path in the current version of TencentCloud API is fixed to /.
4. Request string: the request string generated in the previous step.

The concatenation rule of the signature original string is: Request method + request host + request path + ? + request string

The concatenation result of the example is:

```
GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&L
imit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WF
kmLPx3*****&Timestamp=1465185768&Version=2017-03-12
```

2.4. Generating a Signature String

This step generates a signature string.

First, use the HMAC-SHA1 algorithm to sign the **signature original string** obtained in the previous step, and then

encode the generated signature using Base64 to obtain the final signature.

The specific code is as follows with the PHP language being used as an example:

```
$secretKey = 'Gu5t9xGARNpq86cd98joQYCN3*****';
$srcStr = 'GETcvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Timestamp=1465185768&Version=2017-03-12';
$signStr = base64_encode(hash_hmac('sha1', $srcStr, $secretKey, true));
echo $signStr;
```

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

When developing in another programming language, you can sign and verify the original in the example above and it works as long as you get the same results.

3. Encoding a Signature String

The generated signature string cannot be directly used as a request parameter and must be URL encoded.

For example, if the signature string generated in the previous step is `zmmjn35mikh6pM3V7sUEuX4wyYM=`, the final signature string request parameter (Signature) is `zmmjn35mikh6pM3V7sUEuX4wyYM%3D`, which will be used to generate the final request URL.

Note: If your request method is GET, or the request method is POST and the Content-Type is `application/x-www-form-urlencoded`, then all the request parameter values need to be URL encoded (except the parameter key and the symbol of =) when sending the request. Non-ASCII characters need to be encoded with UTF-8 before URL encoding.

Note: The network libraries of some programming languages automatically URL encode all parameters, in which case there is no need to URL encode the signature string; otherwise, two rounds of URL encoding will cause the signature to fail.

Note: Other parameter values also need to be encoded using [RFC 3986](#). Use %XY in percent-encoding for special characters such as Chinese characters, where "X" and "Y" are hexadecimal characters (0-9 and uppercase A-F), and using lowercase will cause an error.

4. Signature Failure

The following situational error codes for signature failure may occur. Please resolve the errors accordingly.

Error code	Error description
AuthFailure.SignatureExpire	The signature is expired
AuthFailure.SecretIdNotFound	The key does not exist
AuthFailure.SignatureFailure	Signature error
AuthFailure.TokenFailure	Token error
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type)

5. Signature Demo

When calling API 3.0, you are recommended to use the corresponding Tencent Cloud SDK 3.0 which encapsulates the signature process, enabling you to focus on only the specific APIs provided by the product when developing. See [SDK Center](#) for more information. Currently, the following programming languages are supported:

- [Python](#)
- [Java](#)
- [PHP](#)
- [Go](#)
- [NodeJS](#)
- [.NET](#)

To further explain the signing process, we will use a programming language to implement the process described above. The request domain name, API and parameter values in the sample are used here. This goal of this example is only to provide additional clarification for the signature process, please see the SDK for actual usage.

The final output URL might be: `https://cvm.tencentcloudapi.com/?Action=DescribeInstances&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****&Signature=zmmjn35mikh6pM3V7sUEuX4wyYM%3D&Timestamp=1465185768&Version=2017-03-12` .

Note: The key in the example is fictitious, and the timestamp is not the current time of the system, so if this URL is opened in the browser or called using commands such as curl, an authentication error will be returned: Signature expired. In order to get a URL that can work properly, you need to replace the SecretId and SecretKey in the example with your real credentials and use the current time of the system as the Timestamp.

Note: In the example below, even if you use the same programming language, the order of the parameters in the URL may be different for each execution. However, the order does not matter, as long as all the parameters are included in the URL and the signature is calculated correctly.

Note: The following code is only applicable to API 3.0. It cannot be directly used in other signature processes. Even with an older API, signature calculation errors may occur due to the differences in details. Please refer to the corresponding documentation.

Java

```
import java.io.UnsupportedEncodingException;
import java.net.URLEncoder;
import java.util.Random;
import java.util.TreeMap;
import javax.crypto.Mac;
import javax.crypto.spec.SecretKeySpec;
import javax.xml.bind.DatatypeConverter;

public class TencentCloudAPIDemo {
    private final static String CHARSET = "UTF-8";

    public static String sign(String s, String key, String method) throws Exception {
        Mac mac = Mac.getInstance(method);
        SecretKeySpec secretKeySpec = new SecretKeySpec(key.getBytes(CHARSET), mac.getAlgorithm());
        mac.init(secretKeySpec);
        byte[] hash = mac.doFinal(s.getBytes(CHARSET));
        return DatatypeConverter.printBase64Binary(hash);
    }

    public static String getStringToSign(TreeMap<String, Object> params) {
        StringBuilder s2s = new StringBuilder("GETcvm.tencentcloudapi.com/?");
        // When signing, the parameters need to be sorted in lexicographical order. TreeMap
        // is used here to guarantee the correct order.
        for (String k : params.keySet()) {
            s2s.append(k).append("=").append(params.get(k).toString()).append("&");
        }
        return s2s.toString().substring(0, s2s.length() - 1);
    }

    public static String getUrl(TreeMap<String, Object> params) throws UnsupportedEncodingException {
        StringBuilder url = new StringBuilder("https://cvm.tencentcloudapi.com/?");
        // There is no requirement for the order of the parameters in the actual request
        // URL.
        for (String k : params.keySet()) {
```

```
// The request string needs to be URL encoded. As the Key is all in English letters, only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHARSET)).append("&");
}
return url.toString().substring(0, url.length() - 1);
}

public static void main(String[] args) throws Exception {
    TreeMap<String, Object> params = new TreeMap<String, Object>(); // TreeMap enables automatic sorting
    // A random number should be used when actually calling, for example: params.put("Nonce", new Random().nextInt(Integer.MAX_VALUE));
    params.put("Nonce", 11886); // Common parameter
    // The current time of the system should be used when actually calling, for example: params.put("Timestamp", System.currentTimeMillis() / 1000);
    params.put("Timestamp", 1465185768); // Common parameter
    params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"); // Common parameter
    params.put("Action", "DescribeInstances"); // Common parameter
    params.put("Version", "2017-03-12"); // Common parameter
    params.put("Region", "ap-guangzhou"); // Common parameter
    params.put("Limit", 20); // Business parameter
    params.put("Offset", 0); // Business parameter
    params.put("InstanceIds.0", "ins-09dx96dg"); // Business parameter
    params.put("Signature", sign(getStringToSign(params), "Gu5t9xGARNpq86cd98joQYCN3*****", "HmacSHA1")); // Common parameter
    System.out.println(getUrl(params));
}
}
```

Python

Note: If running in a Python 2 environment, the following requests dependency package must be installed first: `pip install requests`.

```
# -*- coding: utf8 -*-
import base64
import hashlib
import hmac
import time

import requests

secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"
```

```
def get_string_to_sign(method, endpoint, params):
    s = method + endpoint + "?"
    query_str = "&".join("%s=%s" % (k, params[k]) for k in sorted(params))
    return s + query_str

def sign_str(key, s, method):
    hmac_str = hmac.new(key.encode("utf8"), s.encode("utf8"), method).digest()
    return base64.b64encode(hmac_str)

if __name__ == '__main__':
    endpoint = "cvm.tencentcloudapi.com"
    data = {
        'Action': 'DescribeInstances',
        'InstanceIds.0': 'ins-09dx96dg',
        'Limit': 20,
        'Nonce': 11886,
        'Offset': 0,
        'Region': 'ap-guangzhou',
        'SecretId': secret_id,
        'Timestamp': 1465185768, # int(time.time())
        'Version': '2017-03-12'
    }
    s = get_string_to_sign("GET", endpoint, data)
    data["Signature"] = sign_str(secret_key, s, hashlib.sha1)
    print(data["Signature"])
    # An actual invocation would occur here, which may incur fees after success
    # resp = requests.get("https://" + endpoint, params=data)
    # print(resp.url)
```

Golang

```
package main

import (
    "bytes"
    "crypto/hmac"
    "crypto/sha1"
    "encoding/base64"
    "fmt"
    "sort"
)

func main() {
    secretId := "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"
```

```
params := map[string]string{
    "Nonce": "11886",
    "Timestamp": "1465185768",
    "Region": "ap-guangzhou",
    "SecretId": secretId,
    "Version": "2017-03-12",
    "Action": "DescribeInstances",
    "InstanceIds.0": "ins-09dx96dg",
    "Limit": "20",
    "Offset": "0",
}

var buf bytes.Buffer
buf.WriteString("GET")
buf.WriteString("cvm.tencentcloudapi.com")
buf.WriteString("/")
buf.WriteString("?")

// sort keys by ascii asc order
keys := make([]string, 0, len(params))
for k, _ := range params {
    keys = append(keys, k)
}
sort.Strings(keys)

for i := range keys {
    k := keys[i]
    buf.WriteString(k)
    buf.WriteString("=")
    buf.WriteString(params[k])
    buf.WriteString("&")
}
buf.Truncate(buf.Len() - 1)

hashed := hmac.New(sha1.New, []byte(secretKey))
hashed.Write(buf.Bytes())

fmt.Println(base64.StdEncoding.EncodeToString(hashed.Sum(nil)))
}
```

PHP

```
<?php
$secretId = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
$secretKey = "Gu5t9xGARNpq86cd98joQYCN3*****";
$params["Nonce"] = 11886;//rand();
```

```
$param["Timestamp"] = 1465185768;//time();
$params["Region"] = "ap-guangzhou";
$params["SecretId"] = $secretId;
$params["Version"] = "2017-03-12";
$params["Action"] = "DescribeInstances";
$params["InstanceIds.0"] = "ins-09dx96dg";
$params["Limit"] = 20;
$params["Offset"] = 0;

ksort($param);

$signStr = "GETcvm.tencentcloudapi.com/?";
foreach ($param as $key => $value) {
    $signStr = $signStr . $key . "=" . $value . "&";
}
$signStr = substr($signStr, 0, -1);

$signature = base64_encode(hash_hmac("sha1", $signStr, $secretKey, true));
echo $signature.PHP_EOL;
// need to install and enable curl extension in php.ini
// $params["Signature"] = $signature;
// $url = "https://cvm.tencentcloudapi.com/?".http_build_query($param);
// echo $url.PHP_EOL;
// $ch = curl_init();
// curl_setopt($ch, CURLOPT_URL, $url);
// $output = curl_exec($ch);
// curl_close($ch);
// echo json_decode($output);
```

Ruby

```
# -*- coding: UTF-8 -*-
# require ruby>=2.3.0
require 'time'
require 'openssl'
require 'base64'

secret_id = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
secret_key = "Gu5t9xGARNpq86cd98joQYCN3*****"

method = 'GET'
endpoint = 'cvm.tencentcloudapi.com'
data = {
  'Action' => 'DescribeInstances',
  'InstanceIds.0' => 'ins-09dx96dg',
  'Limit' => 20,
```

```

'Nonce' => 11886,
'Offset' => 0,
'Region' => 'ap-guangzhou',
'SecretId' => secret_id,
'Timestamp' => 1465185768, # Time.now.to_i
'Version' => '2017-03-12',
}
sign = method + endpoint + '/?'
params = []
data.sort.each do |item|
params << "#{item[0]}=#{item[1]}"
end
sign += params.join('&')
digest = OpenSSL::Digest.new('sha1')
data['Signature'] = Base64.encode64(OpenSSL::HMAC.digest(digest, secret_key, sign))
puts data['Signature']

# require 'net/http'
# uri = URI('https://' + endpoint)
# uri.query = URI.encode_www_form(data)
# p uri
# res = Net::HTTP.get_response(uri)
# puts res.body
    
```

DotNet

```

using System;
using System.Collections.Generic;
using System.Net;
using System.Security.Cryptography;
using System.Text;

public class Application {
public static string Sign(string signKey, string secret)
{
string signRet = string.Empty;
using (HMACSHA1 mac = new HMACSHA1(Encoding.UTF8.GetBytes(signKey)))
{
byte[] hash = mac.ComputeHash(Encoding.UTF8.GetBytes(secret));
signRet = Convert.ToBase64String(hash);
}
return signRet;
}

public static string MakeSignPlainText(SortedDictionary<string, string> requestParams, string requestMethod, string requestHost, string requestPath)
    
```

```

{
    string retStr = "";
    retStr += requestMethod;
    retStr += requestHost;
    retStr += requestPath;
    retStr += "?";
    string v = "";
    foreach (string key in requestParams.Keys)
    {
        v += string.Format("{0}={1}&", key, requestParams[key]);
    }
    retStr += v.TrimEnd('&');
    return retStr;
}

public static void Main(string[] args)
{
    string SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****";
    string SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****";

    string endpoint = "cvm.tencentcloudapi.com";
    string region = "ap-guangzhou";
    string action = "DescribeInstances";
    string version = "2017-03-12";
    double RequestTimestamp = 1465185768;
    // long timestamp = ToTimestamp() / 1000;
    // string requestTimestamp = timestamp.ToString();
    Dictionary<string, string> param = new Dictionary<string, string>();
    param.Add("Limit", "20");
    param.Add("Offset", "0");
    param.Add("InstanceIds.0", "ins-09dx96dg");
    param.Add("Action", action);
    param.Add("Nonce", "11886");
    // param.Add("Nonce", Math.Abs(new Random().Next()).ToString());

    param.Add("Timestamp", RequestTimestamp.ToString());
    param.Add("Version", version);

    param.Add("SecretId", SECRET_ID);
    param.Add("Region", region);
    SortedDictionary<string, string> headers = new SortedDictionary<string, string>(p
    am, StringComparer.Ordinal);
    string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
    Console.WriteLine(sigInParam);
    string sigOutParam = Sign(SECRET_KEY, sigInParam);
}

```



```

Console.WriteLine("GET https://cvm.tencentcloudapi.com");
foreach (KeyValuePair<string, string> kv in headers)
{
    Console.WriteLine(kv.Key + ": " + kv.Value);
}
Console.WriteLine("Signature" + ": " + WebUtility.UrlEncode(sigOutParam));
Console.WriteLine();

string result = "https://cvm.tencentcloudapi.com/?";
foreach (KeyValuePair<string, string> kv in headers)
{
    result += WebUtility.UrlEncode(kv.Key) + "=" + WebUtility.UrlEncode(kv.Value) +
"&";
}
result += WebUtility.UrlEncode("Signature") + "=" + WebUtility.UrlEncode(sigOutPa
ram);
Console.WriteLine("GET " + result);
}
}
    
```

NodeJS

```

const crypto = require('crypto');

function get_req_url(params, endpoint){
    params['Signature'] = escape(params['Signature']);
    const url_strParam = sort_params(params)
    return "https://" + endpoint + "/" + url_strParam.slice(1);
}

function formatSignString(reqMethod, endpoint, path, strParam){
    let strSign = reqMethod + endpoint + path + "?" + strParam.slice(1);
    return strSign;
}

function sha1(secretKey, strsign){
    let signMethodMap = {'HmacSHA1': "sha1"};
    let hmac = crypto.createHmac(signMethodMap['HmacSHA1'], secretKey || "");
    return hmac.update(Buffer.from(strsign, 'utf8')).digest('base64')
}

function sort_params(params) {
    let strParam = "";
    let keys = Object.keys(params);
    keys.sort();
    for (let k in keys) {
        //k = k.replace(/_/g, '.');
    }
}
    
```

```

strParam += ("%&" + keys[k] + "=" + params[keys[k]]);
}
return strParam
}

function main(){
const SECRET_ID = "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*****"
const SECRET_KEY = "Gu5t9xGARNpq86cd98joQYCN3*****"

const endpoint = "cvm.tencentcloudapi.com"
const Region = "ap-guangzhou"
const Version = "2017-03-12"
const Action = "DescribeInstances"
const Timestamp = 1465185768
// const Timestamp = Math.round(Date.now() / 1000)
const Nonce = 11886
//const nonce = Math.round(Math.random() * 65535)

let params = {};
params['Action'] = Action;
params['InstanceIds.0'] = 'ins-09dx96dg';
params['Limit'] = 20;
params['Offset'] = 0;
params['Nonce'] = Nonce;
params['Region'] = Region;
params['SecretId'] = SECRET_ID;
params['Timestamp'] = Timestamp;
params['Version'] = Version;

strParam = sort_params(params)

const reqMethod = "GET";
const path = "/";
strSign = formatSignString(reqMethod, endpoint, path, strParam)
console.log(strSign)
console.log("-----")

params['Signature'] = sha1(SECRET_KEY, strSign)
console.log(params['Signature'])
console.log("-----")

const req_url = get_req_url(params, endpoint)
console.log(params['Signature'])
console.log("-----")
console.log(req_url)
}
main()
    
```


Responses

最近更新时间：2024-01-24 11:22:41

Response for Successful Requests

For example, when calling CAM API (version: 2017-03-12) to view the status of instances (DescribeInstancesStatus), if the request has succeeded, you may see the response as shown below:

```
{
  "Response": {
    "TotalCount": 0,
    "InstanceStatusSet": [],
    "RequestId": "b5b41468-520d-4192-b42f-595cc34b6c1c"
  }
}
```

- The API will return `Response`, which contains `RequestId`, as long as it processes the request. It does not matter if the request is successful or not.
- `RequestId` is the unique ID of an API request. Contact us with this ID when an exception occurs.
- Except for the fixed fields, all fields are action-specified. For the definitions of action-specified fields, see the corresponding API documentation. In this example, `TotalCount` and `InstanceStatusSet` are the fields specified by the API `DescribeInstancesStatus`. `0` `TotalCount` means that the requester owns 0 CVM instance so the `InstanceStatusSet` is empty.

Response for Failed Requests

If the request has failed, you may see the response as shown below:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please ensure your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

- The presence of the `Error` field indicates that the request has failed. A response for a failed request will include `Error`, `Code` and `Message` fields.
- `Code` is the code of the error that helps you identify the cause and solution. There are two types of error codes so you may find the code in either common error codes or API-specified error codes.
- Message explains the cause of the error. Note that the returned messages are subject to service updates. The information the messages provide may not be up-to-date and should not be the only source of reference.
- RequestId is the unique ID of an API request. Contact us with this ID when an exception occurs.

Common Error Codes

If there is an Error field in the response, it means that the API call failed. The Code field in Error indicates the error code. The following table lists the common error codes that all actions can return.

Error Code	Description
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	The key does not exist.
AuthFailure.SignatureExpire	Signature expired.
AuthFailure.SignatureFailure	Signature error.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request does not have CAM authorization.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.

NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTPS request method error. Only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Channel Management APIs

CreateStreamLiveChannel

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1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to create a StreamLive channel.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateStreamLiveChannel.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Name	Yes	String	Channel name, which can contain 1-32 case-sensitive letters, digits, and underscores and must be unique at the region level
AttachedInputs.N	Yes	Array of AttachedInput	Inputs to attach. You can attach 1 to 5 inputs.

OutputGroups.N	Yes	Array of StreamLiveOutputGroupsInfo	Configuration information of the channel's output groups. Quantity: [1, 10]
AudioTemplates.N	No	Array of AudioTemplateInfo	Audio transcoding templates. Quantity: [1, 20]
VideoTemplates.N	No	Array of VideoTemplateInfo	Video transcoding templates. Quantity: [1, 10]
AVTemplates.N	No	Array of AVTemplate	Audio/Video transcoding templates. Quantity: [1, 10]
PlanSettings	No	PlanSettings	Event settings
EventNotifySettings	No	EventNotifySetting	The callback settings.
InputLossBehavior	No	InputLossBehaviorInfo	Complement the last video frame settings.
PipelineInputSettings	No	PipelineInputSettingsInfo	Pipeline configuration.

3. Output Parameters

Parameter Name	Type	Description
Id	String	Channel ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateStreamLiveChannel
<Common request parameters>
```



```
{
  "AudioTemplates": [
    {
      "AudioBitrate": "112000",
      "AudioSelectorName": "eng",
      "LanguageCode": "eng",
      "Name": "test1",
      "Acodec": "AAC"
    }
  ],
  "OutputGroups": [
    {
      "Name": "outputGroup",
      "Outputs": [
        {
          "Scte35Settings": {
            "Behavior": "PASSTHROUGH"
          },
          "Name": "output"
        }
      ],
      "DrmSettings": {
        "ContentId": "12312dsde2",
        "State": "OPEN"
      },
      "DashRemuxSettings": {
        "SegmentNumber": "3",
        "PeriodTriggers": "OPEN",
        "SegmentDuration": "2000"
      },
      "Type": "HLS",
      "HlsRemuxSettings": {
        "SegmentNumber": "3",
        "PdtInsertion": "OPEN",
        "SegmentDuration": "2000",
        "PdtDuration": "600"
      },
      "Destinations": [
        {
          "AuthKey": "aaaa",
          "Username": "bbbb",
          "OutputUrl": "http://domain/live/1233",
          "Password": "cccc"
        }
      ]
    }
  ]
}
```

```
],
"VideoTemplates": [
{
"Name": "test2",
"VideoBitrate": "1000000",
"Vcodec": "H264",
"Height": "1080",
"Width": "1920",
"Fps": "60"
}
],
"Name": "channel",
"AttachedInputs": [
{
"AudioSelectors": [
{
"AudioPidSelection": {
"Pid": "256"
},
"Name": "eng"
}
],
"Id": "EEEEEE"
}
]
}
```

Output Example

```
{
"Response": {
"Id": "sda",
"RequestId": "11-222-222"
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)

- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter.AVTemplates	Audio/Video transcoding template error
InvalidParameter.AlreadyAssociatedChannel	<code>Channel</code> already associated.
InvalidParameter.AttachedInputs	Invalid <code>AttachedInputs</code> .
InvalidParameter.AudioTemplates	Incorrect audio transcoding template.
InvalidParameter.ExceededQuantityLimit	The quantity exceeds the limit.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.Name	Invalid <code>Name</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.NotifyKey	Callback key format error.
InvalidParameter.NotifyUrl	Callback URL format error.
InvalidParameter.OutputGroups	Invalid <code>OutputGroups</code> .
InvalidParameter.VideoTemplates	Incorrect video transcoding template.

DeleteStreamLiveChannel

最近更新时间：2024-01-24 11:22:53

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to delete a StreamLive channel.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteStreamLiveChannel.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Channel ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DeleteStreamLiveChannel
&Id=12312
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "11-222-222"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.State	Exceptional status.
InvalidParameter.StateError	Incorrect status.

DescribeStreamLiveChannel

最近更新时间：2024-01-24 11:22:53

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query a StreamLive channel.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveChannel.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Channel ID

3. Output Parameters

Parameter Name	Type	Description
Info	StreamLiveChannelInfo	Channel information

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DescribeStreamLiveChannel
&Id=AB458E
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Info": {
      "Id": "5E95AB6430E630731B8B",
      "Name": "555",
      "State": "IDLE",
      "AttachedInputs": [
        {
          "Id": "5E8EEA7B30E6131D85CB",
          "AudioSelectors": [
            {
              "Name": "7777",
              "AudioPidSelection": {
                "Pid": 888
              }
            }
          ]
        }
      ],
      "AudioTemplates": [
        {
          "Name": "test1",
          "Acodec": "AAC",
          "AudioBitrate": 6000,
          "AudioSelectorName": "7777",
          "LanguageCode": "eng"
        }
      ],
      "VideoTemplates": [
```



```
{
  "Name": "test2",
  "Vcodec": "H264",
  "VideoBitrate": 1000000,
  "Width": 1024,
  "Height": 1024,
  "Fps": 30
},
"AVTemplates": [
  {
    "AudioBitrate": 1,
    "Name": "name",
    "VideoBitrate": 1,
    "Vcodec": "H264",
    "Acodec": "AAC",
    "Height": 1080,
    "Width": 1920,
    "NeedAudio": 1,
    "Fps": 30,
    "TopSpeed": "OPEN",
    "RateControlMode": "ABR",
    "NeedVideo": 1,
    "BitrateCompressionRatio": 0
  },
  {
    "Name": "9999",
    "Type": "DASH",
    "HlsRemuxSettings": {
      "SegmentDuration": 0,
      "SegmentNumber": 0,
      "PdtInsertion": "CLOSE",
      "PdtDuration": 0
    },
    "DashRemuxSettings": {
      "SegmentDuration": 2000,
      "SegmentNumber": 3,
      "PeriodTriggers": "OPEN"
    },
    "DrmSettings": {
      "State": "OPEN",
      "ContentId": "f28d75a5-d386-4c5c-acce-779b4896cf0d"
    }
  }
],
"OutputGroups": [
  {
    "Name": "9999",
    "Type": "DASH",
    "HlsRemuxSettings": {
      "SegmentDuration": 0,
      "SegmentNumber": 0,
      "PdtInsertion": "CLOSE",
      "PdtDuration": 0
    },
    "DashRemuxSettings": {
      "SegmentDuration": 2000,
      "SegmentNumber": 3,
      "PeriodTriggers": "OPEN"
    },
    "DrmSettings": {
      "State": "OPEN",
      "ContentId": "f28d75a5-d386-4c5c-acce-779b4896cf0d"
    }
  }
],
"Outputs": [
  {
```

```
"Name": "11111122222",
"AudioTemplateNames": [
  "test1"
],
"VideoTemplateNames": [
  "test2"
],
"Scte35Settings": {
  "Behavior": "PASSTHROUGH"
}
},
"Destinations": [
  {
    "OutputUrl": "http://domain/live/1233",
    "AuthKey": "2323",
    "Username": "24343",
    "Password": ""
  },
  {
    "OutputUrl": "http://domain/live/222",
    "AuthKey": "dsds",
    "Username": "443",
    "Password": "666"
  }
]
},
"RequestId": "11-222-333"
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)

- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.

DescribeStreamLiveChannels

最近更新时间：2024-01-24 11:22:53

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query StreamLive channels in batches.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveChannels.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
Infos	Array of StreamLiveChannelInfo	List of channel information Note: this field may return <code>null</code> , indicating that no valid value was found.

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DescribeStreamLiveChannels
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Infos": [
      {
        "Id": "5E95AB6430E630731B8B",
        "Name": "555",
        "State": "IDLE",
        "AttachedInputs": [
          {
            "Id": "5E8EEA7B30E6131D85CB",
            "AudioSelectors": [
              {
                "Name": "7777",
                "AudioPidSelection": {
                  "Pid": 888
                }
              }
            ]
          }
        ],
        "AudioTemplates": [
          {
            "Name": "test1",
            "Acodec": "AAC",
            "AudioBitrate": 6000,
            "AudioSelectorName": "7777",
            "LanguageCode": "eng"
          }
        ]
      }
    ]
  }
}
```

```
"VideoTemplates": [
  {
    "Name": "test2",
    "Vcodec": "H264",
    "VideoBitrate": 1000000,
    "Width": 1024,
    "Height": 1024,
    "Fps": 30
  }
],
"OutputGroups": [
  {
    "Name": "9999",
    "HlsRemuxSettings": {
      "SegmentDuration": 0,
      "SegmentNumber": 0,
      "PdtInsertion": "CLOSE",
      "PdtDuration": 0
    },
    "DashRemuxSettings": {
      "SegmentDuration": 2000,
      "SegmentNumber": 3,
      "PeriodTriggers": "OPEN"
    },
    "DrmSettings": {
      "State": "OPEN",
      "ContentId": "f28d75a5-d386-4c5c-acce-779b4896cf0d"
    },
    "Outputs": [
      {
        "Name": "11111122222",
        "AudioTemplateNames": [
          "test1"
        ],
        "VideoTemplateName": [
          "test2"
        ],
        "Scte35Settings": {
          "Behavior": "PASSTHROUGH"
        }
      }
    ],
    "Destinations": [
      {
        "OutputUrl": "http://domain/live/1233",
        "AuthKey": "2323",
        "Username": "24343",

```

```
"Password": ""
},
{
  "OutputUrl": "http://domain/live/222",
  "AuthKey": "dsds",
  "Username": "443",
  "Password": "666"
}
]
}
]
}
],
"RequestId": "11-222-333"
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

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Error Code	Description
InternalError	Internal error.

ModifyStreamLiveChannel

最近更新时间：2024-01-24 11:22:52

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to modify a StreamLive channel.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyStreamLiveChannel.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Channel ID
Name	Yes	String	Channel name, which can contain 1-32 case-sensitive letters, digits, and underscores and must be unique at the region level
AttachedInputs.N	Yes	Array of AttachedInput	Inputs to attach. You can attach 1 to 5 inputs.

OutputGroups.N	Yes	Array of StreamLiveOutputGroupsInfo	Configuration information of the channel's output groups. Quantity: [1, 10]
AudioTemplates.N	No	Array of AudioTemplateInfo	Audio transcoding templates. Quantity: [1, 20]
VideoTemplates.N	No	Array of VideoTemplateInfo	Video transcoding templates. Quantity: [1, 10]
AVTemplates.N	No	Array of AVTemplate	Audio/Video transcoding templates. Quantity: [1, 10]
PlanSettings	No	PlanSettings	Event settings
EventNotifySettings	No	EventNotifySetting	The callback settings.
InputLossBehavior	No	InputLossBehaviorInfo	Complement the last video frame settings.
PipelineInputSettings	No	PipelineInputSettingsInfo	Pipeline configuration.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```

POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyStreamLiveChannel
<Common request parameters>

{
    
```

```
"Name": "channel",
"OutputGroups": [
{
  "Name": "outputGroup",
  "Outputs": [
    {
      "Scte35Settings": {
        "Behavior": "PASSTHROUGH"
      },
      "Name": "output"
    }
  ],
  "DrmSettings": {
    "ContentId": "12312dsde2",
    "State": "OPEN"
  },
  "DashRemuxSettings": {
    "SegmentNumber": "3",
    "PeriodTriggers": "OPEN",
    "SegmentDuration": "2000"
  },
  "Type": "DASH",
  "HlsRemuxSettings": {
    "SegmentNumber": "3",
    "PdtInsertion": "OPEN",
    "SegmentDuration": "2000",
    "PdtDuration": "600"
  },
  "Destinations": [
    {
      "AuthKey": "aaaa",
      "Username": "bbbb",
      "OutputUrl": "http://domain/live/1233",
      "Password": "cccc"
    }
  ]
},
"VideoTemplates": [
{
  "Name": "test2",
  "VideoBitrate": "1000000",
  "Vcodec": "H264",
  "Height": "1080",
  "Width": "1920",
  "Fps": "60"
}
```

```
],
  "AttachedInputs": [
    {
      "AudioSelectors": [
        {
          "AudioPidSelection": {
            "Pid": "256"
          },
          "Name": "eng"
        }
      ],
      "Id": "EEEEEE"
    }
  ],
  "AudioTemplates": [
    {
      "AudioBitrate": "112000",
      "AudioSelectorName": "eng",
      "LanguageCode": "eng",
      "Name": "test1",
      "Acodec": "AAC"
    }
  ],
  "Id": "ESASD13437"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "11-222-222"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)

- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.AVTemplates	Audio/Video transcoding template error
InvalidParameter.AlreadyAssociatedChannel	<code>Channel</code> already associated.
InvalidParameter.AttachedInputs	Invalid <code>AttachedInputs</code> .
InvalidParameter.AudioTemplates	Incorrect audio transcoding template.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.Name	Invalid <code>Name</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.OutputGroups	Invalid <code>OutputGroups</code> .
InvalidParameter.VideoTemplates	Incorrect video transcoding template.

StartStreamLiveChannel

最近更新时间：2024-01-24 11:22:52

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to start a StreamLive channel.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: StartStreamLiveChannel.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Channel ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=StartStreamLiveChannel
&Id=AB458E
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "11-222-222"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.StateError	Incorrect status.

StopStreamLiveChannel

最近更新时间：2024-01-24 11:22:51

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to stop a StreamLive channel.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: StopStreamLiveChannel.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Channel ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=StopStreamLiveChannel
&Id=AB458E
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "11-222-222"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.StateError	Incorrect status.

Input Management APIs

CreateStreamLiveInput

最近更新时间：2024-01-24 11:22:51

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to create a StreamLive input.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateStreamLiveInput.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Name	Yes	String	Input name, which can contain 1-32 case-sensitive letters, digits, and underscores and must be unique at the region level
Type	Yes	String	Input type Valid values: <code>RTMP_PUSH</code> , <code>RTP_PUSH</code> ,

			UDP_PUSH , RTMP_PULL , HLS_PULL , MP4_PULL
SecurityGroupIds.N	No	Array of String	ID of the input security group to attach You can attach only one security group to an input.
InputSettings.N	No	Array of InputSettingInfo	Input settings. For the type RTMP_PUSH , RTMP_PULL , HLS_PULL , or MP4_PULL , 1 or 2 inputs of the corresponding type can be configured.

3. Output Parameters

Parameter Name	Type	Description
Id	String	Input ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=CreateStreamLiveInput
&Name=sdad
&Type=RTMP_PUSH
&SecurityGroupIds.0=123
&InputSettings.0.AppName=live
&InputSettings.0.StreamName=test
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Id": 111,
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
```

```
}
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.ExceededQuantityLimit	The quantity exceeds the limit.
InvalidParameter.InputSettings	Invalid <code>InputSettings</code> .
InvalidParameter.Name	Invalid <code>Name</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.SecurityGroups	Invalid <code>SecurityGroups</code> .

InvalidParameter.Type	Invalid <code>Type</code> .
-----------------------	-----------------------------

DeleteStreamLiveInput

最近更新时间：2024-01-24 11:22:51

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to delete a StreamLive input.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteStreamLiveInput.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Input ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DeleteStreamLiveInput
&Id=111
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.AlreadyAssociatedChannel	<code>Channel</code> already associated.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.

DescribeStreamLiveInput

最近更新时间：2024-01-24 11:22:50

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query a StreamLive input.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveInput.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Input ID

3. Output Parameters

Parameter Name	Type	Description
Info	InputInfo	Input information

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DescribeStreamLiveInput
&Id=1111
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Info": {
      "Id": "2",
      "Name": "a",
      "Region": "ap-hongkong",
      "Type": "RTMP_PUSH",
      "SecurityGroupIds": [
        "sss"
      ],
      "AttachedChannels": null,
      "InputSettings": [
        {
          "InputAddress": "rtmp://1.mdialive.ap-xxx.livepush.myqcloud.com",
          "AppName": "live",
          "StreamName": "streamA",
          "SourceUrl": ""
        },
        {
          "InputAddress": "rtmp://1.mdialive.ap-xxx.livepush.myqcloud.com",
          "AppName": "live",
          "StreamName": "streamB",
          "SourceUrl": ""
        }
      ],
      "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
    }
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.

DescribeStreamLiveInputs

最近更新时间：2024-01-24 11:22:50

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query StreamLive inputs in batches.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveInputs.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
Infos	Array of InputInfo	List of input information Note: this field may return <code>null</code> , indicating that no valid value was found.

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DescribeStreamLiveInputs
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Infos": [
      {
        "Region": "ap-hongkong",
        "Id": "2",
        "Name": "a",
        "Type": "RTMP_PUSH",
        "SecurityGroupIds": [
          "sss"
        ],
        "AttachedChannels": [
          "ccc"
        ],
        "InputSettings": [
          {
            "AppName": "live",
            "SourceUrl": "",
            "StreamName": "streamA",
            "InputAddress": "rtmp://1.mdialive.ap-xxx.livepush.myqcloud.com",
            "SourceType": ""
          },
          {
            "AppName": "live",
            "SourceUrl": "",
            "StreamName": "streamB",
            "InputAddress": "rtmp://1.mdialive.ap-xxx.livepush.myqcloud.com",
            "SourceType": ""
          }
        ]
      }
    ]
  }
}
```

```
},
{
  "Id": "2",
  "Name": "a",
  "Region": "ap-hongkong",
  "Type": "RTMP_PUSH",
  "SecurityGroupIds": [
    "sss"
  ],
  "AttachedChannels": [
    "ccc2"
  ],
  "InputSettings": [
    {
      "AppName": "live",
      "SourceUrl": "",
      "StreamName": "streamC",
      "InputAddress": "rtmp://1.mdialive.ap-xxx.livepush.myqcloud.com",
      "SourceType": ""
    },
    {
      "AppName": "live",
      "SourceUrl": "",
      "StreamName": "streamD",
      "InputAddress": "rtmp://1.mdialive.ap-xxx.livepush.myqcloud.com",
      "SourceType": ""
    }
  ]
},
"RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)

- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.

ModifyStreamLiveInput

最近更新时间：2024-01-24 11:22:50

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to modify a StreamLive input.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyStreamLiveInput.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Input ID
Name	No	String	Input name, which can contain 1-32 case-sensitive letters, digits, and underscores and must be unique at the region level
SecurityGroupIds.N	No	Array of String	List of the IDs of the security groups to attach
InputSettings.N	No	Array of InputSettingInfo	Input settings For the type <code>RTMP_PUSH</code> , <code>RTMP_PULL</code> ,

HLS_PULL , or MP4_PULL , 1 or 2 inputs of the corresponding type can be configured.
 This parameter can be left empty for RTP_PUSH and UDP_PUSH inputs.
 Note: If this parameter is not specified or empty, the original input settings will be used.

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=ModifyStreamLiveInput
&Id=111
&Name=sddd
&SecurityGroupIds.0=1111
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.InputSettings	Invalid <code>InputSettings</code> .
InvalidParameter.Name	Invalid <code>Name</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.SecurityGroups	Invalid <code>SecurityGroups</code> .
InvalidParameter.StateError	Incorrect status.

Input Security Group Management APIs

CreateStreamLiveInputSecurityGroup

最近更新时间：2024-01-24 11:22:49

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to create an input security group. Up to 5 security groups are allowed.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateStreamLiveInputSecurityGroup.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Name	Yes	String	Input security group name, which can contain case-sensitive letters, digits, and underscores and must be unique at the region level
Whitelist.N	Yes	Array of String	Allowlist entries. Quantity: [1, 10]

3. Output Parameters

Parameter Name	Type	Description
Id	String	Security group ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=CreateStreamLiveInputSecurityGroup
&Name=xxx
&Whitelist.0=1.1.1.1/1
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Id": "1111",
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)

- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.ExceededQuantityLimit	The quantity exceeds the limit.
InvalidParameter.Name	Invalid <code>Name</code> .
InvalidParameter.Whitelist	Invalid <code>Whitelist</code> .

DeleteStreamLiveInputSecurityGroup

最近更新时间：2024-01-24 11:22:49

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to delete an input security group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteStreamLiveInputSecurityGroup.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Input security group ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DeleteStreamLiveInputSecurityGroup
&Id=1111
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.AlreadyAssociatedInput	<code>Input</code> already associated.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.

DescribeStreamLiveInputSecurityGroup

最近更新时间：2024-01-24 11:22:49

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query an input security group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveInputSecurityGroup.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Input security group ID

3. Output Parameters

Parameter Name	Type	Description
Info	InputSecurityGroupInfo	Input security group information

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DescribeStreamLiveInputSecurityGroup
&Id=1111
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Info": {
      "Whitelist": [
        "0.0.0.0/0"
      ],
      "Id": "1111",
      "Name": "xx",
      "Region": "ap-hongkong",
      "OccupiedInputs": [
        "xxxx"
      ]
    },
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for Java](#)

- [Tencent Cloud SDK 3.0 for PHP](#)
- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.

DescribeStreamLiveInputSecurityGroups

最近更新时间：2024-01-24 11:22:48

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query input security groups in batches.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveInputSecurityGroups.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
Infos	Array of InputSecurityGroupInfo	List of input security group information

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DescribeStreamLiveInputSecurityGroups
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Infos": [
      {
        "Whitelist": [
          "0.0.0.0/0"
        ],
        "Id": "1111",
        "Name": "xx",
        "Region": "ap-hongkong",
        "OccupiedInputs": [
          "xx"
        ]
      }
    ],
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.

ModifyStreamLiveInputSecurityGroup

最近更新时间：2024-01-24 11:22:48

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to modify an input security group.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyStreamLiveInputSecurityGroup.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Input security group ID
Name	No	String	Input security group name, which can contain 1-32 case-sensitive letters, digits, and underscores and must be unique at the region level
Whitelist.N	No	Array of String	Allowlist entries (max: 10)

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=ModifyStreamLiveInputSecurityGroup
&Id= 1111
&Name=xxxx
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "RequestId": "3c140219-cfe9-470e-b241-907877d6fb03"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.Name	Invalid <code>Name</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.Whitelist	Invalid <code>Whitelist</code> .

Plan APIs

CreateStreamLivePlan

最近更新时间：2024-01-24 11:22:47

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to create an event in the plan.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateStreamLivePlan.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
ChannelId	Yes	String	ID of the channel for which you want to configure an event
Plan	Yes	PlanReq	Event configuration

3. Output Parameters

--	--	--

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```

POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateStreamLivePlan
<Common request parameters>

{
  "ChannelId": "AAAAA",
  "Plan": {
    "EventName": "EventName",
    "EventSettings": {
      "EventType": "FIXED_TIME",
      "InputAttachment": "BBBBB"
    },
    "TimingSettings": {
      "StartType": "FIXED_TIME",
      "Time": "2021-06-25T00:00:00Z"
    }
  }
}
    
```

Output Example

```

{
  "Response": {
    "RequestId": "AAAA"
  }
}
    
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for Go](#)
- [Tencent Cloud SDK 3.0 for Node.js](#)
- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter.NotFound	Not found.
InvalidParameter.Plan	Invalid <code>Plan</code> parameter

DeleteStreamLivePlan

最近更新时间：2024-01-24 11:22:47

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to delete a StreamLive event.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteStreamLivePlan.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
ChannelId	Yes	String	ID of the channel whose event is to be deleted
EventName	Yes	String	Name of the event to delete

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Sample request

Input Example

```
POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteStreamLivePlan
<Common request parameters>

{
  "ChannelId": "AAAAA",
  "EventName": "EventName",
}
```

Output Example

```
{
  "Response": {
    "RequestId": "AAAAA"
  }
}
```

5. Developer Resources

SDK

TencentCloud API 3.0 integrates SDKs that support various programming languages to make it easier for you to call APIs.

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter.NotFound	Not found.
InvalidParameter.Plan	Invalid <code>Plan</code> parameter

DescribeStreamLivePlans

最近更新时间：2024-01-24 11:22:47

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query the events in the plan in batches.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLivePlans.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
ChannelId	Yes	String	ID of the channel whose events you want to query

3. Output Parameters

Parameter Name	Type	Description
Infos	Array of	List of event information

	PlanResp	Note: this field may return <code>null</code> , indicating that no valid value was found.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeStreamLivePlans
<Common request parameters>

{
  "ChannelId": "AAAA"
}
```

Output Example

```
{
  "Response": {
    "Infos": {
      "EventName": "AAAA",
      "TimingSettings": {
        "StartType": "FIXED_TIME",
        "Time": "2021-06-25T00:00:00Z"
      },
      "EventSettings": {
        "EventType": "INPUT_SWITCH",
        "InputAttachment": "AAAAA"
      }
    },
    "RequestId": "AAAAA"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for .NET](#)
- [Tencent Cloud SDK 3.0 for C++](#)

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.
InvalidParameter.NotFound	Not found.

Watermark Management APIs

CreateStreamLiveWatermark

最近更新时间：2024-01-24 11:22:44

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to add a watermark.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: CreateStreamLiveWatermark.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Name	Yes	String	Watermark name
Type	Yes	String	Watermark type. Valid values: STATIC_IMAGE, TEXT.
ImageSettings	No	CreateImageSettings	Watermark image settings. This parameter is valid if <code>Type</code> is <code>STATIC_IMAGE</code> .

TextSettings	No	CreateTextSettings	Watermark text settings. This parameter is valid if <code>Type</code> is <code>TEXT</code> .
--------------	----	------------------------------------	--

3. Output Parameters

Parameter Name	Type	Description
Id	String	Watermark ID
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```

POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: CreateStreamLiveWatermark
<Common request parameters>

{
  "TextSettings": {
    "XPos": 10,
    "Text": "watermark",
    "YPos": 10,
    "FontSize": 10,
    "Location": "TOP_LEFT",
    "FontColor": "0x000000"
  },
  "Type": "STATIC_IMAGE",
  "Name": "test",
  "ImageSettings": {
    "XPos": 10,
    "YPos": 10,
    "Height": 10,
    "Width": 10,

```

```
"ImageContent": "d2F0ZXJtYXJr",
"Location": "TOP_LEFT",
"ImageType": "png"
}
}
```

Output Example

```
{
  "Response": {
    "Id": "123",
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

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

InternalError	Internal error.
InvalidParameter.ExceededQuantityLimit	The quantity exceeds the limit.
InvalidParameter.ImageSettings	Watermark image configuration error.
InvalidParameter.Name	Invalid <code>Name</code> .
InvalidParameter.TextSettings	Watermark text configuration error.
InvalidParameter.Type	Invalid <code>Type</code> .

DeleteStreamLiveWatermark

最近更新时间：2024-01-24 11:22:43

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to delete a watermark.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DeleteStreamLiveWatermark.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Watermark ID

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for

locating a problem.

4. Example

Example1 Sample request

Input Example

```
POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DeleteStreamLiveWatermark
<Common request parameters>

{
  "Id": "xxxx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter.AlreadyAssociatedChannel	<code>Channel</code> already associated.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.

DescribeStreamLiveWatermark

最近更新时间：2024-01-24 11:22:43

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query a watermark.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveWatermark.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Watermark ID

3. Output Parameters

Parameter Name	Type	Description
Info	DescribeWatermarkInfo	Watermark information

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Sample request

Input Example

```
POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeStreamLiveWatermark
<Common request parameters>

{
  "Id": "xx"
}
```

Output Example

```
{
  "Response": {
    "Info": {
      "TextSettings": {
        "XPos": 0,
        "Text": "xx",
        "YPos": 0,
        "FontSize": 0,
        "Location": "xx",
        "FontColor": "xx"
      },
      "Id": "xx",
      "Type": "xx",
      "ImageSettings": {
        "XPos": 0,
        "YPos": 0,
        "Height": 0,
        "Width": 0,
        "Location": "xx"
      },
      "Name": "xx"
    },
    "RequestId": "xx"
  }
}
```

```
}  
}
```

5. Developer Resources

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Command Line Interface

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.

DescribeStreamLiveWatermarks

最近更新时间：2024-01-24 11:22:43

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query multiple watermarks at a time.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveWatermarks.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
Infos	Array of DescribeWatermarkInfo	List of watermark information

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Sample request

Input Example

```
POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeStreamLiveWatermarks
<Common request parameters>

{}
```

Output Example

```
{
  "Response": {
    "Infos": [
      {
        "TextSettings": {
          "XPos": 0,
          "Text": "xx",
          "YPos": 0,
          "FontSize": 0,
          "Location": "xx",
          "FontColor": "xx"
        },
        "Id": "xx",
        "Type": "xx",
        "ImageSettings": {
          "XPos": 0,
          "YPos": 0,
          "Height": 0,
          "Width": 0,
          "Location": "xx"
        },
        "Name": "xx"
      }
    ],
    "RequestId": "xx"
  }
}
```



```
}  
}
```

5. Developer Resources

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.

ModifyStreamLiveWatermark

最近更新时间：2024-01-24 11:22:42

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to modify a watermark.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: ModifyStreamLiveWatermark.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	Watermark ID
Name	Yes	String	Watermark name
ImageSettings	No	CreateImageSettings	Watermark image settings. This parameter is valid if <code>Type</code> is <code>STATIC_IMAGE</code> .
TextSettings	No	CreateTextSettings	Watermark text settings. This parameter is valid if <code>Type</code> is <code>TEXT</code> .

3. Output Parameters

Parameter Name	Type	Description
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyStreamLiveWatermark
<Common request parameters>

{
  "TextSettings": {
    "XPos": 0,
    "Text": "xx",
    "YPos": 0,
    "FontSize": 0,
    "Location": "xx",
    "FontColor": "xx"
  },
  "ImageSettings": {
    "XPos": 0,
    "YPos": 0,
    "Height": 0,
    "Width": 0,
    "ImageContent": "xx",
    "Location": "xx",
    "ImageType": "xx"
  },
  "Name": "xx",
  "Id": "xx"
}
```

Output Example

```
{
  "Response": {
    "RequestId": "xx"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.ImageSettings	Watermark image configuration error.
InvalidParameter.Name	Invalid <code>Name</code> .

InvalidParameter.TextSettings	Watermark text configuration error.
InvalidParameter.Type	Invalid <code>Type</code> .

Statistics APIs

QueryInputStreamState

最近更新时间：2024-01-24 11:22:44

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query the stream status of a StreamLive input.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: QueryInputStreamState.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
Id	Yes	String	The StreamLive input ID.

3. Output Parameters

Parameter Name	Type	Description
----------------	------	-------------

Info	QueryDispatchInputInfo	The information of the StreamLive input queried.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: QueryInputStreamState
<Common request parameters>

{
  "Id": "123test"
}
```

Output Example

```
{
  "Response": {
    "Info": {
      "Protocol": "xx",
      "InputStreamInfoList": [
        {
          "InputAddress": "xx",
          "Status": 0,
          "StreamName": "xx",
          "AppName": "xx"
        }
      ],
      "InputName": "xx",
      "InputID": "xx"
    },
    "RequestId": "xx"
  }
}
```

5. Developer Resources

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter	Invalid parameter.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.

DescribeStreamLiveChannelAlerts

最近更新时间：2024-01-24 11:22:46

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query the alarm information of a StreamLive channel.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveChannelAlerts.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
ChannelId	Yes	String	Channel ID

3. Output Parameters

Parameter Name	Type	Description
Infos	ChannelAlertInfos	Alarm information of the channel's two pipelines

RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.
-----------	--------	--

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DescribeStreamLiveChannelAlerts
&ChannelId=1111
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Infos": {
      "Pipeline0": [
        {
          "SetTime": "2020-03-30T07:04:08Z",
          "ClearTime": "2020-03-30T08:04:08Z",
          "Type": "RTMP Stream Not Found",
          "Message": "Searching for RTMP Push stream [testStream], which does not exist at
this time"
        }
      ],
      "Pipeline1": [
        {
          "SetTime": "2020-03-30T07:04:08Z",
          "ClearTime": "2020-03-30T08:04:08Z",
          "Type": "Failed to Write to Output",
          "Message": "Failed to send file for URL [http://www.domain2.com/live/index.m3u8],
after [3] attempts, error [http client error [405]]"
        }
      ]
    },
    "RequestId": "11-222-222"
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter.NotFound	Not found.

DescribeStreamLiveChannelInputStatistics

最近更新时间：2024-01-24 11:22:46

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query input statistics.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveChannelInputStatistics.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
ChannelId	Yes	String	Channel ID
StartTime	No	String	Start time for query, which is 1 hour ago by default. You can query statistics in the last 7 days. UTC time, such as <code>2020-01-01T12:00:00Z</code>
EndTime	No	String	End time for query, which is 1 hour after <code>StartTime</code> by default UTC time, such as <code>2020-01-01T12:00:00Z</code>
Period	No	String	Data collection interval. Valid values: <code>5s</code> , <code>1min</code> (default), <code>5min</code> , <code>15min</code>

3. Output Parameters

Parameter Name	Type	Description
Infos	Array of ChannellInputStatistics	Channel input statistics
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DescribeStreamLiveChannelInputStatistics
&ChannelId=AEAE83719CE
&StartTime=2020-01-01T12:00:00Z
&EndTime=2020-01-01T14:00:00Z
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Infos": [
      {
        "InputId": "1111",
        "Statistics": {
          "Pipeline0": [
            {
              "Timestamp": 1585554600,
              "NetworkIn": 1500000,
              "Video": [
                {
                  "Fps": 30,
                  "Rate": 1500,
                  "Pid": 256
                }
              ]
            }
          ]
        }
      }
    ]
  }
}
```

```
],
  "Audio": [
    {
      "Fps": 30,
      "Rate": 1500,
      "Pid": 256
    }
  ]
},
  "Pipeline1": [
    {
      "Timestamp": 1585554600,
      "NetworkIn": 1500000,
      "Video": [
        {
          "Fps": 30,
          "Rate": 1500,
          "Pid": 256
        }
      ]
    }
  ],
  "Audio": [
    {
      "Fps": 30,
      "Rate": 1500,
      "Pid": 256
    }
  ]
}
],
  "RequestId": "11-222-222"
}
}
```

5. Developer Resources

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Command Line Interface

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6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.StartTime	Invalid <code>StartTime</code> .

DescribeStreamLiveChannelLogs

最近更新时间：2024-01-24 11:22:46

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query StreamLive channel logs, such as push event logs.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveChannelLogs.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
ChannelId	Yes	String	Channel ID
StartTime	No	String	Start time for query, which is 1 hour ago by default. You can query logs in the last 7 days. UTC time, such as <code>2020-01-01T12:00:00Z</code>
EndTime	No	String	End time for query, which is 1 hour after <code>StartTime</code> by default UTC time, such as <code>2020-01-01T12:00:00Z</code>

3. Output Parameters

Parameter Name	Type	Description
Infos	PipelineLogInfo	Pipeline push information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DescribeStreamLiveChannelLogs
&ChannelId=AEAE83719CE
&StartTime=2020-01-01T12:00:00Z
&EndTime=2020-01-01T14:00:00Z
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Infos": {
      "Pipeline0": [
        {
          "Type": "StreamStart",
          "Time": "2020-07-07T04:07:40Z",
          "Message": {
            "StreamInfo": {
              "ClientIp": "1.1.1.1",
              "Video": [
                {
                  "Pid": 256,
                  "Codec": "H264",
                  "Fps": 0,
                  "Rate": 0,
                  "Width": 0,
                  "Height": 0
                }
              ]
            }
          }
        }
      ]
    }
  }
}
```

```
],
"Audio": [
  {
    "Pid": 257,
    "Codec": "",
    "Fps": 0,
    "Rate": 0,
    "SampleRate": 0
  }
],
"Scte35": [
  {
    "Pid": 0
  }
]
},
"Pipeline1": []
},
"RequestId": "85c76051-d775-4a88-84fa-a9a51c1cfd97"
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter.EndTime	Invalid <code>EndTime</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.StartTime	Invalid <code>StartTime</code> .

DescribeStreamLiveChannelOutputStatistics

最近更新时间：2024-01-24 11:22:45

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query the output statistics of a StreamLive channel.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveChannelOutputStatistics.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
ChannelId	Yes	String	Channel ID
StartTime	No	String	Start time for query, which is 1 hour ago by default. You can query statistics in the last 7 days. UTC time, such as <code>2020-01-01T12:00:00Z</code>
EndTime	No	String	End time for query, which is 1 hour after <code>StartTime</code> by default UTC time, such as <code>2020-01-01T12:00:00Z</code>
Period	No	String	Data collection interval. Valid values: <code>5s</code> , <code>1min</code> (default), <code>5min</code> , <code>15min</code>

3. Output Parameters

Parameter Name	Type	Description
Infos	Array of ChannelOutputsStatistics	Channel output information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
https://mdl.tencentcloudapi.com/?Action=DescribeStreamLiveChannelOutputStatistics
&ChannelId=AEAE83719CE
&StartTime=2020-01-01T12:00:00Z
&EndTime=2020-01-01T14:00:00Z
&<Common request parameters>
```

Output Example

```
{
  "Response": {
    "Infos": [
      {
        "OutputGroupName": "TEST",
        "Statistics": {
          "Pipeline0": [
            {
              "Timestamp": 1585554600,
              "NetworkOut": 2000000
            }
          ],
          "Pipeline1": [
            {
              "Timestamp": 1585554600,
              "NetworkOut": 2000000
            }
          ]
        }
      }
    ]
  }
}
```

```
}
]
}
}
],
"RequestId": "11-222-222"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalServerError	Internal error.
InvalidParameter.EndTime	Invalid <code>EndTime</code> .
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.NotFound	Not found.

InvalidParameter.StartTime	Invalid StartTime .
----------------------------	---------------------

DescribeStreamLiveRegions

最近更新时间：2024-01-24 11:22:45

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query all StreamLive regions.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveRegions.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.

3. Output Parameters

Parameter Name	Type	Description
Info	StreamLiveRegionInfo	StreamLive region information
RequestId	String	The unique request ID, which is returned for each request. RequestId

is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```
POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeStreamLiveRegions
<Common request parameters>

{}
```

Output Example

```
{
  "Response": {
    "Info": {
      "Regions": [
        {
          "Name": "ap-mumbai"
        }
      ]
    },
    "RequestId": "aaaa"
  }
}
```

5. Developer Resources

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.

DescribeStreamLiveTranscodeDetail

最近更新时间：2024-01-24 11:22:45

1. API Description

Domain name for API request: mdl.tencentcloudapi.com.

This API is used to query the transcoding information of StreamLive streams.

A maximum of 20 requests can be initiated per second for this API.

We recommend you to use API Explorer

[Try it](#)

API Explorer provides a range of capabilities, including online call, signature authentication, SDK code generation, and API quick search. It enables you to view the request, response, and auto-generated examples.

2. Input Parameters

The following request parameter list only provides API request parameters and some common parameters. For the complete common parameter list, see [Common Request Parameters](#).

Parameter Name	Required	Type	Description
Action	Yes	String	Common Params . The value used for this API: DescribeStreamLiveTranscodeDetail.
Version	Yes	String	Common Params . The value used for this API: 2020-03-26.
Region	No	String	Common Params . This parameter is not required for this API.
StartDayTime	Yes	String	The query start time (UTC+8) in the format of yyyy-MM-dd. You can only query data in the last month (not including the current day).
EndDayTime	Yes	String	The query end time (UTC+8) in the format of yyyy-MM-dd. You can only query data in the last month (not including the current day).
ChannelId	No	String	The channel ID (optional).
PageNum	No	Integer	The number of pages. Default value: 1.

			The value cannot exceed 100.
PageSize	No	Integer	The number of records per page. Default value: 10. Value range: 1-1000.

3. Output Parameters

Parameter Name	Type	Description
Infos	Array of DescribeTranscodeDetailInfo	A list of the transcoding information.
PageNum	Integer	The number of the current page.
PageSize	Integer	The number of records per page.
TotalNum	Integer	The total number of records.
TotalPage	Integer	The total number of pages.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Sample request

Input Example

```

POST / HTTP/1.1
Host: mdl.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeStreamLiveTranscodeDetail
<Common request parameters>

{
  "EndDayTime": "2022-01-01",
  "ChannelId": "",
  "PageNum": 1,
  "PageSize": 100,
  "StartDayTime": "2022-01-01"
}
    
```

Output Example

```
{
  "Response": {
    "TotalPage": 10,
    "PageNum": 1,
    "PageSize": 10,
    "RequestId": "xx",
    "Infos": [
      {
        "Type": "merge_stream",
        "Bitrate": 1000,
        "PushDomain": "",
        "ChannelId": "12AB3E5F",
        "ModuleCodec": "liveprocessor_H264",
        "StartTime": "2022-01-01 01:00:00",
        "Duration": 10,
        "EndTime": "2022-01-01 01:00:10",
        "Resolution": "480P"
      }
    ],
    "TotalNum": 100
  }
}
```

5. Developer Resources

SDK

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Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

The following only lists the error codes related to the API business logic. For other error codes, see [Common Error Codes](#).

Error Code	Description
InternalError	Internal error.
InvalidParameter.ChannelId	Channel ID error.
InvalidParameter.EndTime	Invalid <code>EndTime</code> .
InvalidParameter.Id	Invalid <code>Id</code> .
InvalidParameter.PageNum	Page number error.
InvalidParameter.StartTime	Invalid <code>StartTime</code> .

Data Types

最近更新时间：2024-01-24 11:22:54

AVTemplate

Audio/Video transcoding template

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Name	String	Yes	Name of an audio/video transcoding template, which can contain 1-20 case-sensitive letters and digits
NeedVideo	Integer	No	Whether video is needed. <code>0</code> : not needed; <code>1</code> : needed
Vcodec	String	No	Video codec. Valid values: <code>H264</code> , <code>H265</code> . If this parameter is left empty, the original video codec will be used.
Width	Integer	No	Video width. Value range: (0, 3000]. The value must be an integer multiple of 4. If this parameter is left empty, the original video width will be used.
Height	Integer	No	Video height. Value range: (0, 3000]. The value must be an integer multiple of 4. If this parameter is left empty, the original video height will be used.
Fps	Integer	No	Video frame rate. Value range: [1, 240]. If this parameter is left empty, the original frame rate will be used.
TopSpeed	String	No	Whether to enable top speed codec transcoding. Valid values: <code>CLOSE</code> (disable), <code>OPEN</code> (enable). Default value: <code>CLOSE</code>
BitrateCompressionRatio	Integer	No	Compression ratio for top speed codec transcoding. Value range: [0, 50]. The lower the compression ratio, the higher the image quality.
NeedAudio	Integer	No	Whether audio is needed. <code>0</code> : not needed; <code>1</code> : needed
Acodec	String	No	Audio codec. Valid value: <code>AAC</code> (default)

AudioBitrate	Integer	No	<p>Audio bitrate. If this parameter is left empty, the original bitrate will be used.</p> <p>Valid values: 6000 , 7000 , 8000 , 10000 , 12000 , 14000 , 16000 , 20000 , 24000 , 28000 , 32000 , 40000 , 48000 , 56000 , 64000 , 80000 , 96000 , 112000 , 128000 , 160000 , 192000 , 224000 , 256000 , 288000 , 320000 , 384000 , 448000 , 512000 , 576000 , 640000 , 768000 , 896000 , 1024000</p>
VideoBitrate	Integer	No	<p>Video bitrate. Value range: [50000, 40000000]. The value must be an integer multiple of 1000. If this parameter is left empty, the original bitrate will be used.</p>
RateControlMode	String	No	<p>Bitrate control mode. Valid values: CBR , ABR (default)</p>
WatermarkId	String	No	<p>Watermark ID</p>
SmartSubtitles	Integer	No	<p>Whether to convert audio to text. 0 (default): No; 1 : Yes.</p>
SubtitleConfiguration	String	No	<p>The subtitle settings. Currently, the following subtitles are supported:</p> <ul style="list-style-type: none"> eng2eng : English speech to English text. eng2chs : English speech to Chinese text. eng2chseng : English speech to English and Chinese text. chs2chs : Chinese speech to Chinese text. chs2eng : Chinese speech to English text. chs2chseng : Chinese speech to Chinese and English text.

AttachedInput

Channel-associated input

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Id	String	Yes	Input ID

AudioSelectors	Array of AudioSelectorInfo	No	Audio selector for the input. There can be 0 to 20 audio selectors. Note: this field may return <code>null</code> , indicating that no valid value was found.
PullBehavior	String	No	Pull mode. If the input type is <code>HLS_PULL</code> or <code>MP4_PULL</code> , you can set this parameter to <code>LOOP</code> or <code>ONCE</code> . <code>LOOP</code> is the default value. Note: this field may return <code>null</code> , indicating that no valid value was found.
FailOverSettings	FailOverSettings	No	Input failover configuration Note: this field may return <code>null</code> , indicating that no valid value was found.

AudioPidSelectionInfo

Audio `Pid` selection.

Used by actions: `CreateStreamLiveChannel`, `DescribeStreamLiveChannel`, `DescribeStreamLiveChannels`, `ModifyStreamLiveChannel`.

Name	Type	Required	Description
Pid	Integer	No	Audio <code>Pid</code> . Default value: 0.

AudioPipelineInputStatistics

Pipeline input audio statistics.

Used by actions: `DescribeStreamLiveChannelInputStatistics`.

Name	Type	Description
Fps	Integer	Audio FPS.
Rate	Integer	Audio bitrate in bps.
Pid	Integer	Audio <code>Pid</code> , which is available only if the input is <code>rtp/udp</code> .

AudioSelectorInfo

Audio selector.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Name	String	Yes	Audio name, which can contain 1-32 letters, digits, and underscores.
AudioPidSelection	AudioPidSelectionInfo	No	Audio <code>pid</code> selection.

AudioTemplateInfo

Audio transcoding template.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
AudioSelectorName	String	Yes	Only <code>AttachedInputs.AudioSelectors.Name</code> can be selected. This parameter is required for RTP_PUSH and UDP_PUSH.
Name	String	Yes	Audio transcoding template name, which can contain 1-20 letters and digits.
Acodec	String	No	Audio codec. Valid value: AAC. Default value: AAC.
AudioBitrate	Integer	No	Audio bitrate. If this parameter is left empty, the original value will be used. Valid values: 6000, 7000, 8000, 10000, 12000, 14000, 16000, 20000, 24000, 28000, 32000, 40000, 48000, 56000, 64000, 80000, 96000, 112000, 128000, 160000, 192000, 224000, 256000, 288000, 320000, 384000, 448000, 512000, 576000, 640000, 768000, 896000, 1024000
LanguageCode	String	No	Audio language code, whose length is always 3 characters.

ChannelAlertInfos

Channel alarm information.

Used by actions: DescribeStreamLiveChannelAlerts.

Name	Type	Description
Pipeline0	Array of ChannelPipelineAlerts	Alarm details of pipeline 0 under this channel.
Pipeline1	Array of ChannelPipelineAlerts	Alarm details of pipeline 1 under this channel.

ChannelInputStatistics

Channel output statistics.

Used by actions: DescribeStreamLiveChannelInputStatistics.

Name	Type	Description
InputId	String	Input ID.
Statistics	InputStatistics	Input statistics.

ChannelOutputsStatistics

Channel output information.

Used by actions: DescribeStreamLiveChannelOutputStatistics.

Name	Type	Description
OutputGroupName	String	Output group name.
Statistics	OutputsStatistics	Output group statistics.

ChannelPipelineAlerts

Channel alarm details.

Used by actions: DescribeStreamLiveChannelAlerts.

Name	Type	Description
SetTime	String	Alarm start time in UTC time.
ClearTime	String	Alarm end time in UTC time. This time is available only after the alarm ends.
Type	String	Alarm type.
Message	String	Alarm details.

CreateImageSettings

Watermark image settings

Used by actions: CreateStreamLiveWatermark, ModifyStreamLiveWatermark.

Name	Type	Required	Description
ImageType	String	No	Image file format. Valid values: png, jpg.
ImageContent	String	No	Base64 encoded image content
Location	String	No	Origin. Valid values: TOP_LEFT, BOTTOM_LEFT, TOP_RIGHT, BOTTOM_RIGHT.
XPos	Integer	No	The watermark's horizontal distance from the origin as a percentage of the video width. Value range: 0-100. Default: 10.
YPos	Integer	No	The watermark's vertical distance from the origin as a percentage of the video height. Value range: 0-100. Default: 10.
Width	Integer	No	The watermark image's width as a percentage of the video width. Value range: 0-100. Default: 10. 0 means to scale the width proportionally to the height. You cannot set both <code>Width</code> and <code>Height</code> to 0.
Height	Integer	No	The watermark image's height as a percentage of the video height. Value range: 0-100. Default: 10. 0 means to scale the height proportionally to the width. You cannot set both <code>Width</code> and <code>Height</code> to 0.

CreateTextSettings

Watermark text settings

Used by actions: CreateStreamLiveWatermark, ModifyStreamLiveWatermark.

Name	Type	Required	Description
Text	String	Yes	Text
Location	String	No	Origin. Valid values: TOP_LEFT, BOTTOM_LEFT, TOP_RIGHT, BOTTOM_RIGHT.
XPos	Integer	No	The watermark's horizontal distance from the origin as a percentage of the video width. Value range: 0-100. Default: 10.
YPos	Integer	No	The watermark's vertical distance from the origin as a percentage of the video height. Value range: 0-100. Default: 10.
FontSize	Integer	No	Font size. Value range: 25-50.
FontColor	String	No	Font color, which is an RGB color value. Default value: 0x000000.

DashRemuxSettingsInfo

DASH configuration information.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
SegmentDuration	Integer	No	Segment duration in ms. Value range: [1000,30000]. Default value: 4000. The value can only be a multiple of 1,000.
SegmentNumber	Integer	No	Number of segments. Value range: [1,30]. Default value: 5.
PeriodTriggers	String	No	Whether to enable multi-period. Valid values: CLOSE/OPEN. Default value: CLOSE.
H265PackageType	String	No	The HLS package type when the H.265 codec is used. Valid values: <code>hvc1</code> , <code>hev1</code> (default).

DeliveryRestrictionsInfo

Distribution configuration information.

Used by actions: CreateStreamLivePlan, DescribeStreamLivePlans.

Name	Type	Required	Description
WebDeliveryAllowed	String	No	Corresponds to SCTE-35 web_delivery_allowed_flag parameter.
NoRegionalBlackout	String	No	Corresponds to SCTE-35 no_regional_blackout_flag parameter.
ArchiveAllowed	String	No	Corresponds to SCTE-35 archive_allowed_flag.
DeviceRestrictions	String	No	Corresponds to SCTE-35 device_restrictions parameter.

DescribeImageSettings

Watermark image settings

Used by actions: DescribeStreamLiveWatermark, DescribeStreamLiveWatermarks.

Name	Type	Description
Location	String	Origin
XPos	Integer	The watermark image's horizontal distance from the origin as a percentage of the video width
YPos	Integer	The watermark image's vertical distance from the origin as a percentage of the video height
Width	Integer	The watermark image's width as a percentage of the video width
Height	Integer	The watermark image's height as a percentage of the video height

DescribeTextSettings

Watermark text settings

Used by actions: DescribeStreamLiveWatermark, DescribeStreamLiveWatermarks.

Name	Type	Description

Text	String	Text
Location	String	Origin
XPos	Integer	The watermark image's horizontal distance from the origin as a percentage of the video width
YPos	Integer	The watermark image's vertical distance from the origin as a percentage of the video height
FontSize	Integer	Font size
FontColor	String	Font color

DescribeTranscodeDetailInfo

Transcoding details.

Used by actions: DescribeStreamLiveTranscodeDetail.

Name	Type	Description
ChannelId	String	The channel ID.
StartTime	String	The start time (UTC+8) of transcoding in the format of yyyy-MM-dd HH:mm:ss.
EndTime	String	The end time (UTC+8) of transcoding in the format of yyyy-MM-dd HH:mm:ss.
Duration	Integer	The duration (s) of transcoding.
ModuleCodec	String	The encoding method. Examples: <code>liveprocessor_H264</code> : Live transcoding-H264 <code>liveprocessor_H265</code> : Live transcoding-H265 <code>topspeed_H264</code> : Top speed codec-H264 <code>topspeed_H265</code> : Top speed codec-H265
Bitrate	Integer	The target bitrate (Kbps).
Type	String	The transcoding type.
PushDomain	String	The push domain name.
Resolution	String	The target resolution.

DescribeWatermarkInfo

Watermark information

Used by actions: DescribeStreamLiveWatermark, DescribeStreamLiveWatermarks.

Name	Type	Description
Id	String	Watermark ID
Name	String	Watermark name
Type	String	Watermark type. Valid values: STATIC_IMAGE, TEXT.
ImageSettings	DescribeImageSettings	Watermark image settings. This parameter is valid if <code>Type</code> is <code>STATIC_IMAGE</code> . Note: This field may return <code>null</code> , indicating that no valid value was found.
TextSettings	DescribeTextSettings	Watermark text settings. This parameter is valid if <code>Type</code> is <code>TEXT</code> . Note: This field may return <code>null</code> , indicating that no valid value was found.
UpdateTime	String	Last modified time (UTC+0) of the watermark, in the format of <code>2020-01-01T12:00:00Z</code> . Note: This field may return <code>null</code> , indicating that no valid value was found.
AttachedChannels	Array of String	List of channel IDs the watermark is bound to Note: This field may return <code>null</code> , indicating that no valid value was found.

DestinationInfo

Relay destination address.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
OutputUrl	String	Yes	Relay destination address. Length limit: [1,512].

AuthKey	String	No	Authentication key. Length limit: [1,128]. Note: this field may return null, indicating that no valid values can be obtained.
Username	String	No	Authentication username. Length limit: [1,128]. Note: this field may return null, indicating that no valid values can be obtained.
Password	String	No	Authentication password. Length limit: [1,128]. Note: this field may return null, indicating that no valid values can be obtained.

DrmKey

Custom DRM key.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Key	String	Yes	DRM key, which is a 32-bit hexadecimal string. Note: uppercase letters in the string will be automatically converted to lowercase ones.
Track	String	No	Required for Widevine encryption. Valid values: SD, HD, UHD1, UHD2, AUDIO, ALL. ALL refers to all tracks. If this parameter is set to ALL, no other tracks can be added. Note: this field may return null, indicating that no valid values can be obtained.
KeyId	String	No	Required for Widevine encryption. It is a 32-bit hexadecimal string. Note: uppercase letters in the string will be automatically converted to lowercase ones. Note: this field may return null, indicating that no valid values can be obtained.
Iv	String	No	Required when FairPlay uses the AES encryption method. It is a 32-bit hexadecimal string. For more information about this parameter, please see: https://tools.ietf.org/html/rfc3826 Note: uppercase letters in the string will be automatically converted to lowercase ones. Note: this field may return null, indicating that no valid values can be obtained.
KeyUri	String	No	The URI of the license server when AES-128 is used. This parameter may be

empty.
 Note: This field may return `null`, indicating that no valid values can be obtained.

DrmSettingsInfo

DRM configuration information, which takes effect only for HLS and DASH.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
State	String	No	Whether to enable DRM encryption. Valid values: <code>CLOSE</code> (disable), <code>OPEN</code> (enable). Default value: <code>CLOSE</code> DRM encryption is supported only for HLS, DASH, HLS_ARCHIVE, DASH_ARCHIVE, HLS_MEDIAPACKAGE, and DASH_MEDIAPACKAGE outputs.
Scheme	String	No	Valid values: <code>CustomDRMKeys</code> (default value), <code>SDMC DRM</code> <code>CustomDRMKeys</code> means encryption keys customized by users. <code>SDMC DRM</code> means the DRM key management system of SDMC.
ContentId	String	No	If <code>Scheme</code> is set to <code>CustomDRMKeys</code> , this parameter is required. If <code>Scheme</code> is set to <code>SDMC DRM</code> , this parameter is optional. It supports digits, letters, hyphens, and underscores and must contain 1 to 36 characters. If it is not specified, the value of <code>ChannelId</code> will be used.
Keys	Array of DrmKey	No	The key customized by the content user, which is required when <code>Scheme</code> is set to <code>CustomDRMKeys</code> . Note: this field may return null, indicating that no valid values can be obtained.
SDMCSettings	SDMCSettingsInfo	No	SDMC key configuration. This parameter is used when <code>Scheme</code> is set to <code>SDMC DRM</code> . Note: This field may return <code>null</code> , indicating that no valid value was found.

DrmType	String	No	The DRM type. Valid values: FAIRPLAY , WIDEVINE , AES128 , PLAYREADY . For HLS, this can be FAIRPLAY or AES128 or PLAYREADY . For DASH, valid values: WIDEVINE or PLAYREADY .
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EventNotifySetting

The callback settings.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
PushEventSettings	PushEventSetting	No	The callback configuration for push events.

EventSettingsDestinationReq

Destination address information in event settings

Used by actions: CreateStreamLivePlan.

Name	Type	Required	Description
Url	String	Yes	URL of the COS bucket to save recording files

EventSettingsDestinationResp

Destination address information in event settings

Used by actions: DescribeStreamLivePlans.

Name	Type	Description
Url	String	URL of the COS bucket where recording files are saved

EventSettingsReq

Configuration information of an event in the plan

Used by actions: CreateStreamLivePlan.

Name	Type	Required	Description
EventType	String	Yes	Valid values: <code>INPUT_SWITCH</code> , <code>TIMED_RECORD</code> , <code>SCTE35_TIME_SIGNAL</code> , <code>SCTE35_SPLICE_INSERT</code> , <code>SCTE35_RETURN_TO_NETWORK</code> . If it is not specified, <code>INPUT_SWITCH</code> will be used.
InputAttachment	String	No	ID of the input to attach, which is required if <code>EventType</code> is <code>INPUT_SWITCH</code> .
OutputGroupName	String	No	Name of the output group to attach. This parameter is required if <code>EventType</code> is <code>TIMED_RECORD</code> .
ManifestName	String	No	Name of the manifest file for recording, which must end with <code>.m3u8</code> for HLS and <code>.mpd</code> for DASH. This parameter is required if <code>EventType</code> is <code>TIMED_RECORD</code> .
Destinations	Array of EventSettingsDestinationReq	No	URL of the COS bucket to save recording files. This parameter is required if <code>EventType</code> is <code>TIMED_RECORD</code> . It may contain one or two URLs. The first URL corresponds to pipeline 0 and the second to pipeline 1.
SCTE35SegmentationDescriptor	Array of SegmentationDescriptorInfo	No	SCTE-35 configuration information.
SpliceEventID	Integer	No	A 32-bit unique segmentation event identifier. Only one occurrence of a given <code>segmentation_event_id</code> shall be active at any one time.

SpliceDuration	Integer	No	The duration of the segment in ticks.It used to give the splicer indication of when the break w over and when the network In l will occur. If not specified,the splice_insert will continue whe a return_to_network to end the splice_insert at the appropriate
TimedMetadataSetting	TimedMetadataInfo	No	Meta information plan configur

EventSettingsResp

Configuration information of an event in the plan

Used by actions: DescribeStreamLivePlans.

Name	Type	Required	Description
EventType	String	Yes	Valid values: INPUT_SWIT TIMED_RECORD, SCTE35_TIME_SIGNAL, SCTE35_SPLICE_INSERT SCTE35_RETURN_TO_N
InputAttachment	String	No	ID of the input attached, w empty if <code>EventType</code> is <code>INPUT_SWITCH</code>
OutputGroupName	String	No	Name of the output group ; This parameter is not emp <code>EventType</code> is <code>TIMED_RECORD</code> .
ManifestName	String	No	Name of the manifest file fc recording, which ends with for HLS and <code>.mpd</code> for D parameter is not empty if <code>EventType</code> is <code>TIMED_RECORD</code> .
Destinations	Array of EventSettingsDestinationResp	No	URL of the COS bucket w recording files are saved. 1 parameter is not empty if

			EventType is TIMED_RECORD . It may or 2 URLs. The first URL c to pipeline 0 and the secur 1.
SCTE35SegmentationDescriptor	Array of SegmentationDescriptorRespInfo	No	SCTE-35 configuration info
SpliceEventID	Integer	No	A 32-bit unique segmentat identifier.Only one occurre given segmentation_event shall be active at any one t
SpliceDuration	String	No	The duration of the segme ticks.It used to give the spl indication of when the brea over and when the network will occur. If not specified, splice_insert will continue a return_to_network to enc splice_insert at the approp
TimedMetadataSetting	TimedMetadataInfo	No	Meta information plan conf

FailOverSettings

Input failover settings

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
SecondaryInputId	String	No	ID of the backup input Note: this field may return null , indicating that no valid value was found.
LossThreshold	Integer	No	The wait time (ms) for triggering failover after the primary input becomes unavailable. Value range: [1000, 86400000]. Default value: 3000
RecoverBehavior	String	No	Failover policy. Valid values: CURRENT_PREFERRED (default), PRIMARY_PREFERRED

HlsRemuxSettingsInfo

HLS protocol configuration.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
SegmentDuration	Integer	No	Segment duration in ms. Value range: [1000,30000]. Default value: 4000. The value can only be a multiple of 1,000.
SegmentNumber	Integer	No	Number of segments. Value range: [1,30]. Default value: 5.
PdtInsertion	String	No	Whether to enable PDT insertion. Valid values: CLOSE/OPEN. Default value: CLOSE.
PdtDuration	Integer	No	PDT duration in seconds. Value range: (0,3000]. Default value: 600.
Scheme	String	No	Audio/Video packaging scheme. Valid values: SEPARATE , MERGE . Default value is: SEPARATE.
SegmentType	String	No	The segment type. Valid values: ts (default), fmp4 . Currently, fMP4 segments do not support DRM or time shifting.
H265PackageType	String	No	The HLS package type when the H.265 codec is used. Valid values: hvc1 , hev1 (default).
LowLatency	Integer	No	Whether to enable low latency 0:CLOSE, 1:OPEN, default value: 0.
PartialSegmentDuration	Integer	No	Low latency slice size, unit ms. Value range: integer [200-HlsRemuxSettings.SegmentDuration] Default value: 500ms.
PartialSegmentPlaySite	Integer	No	Low latency slice playback position, unit ms. Value range: integer [3HlsRemuxSettings.PartiSegmentDuration - 3HlsRemuxSettings.SegmentDuration], Default value: 3*HlsRemuxSettings.PartiSegmentDuration.
StreamOrder	Integer	No	Hls main m3u8 file sorting rules by bitrate, optional values: 1: video bitrate ascending order; 2: video bitrate descending order. Default value: 1.

VideoResolution	Integer	No	Whether the Hls main m3u8 file contains resolution information, optional values: 1: INCLUDE includes video resolution; 2: EXCLUDE does not include video resolution. Default value: 1.
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InputInfo

Input information.

Used by actions: DescribeStreamLiveInput, DescribeStreamLiveInputs.

Name	Type	Description
Region	String	Input region.
Id	String	Input ID.
Name	String	Input name.
Type	String	Input type.
SecurityGroupIds	Array of String	Array of security groups associated with input.
AttachedChannels	Array of String	Array of channels associated with input. Note: this field may return null, indicating that no valid values can be obtained.
InputSettings	Array of InputSettingInfo	Input configuration array.

InputLossBehaviorInfo

Complement the last video frame related settings.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
RepeatLastFrameMs	Integer	No	The time to fill in the last video frame, unit ms, range 0-1000000, 1000000 means always inserting, default 0 means filling in black screen frame.

InputLossImageType	String	No	Fill frame type, COLOR means solid color filling, IMAGE means picture filling, the default is COLOR.
ColorRGB	String	No	When the type is COLOR, the corresponding rgb value
ImageUrl	String	No	When the type is IMAGE, the corresponding image url value

InputSecurityGroupInfo

Input security group information.

Used by actions: DescribeStreamLiveInputSecurityGroup, DescribeStreamLiveInputSecurityGroups.

Name	Type	Description
Id	String	Input security group ID.
Name	String	Input security group name.
Whitelist	Array of String	List of allowlist entries.
OccupiedInputs	Array of String	List of bound input streams. Note: this field may return null, indicating that no valid values can be obtained.
Region	String	Input security group address.

InputSettingInfo

The input settings.

The format of an RTMP_PUSH address is `${InputAddress}/${AppName}/${StreamName}`.

The format of an SRT_PUSH address is `${InputAddress}?streamid=${StreamName},h=${InputDomain}`.

Used by actions: CreateStreamLiveInput, DescribeStreamLiveInput, DescribeStreamLiveInputs, ModifyStreamLiveInput.

Name	Type	Required	Description
AppName	String	No	Application name, which is valid if <code>Type</code> is <code>RTMP_PUSH</code> and can contain 1-32 letters and digits Note: This field may return <code>null</code> , indicating that no valid value was found.

StreamName	String	No	Stream name, which is valid if <code>Type</code> is <code>RTMP_PUSH</code> and can contain 1-32 letters and digits Note: This field may return <code>null</code> , indicating that no valid value was found.
SourceUrl	String	No	Source URL, which is valid if <code>Type</code> is <code>RTMP_PULL</code> , <code>HLS_PULL</code> , or <code>MP4_PULL</code> and can contain 1-512 characters Note: This field may return <code>null</code> , indicating that no valid value was found.
InputAddress	String	No	RTP/UDP input address, which does not need to be entered for the input parameter. Note: this field may return <code>null</code> , indicating that no valid values can be obtained.
SourceType	String	No	Source type for stream pulling and relaying. To pull content from private-read COS buckets under the current account, set this parameter to <code>TencentCOS</code> ; otherwise, leave it empty. Note: this field may return <code>null</code> , indicating that no valid value was found.
DelayTime	Integer	No	Delayed time (ms) for playback, which is valid if <code>Type</code> is <code>RTMP_PUSH</code> Value range: 0 (default) or 10000-600000 The value must be a multiple of 1,000. Note: This field may return <code>null</code> , indicating that no valid value was found.
InputDomain	String	No	The domain of an <code>SRT_PUSH</code> address. If this is a request parameter, you don't need to specify it. Note: This field may return <code>null</code> , indicating that no valid value was found.
UserName	String	No	The username, which is used for authentication. Note: This field may return <code>null</code> , indicating that no valid value was found.
Password	String	No	The password, which is used for authentication. Note: This field may return <code>null</code> , indicating that no valid value was found.

InputStatistics

Input statistics.

Used by actions: DescribeStreamLiveChannelInputStatistics.

Name	Type	Description
Pipeline0	Array of PipelineInputStatistics	Input statistics of pipeline 0.
Pipeline1	Array of PipelineInputStatistics	Input statistics of pipeline 1.

InputStreamInfo

The input stream information.

Used by actions: QueryInputStreamState.

Name	Type	Description
InputAddress	String	The input stream address.
AppName	String	The input stream path.
StreamName	String	The input stream name.
Status	Integer	The input stream status. <code>1</code> indicates the stream is active.

LogInfo

Log information.

Used by actions: DescribeStreamLiveChannelLogs.

Name	Type	Description
Type	String	Log type. It contains the value of <code>StreamStart</code> which refers to the push information.
Time	String	Time when the log is printed.
Message	LogMessageInfo	Log details.

LogMessageInfo

Log details.

Used by actions: DescribeStreamLiveChannelLogs.

Name	Type	Description
StreamInfo	StreamInfo	Push information. Note: this field may return null, indicating that no valid values can be obtained.

OutputInfo

Output information.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Name	String	Yes	Output name.
AudioTemplateNames	Array of String	No	Audio transcoding template name array. Quantity limit: [0,1] for RTMP; [0,20] for others. Note: this field may return null, indicating that no valid values can be obtained.
VideoTemplateNames	Array of String	No	Video transcoding template name array. Quantity limit: [0,1]. Note: this field may return null, indicating that no valid values can be obtained.
Scte35Settings	Scte35SettingsInfo	No	SCTE-35 information configuration.
AVTemplateNames	Array of String	No	Audio/Video transcoding template name. If <code>HlsRemuxSettings.Scheme</code> is <code>MERGE</code> , there is 1 audio/video transcoding template. Otherwise, this parameter is empty. Note: this field may return <code>null</code> , indicating that no valid value was found.

TimedMetadataSettings	TimedMetadataSettingInfo	No	Meta information controls configuration.
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OutputsStatistics

Channel output statistics.

Used by actions: DescribeStreamLiveChannelOutputStatistics.

Name	Type	Description
Pipeline0	Array of PipelineOutputStatistics	Output information of pipeline 0.
Pipeline1	Array of PipelineOutputStatistics	Output information of pipeline 1.

PipelineInputSettingsInfo

Pipeline failover information.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
FaultBehavior	String	No	Pipeline failover configuration, the valid value is: 1.PIPELINE_FAILOVER (channels are mutually failover); 2.PIPELINE_FILLING (channels fill in themselves). Default value: PIPELINE_FILLING. The specific content is specified by FaultBehavior.

PipelineInputStatistics

Pipeline input statistics.

Used by actions: DescribeStreamLiveChannelInputStatistics.

Name	Type	Description
Timestamp	Integer	Data timestamp in seconds.

NetworkIn	Integer	Input bandwidth in bps.
Video	Array of VideoPipelineInputStatistics	Video information array. For <code>rtp/udp</code> input, the quantity is the number of <code>Pid</code> of the input video. For other inputs, the quantity is 1.
Audio	Array of AudioPipelineInputStatistics	Audio information array. For <code>rtp/udp</code> input, the quantity is the number of <code>Pid</code> of the input audio. For other inputs, the quantity is 1.

PipelineLogInfo

Pipeline log information.

Used by actions: DescribeStreamLiveChannelLogs.

Name	Type	Description
Pipeline0	Array of LogInfo	Log information of pipeline 0. Note: this field may return null, indicating that no valid values can be obtained.
Pipeline1	Array of LogInfo	Log information of pipeline 1. Note: this field may return null, indicating that no valid values can be obtained.

PipelineOutputStatistics

Channel output statistics.

Used by actions: DescribeStreamLiveChannelOutputStatistics.

Name	Type	Description
Timestamp	Integer	Timestamp. In seconds, indicating data time.
NetworkOut	Integer	Output bandwidth in bps.

PlanReq

Event configuration information

Used by actions: CreateStreamLivePlan.

Name	Type	Required	Description
EventName	String	Yes	Event name
TimingSettings	TimingSettingsReq	Yes	Event trigger time settings
EventSettings	EventSettingsReq	Yes	Event configuration

PlanResp

Event configuration information

Used by actions: DescribeStreamLivePlans.

Name	Type	Required	Description
EventName	String	Yes	Event name
TimingSettings	TimingSettingsResp	Yes	Event trigger time settings
EventSettings	EventSettingsResp	Yes	Event configuration

PlanSettings

Event settings

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
TimedRecordSettings	TimedRecordSettings	No	Timed recording settings Note: This field may return <code>null</code> , indicating that no valid value was found.

PushEventSetting

The callback configuration for push events.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
NotifyUrl	String	Yes	The callback URL (required).
NotifyKey	String	No	The callback key (optional).

QueryDispatchInputInfo

The stream status of the queried input.

Used by actions: QueryInputStreamState.

Name	Type	Description
InputID	String	The input ID.
InputName	String	The input name.
Protocol	String	The input protocol.
InputStreamInfoList	Array of InputStreamInfo	The stream status of the input.

RegionInfo

Region information

Used by actions: DescribeStreamLiveRegions.

Name	Type	Description
Name	String	Region name

SDMCSettingsInfo

SDMC DRM configuration information. This parameter is valid only when `Scheme` is set to `SDMCDRM`.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Uid	String	Yes	User ID in the SDMC DRM system
Tracks	Integer	Yes	Tracks of the SDMC DRM system. This parameter is valid for DASH output groups. 1 : audio 2 : SD 4 : HD 8 : UHD1 16 : UHD2 Default value: 31 (audio + SD + HD + UHD1 + UHD2)
SecretId	String	Yes	Key ID in the SDMC DRM system; required
SecretKey	String	Yes	Key in the SDMC DRM system; required
Url	String	Yes	Key request URL of the SDMC DRM system, which is <code>https://uat.multidrm.tv/cpix/2.2/getcontentkey</code> by default
TokenName	String	Yes	Token name in an SDMC key request URL, which is <code>token</code> by default

Scte35SettingsInfo

SCTE-35 configuration information.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Behavior	String	No	Whether to pass through SCTE-35 information. Valid values: NO_PASSTHROUGH/PASSTHROUGH. Default value: NO_PASSTHROUGH.

SegmentationDescriptorInfo

SCTE-35 configuration information.

Used by actions: CreateStreamLivePlan.

Name	Type	Required	Description
EventID	Integer	No	A 32-bit unique segmentation event identifier. Only one occurrence of a given segmentation_event_id value shall be active at any one time.
EventCancelIndicator	Integer	No	Indicates that a previously sent segmentation event, identified by segmentation_event_id, has been cancelled.
DeliveryRestrictions	DeliveryRestrictionsInfo	No	Distribution configuration.
Duration	Integer	No	The duration of the segment in 90kHz ticks. indicat when the segment will be over and when the next segmentation message will occur.Shall be 0 for end messages.the time signal will continue until insert a cancellation message when not specify the duration.
UPIDType	Integer	No	Corresponds to SCTE-35 segmentation_upid_type parameter.
UPID	String	No	Corresponds to SCTE-35 segmentation_upid.
TypeID	Integer	No	Corresponds to SCTE-35 segmentation_type_id.
Num	Integer	No	Corresponds to SCTE-35 segment_num。 This field provides support for numbering segments within a given collection of segments.
Expected	Integer	No	Corresponds to SCTE-35 segment_expected.This field provides a count of the expected number of individual segments within a collection of segments.
SubSegmentNum	Integer	No	Corresponds to SCTE-35 sub_segment_num.This field provides

			identification for a specific sub-segment within a collection of sub-segments.
SubSegmentsExpected	Integer	No	Corresponds to SCTE-35 sub_segments_expected. This field provides a count of the expected number of individual sub-segments within the collection of sub-segments.

SegmentationDescriptorRespInfo

SCTE-35 configuration information.

Used by actions: DescribeStreamLivePlans.

Name	Type	Description
EventID	Integer	A 32-bit unique segmentation event identifier. Only one occurrence of a given segmentation_event_id value shall be active at any one time.
EventCancelIndicator	Integer	Indicates that a previously sent segmentation event, identified by segmentation_event_id, has been cancelled.
DeliveryRestrictions	DeliveryRestrictionsInfo	Distribution configuration.
Duration	String	The duration of the segment in 90kHz ticks. indicate when the segment will be over and when the next segmentation message will occur. Shall be 0 for end messages. the time signal will continue until insert a cancellation message when not specify the duration.
UPIDType	Integer	Corresponds to SCTE-35 segmentation_upid_type parameter.
UPID	String	Corresponds to SCTE-35 segmentation_upid.
TypeID	Integer	Corresponds to SCTE-35 segmentation_type_id.
Num	Integer	Corresponds to SCTE-35 segment_num. This field provides support for numbering segments within a given collection of segments.
Expected	Integer	Corresponds to SCTE-35 segment_expected. This field provides a count of the expected number of individual

		segments within a collection of segments.
SubSegmentNum	Integer	Corresponds to SCTE-35 sub_segment_num. This field provides identification for a specific sub-segment within a collection of sub-segments.
SubSegmentsExpected	Integer	Corresponds to SCTE-35 sub_segments_expected. This field provides a count of the expected number of individual sub-segments within the collection of sub-segments.

StreamAudioInfo

Audio information.

Used by actions: DescribeStreamLiveChannelLogs.

Name	Type	Description
Pid	Integer	Audio <code>Pid</code> . Note: this field may return null, indicating that no valid values can be obtained.
Codec	String	Audio codec. Note: this field may return null, indicating that no valid values can be obtained.
Fps	Integer	Audio frame rate. Note: this field may return null, indicating that no valid values can be obtained.
Rate	Integer	Audio bitrate. Note: this field may return null, indicating that no valid values can be obtained.
SampleRate	Integer	Audio sample rate. Note: this field may return null, indicating that no valid values can be obtained.

StreamInfo

Push information.

Used by actions: DescribeStreamLiveChannelLogs.

Name	Type	Description
ClientIp	String	Client IP.

Video	Array of StreamVideoInfo	Video information of pushed streams.
Audio	Array of StreamAudioInfo	Audio information of pushed streams.
Scte35	Array of StreamScte35Info	SCTE-35 information of pushed streams.

StreamLiveChannelInfo

Channel information

Used by actions: DescribeStreamLiveChannel, DescribeStreamLiveChannels.

Name	Type	Description
Id	String	Channel ID
State	String	Channel status
AttachedInputs	Array of AttachedInput	Information of attached inputs
OutputGroups	Array of StreamLiveOutputGroupsInfo	Information of output groups
Name	String	Channel name
AudioTemplates	Array of AudioTemplateInfo	Audio transcoding templates Note: this field may return <code>null</code> , indicating that no valid value was found.
VideoTemplates	Array of VideoTemplateInfo	Video transcoding templates Note: this field may return <code>null</code> , indicating that no valid value was found.
AVTemplates	Array of AVTemplate	Audio/Video transcoding templates Note: this field may return <code>null</code> , indicating that no valid value was found.
PlanSettings	PlanSettings	Event settings Note: This field may return <code>null</code> , indicating that no valid value was found.
EventNotifySettings	EventNotifySetting	The callback settings. Note: This field may return <code>null</code> , indicating that no valid value was found.
InputLossBehavior	InputLossBehaviorInfo	Supplement the last video frame configuration

		settings.
PipelineInputSettings	PipelineInputSettingsInfo	Pipeline configuration.

StreamLiveOutputGroupsInfo

Channel output group information

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Name	String	Yes	Output group name, which can contain 1 case-sensitive letters, digits, and unders and must be unique at the channel level
Type	String	Yes	Output protocol Valid values: <code>HLS</code> , <code>DASH</code> , <code>HLS_ARCHIVE</code> , <code>HLS_STREAM_PAC</code> <code>DASH_STREAM_PACKAGE</code>
Outputs	Array of OutputInfo	Yes	Output information If the type is RTMP or RTP, only one out allowed; if it is HLS or DASH, 1-10 output allowed.
Destinations	Array of DestinationInfo	Yes	Relay destinations. Quantity: [1, 2]
HlsRemuxSettings	HlsRemuxSettingsInfo	No	HLS protocol configuration information, \ takes effect only for HLS/HLS_ARCHIVE/HLS_STREAM_P. outputs. Note: this field may return <code>null</code> , indic that no valid value was found.
DrmSettings	DrmSettingsInfo	No	DRM configuration information Note: this field may return <code>null</code> , indic that no valid value was found.
DashRemuxSettings	DashRemuxSettingsInfo	No	DASH protocol configuration information takes effect only for DASH/DASH_ARCH outputs Note: this field may return <code>null</code> , indic that no valid value was found.

StreamPackageSettings	StreamPackageSettingsInfo	No	StreamPackage configuration information is required if the output type is StreamPackage. Note: this field may return <code>null</code> , indicating that no valid value was found.
TimeShiftSettings	TimeShiftSettingsInfo	No	Time-shift configuration information. Note: This field may return <code>null</code> , indicating that no valid value was found.

StreamLiveRegionInfo

StreamLive region information

Used by actions: DescribeStreamLiveRegions.

Name	Type	Description
Regions	Array of RegionInfo	List of StreamLive regions

StreamPackageSettingsInfo

StreamPackage settings when the output type is StreamPackage

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Id	String	Yes	Channel ID in StreamPackage

StreamScte35Info

SCTE-35 information.

Used by actions: DescribeStreamLiveChannelLogs.

Name	Type	Description
Pid	Integer	SCTE-35 <code>Pid</code> . Note: this field may return null, indicating that no valid values can be obtained.

StreamVideoInfo

Video information of pushed streams.

Used by actions: DescribeStreamLiveChannelLogs.

Name	Type	Description
Pid	Integer	Video <code>Pid</code> . Note: this field may return null, indicating that no valid values can be obtained.
Codec	String	Video codec. Note: this field may return null, indicating that no valid values can be obtained.
Fps	Integer	Video frame rate. Note: this field may return null, indicating that no valid values can be obtained.
Rate	Integer	Video bitrate. Note: this field may return null, indicating that no valid values can be obtained.
Width	Integer	Video width. Note: this field may return null, indicating that no valid values can be obtained.
Height	Integer	Video height. Note: this field may return null, indicating that no valid values can be obtained.

TimeShiftSettingsInfo

Time-shift configuration. This parameter is valid only for HLS_ARCHIVE and DASH_ARCHIVE output groups.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
State	String	No	Whether to enable time shifting. Valid values: <code>OPEN</code> ; <code>CLOSE</code> Note: This field may return <code>null</code> , indicating that no valid value was found.
PlayDomain	String	No	Domain name bound for time shifting Note: This field may return <code>null</code> , indicating that no valid value was found.
StartoverWindow	Integer	No	Allowable time-shift period (s). Value range: [300, 2592000].

Default value: 300Note: This field may return `null` , indicating that no valid value was found.

TimedMetadataInfo

Transparent transmission of meta information plan configuration.

Used by actions: CreateStreamLivePlan, DescribeStreamLivePlans.

Name	Type	Required	Description
ID3	String	No	Base64-encoded id3 metadata information, with a maximum limit of 1024 characters.

TimedMetadataSettingInfo

Transparent transmission of ID3 information configuration.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Behavior	Integer	No	Whether to transparently transmit ID3 information, optional values: 0:NO_PASSTHROUGH, 1:PASSTHROUGH, default 0.

TimedRecordSettings

Timed recording settings

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
AutoClear	String	No	Whether to automatically delete finished recording events. Valid values: <code>CLOSE</code> , <code>OPEN</code> . If this parameter is left empty, <code>CLOSE</code> will be used. If it is set to <code>OPEN</code> , a recording event will be deleted 7 days after it is finished.

Note: This field may return `null` , indicating that no valid value was found.

TimingSettingsReq

Event trigger time settings

Used by actions: CreateStreamLivePlan.

Name	Type	Required	Description
StartType	String	Yes	Event trigger type. Valid values: <code>FIXED_TIME</code> , <code>IMMEDIATE</code> . This parameter is required if <code>EventType</code> is <code>INPUT_SWITCH</code> .
Time	String	No	This parameter is required if <code>EventType</code> is <code>INPUT_SWITCH</code> and <code>StartType</code> is <code>FIXED_TIME</code> . It must be in UTC format, e.g., <code>2020-01-01T12:00:00Z</code> .
StartTime	String	No	This parameter is required if <code>EventType</code> is <code>TIMED_RECORD</code> . It specifies the recording start time in UTC format (e.g., <code>2020-01-01T12:00:00Z</code>) and must be at least 1 minute later than the current time.
EndTime	String	No	This parameter is required if <code>EventType</code> is <code>TIMED_RECORD</code> . It specifies the recording end time in UTC format (e.g., <code>2020-01-01T12:00:00Z</code>) and must be at least 1 minute later than the recording start time.

TimingSettingsResp

Event trigger time settings

Used by actions: DescribeStreamLivePlans.

Name	Type	Required	Description
StartType	String	Yes	Event trigger type
Time	String	No	Not empty if <code>StartType</code> is <code>FIXED_TIME</code> . UTC time, such as <code>2020-01-01T12:00:00Z</code>
StartTime	String	No	This parameter cannot be empty if <code>EventType</code> is <code>TIMED_RECORD</code> .

			It indicates the start time for recording in UTC format (e.g., <code>2020-01-01T12:00:00Z</code>) and must be at least 1 minute later than the current time.
EndTime	String	No	This parameter cannot be empty if <code>EventType</code> is <code>TIMED_RECORD</code> . It indicates the end time for recording in UTC format (e.g., <code>2020-01-01T12:00:00Z</code>) and must be at least 1 minute later than the start time for recording.

VideoPipelineInputStatistics

Pipeline input video statistics.

Used by actions: DescribeStreamLiveChannelInputStatistics.

Name	Type	Description
Fps	Integer	Video FPS.
Rate	Integer	Video bitrate in bps.
Pid	Integer	Video <code>Pid</code> , which is available only if the input is <code>rtp/udp</code> .

VideoTemplateInfo

Video transcoding template.

Used by actions: CreateStreamLiveChannel, DescribeStreamLiveChannel, DescribeStreamLiveChannels, ModifyStreamLiveChannel.

Name	Type	Required	Description
Name	String	Yes	Video transcoding template name, which can contain 1-20 letters and digits.
Vcodec	String	No	Video codec. Valid values: H264/H265. If this parameter is left empty, the original value will be used.
VideoBitrate	Integer	No	Video bitrate. Value range: [50000,40000000]. The value can only be a multiple of 1,000. If this parameter is left empty, the original value will be used.
Width	Integer	No	Video width. Value range: (0,3000]. The value can only be

			a multiple of 4. If this parameter is left empty, the original value will be used.
Height	Integer	No	Video height. Value range: (0,3000]. The value can only be a multiple of 4. If this parameter is left empty, the original value will be used.
Fps	Integer	No	Video frame rate. Value range: [1,240]. If this parameter is left empty, the original value will be used.
TopSpeed	String	No	Whether to enable top speed codec. Valid value: CLOSE/OPEN. Default value: CLOSE.
BitrateCompressionRatio	Integer	No	Top speed codec compression ratio. Value range: [0,50]. The lower the compression ratio, the higher the image quality.
RateControlMode	String	No	Bitrate control mode. Valid values: <code>CBR</code> , <code>ABR</code> (default)
WatermarkId	String	No	Watermark ID Note: This field may return <code>null</code> , indicating that no valid value was found.

Error Codes

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Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

```
{
  "Response": {
    "Error": {
      "Code": "AuthFailure.SignatureFailure",
      "Message": "The provided credentials could not be validated. Please check your signature is correct."
    },
    "RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
  }
}
```

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	<code>Authorization</code> in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please

	ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

	limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Service Error Codes

Error Code	Description
InvalidParameter.AVTemplates	Audio/Video transcoding template error
InvalidParameter.AlreadyAssociatedChannel	<code>Channel</code> already associated.
InvalidParameter.AlreadyAssociatedInput	<code>Input</code> already associated.
InvalidParameter.AttachedInputs	Invalid <code>AttachedInputs</code> .
InvalidParameter.AudioTemplates	Incorrect audio transcoding template.
InvalidParameter.ChannelId	Channel ID error.
InvalidParameter.EndTime	Invalid <code>EndTime</code> .
InvalidParameter.ExceededQuantityLimit	The quantity exceeds the limit.
InvalidParameter.Id	Invalid <code>Id</code> .

InvalidParameter.ImageSettings	Watermark image configuration error.
InvalidParameter.InputSettings	Invalid <code>InputSettings</code> .
InvalidParameter.Name	Invalid <code>Name</code> .
InvalidParameter.NotFound	Not found.
InvalidParameter.NotifyKey	Callback key format error.
InvalidParameter.NotifyUrl	Callback URL format error.
InvalidParameter.OutputGroups	Invalid <code>OutputGroups</code> .
InvalidParameter.PageNum	Page number error.
InvalidParameter.Plan	Invalid <code>Plan</code> parameter
InvalidParameter.SecurityGroups	Invalid <code>SecurityGroups</code> .
InvalidParameter.StartTime	Invalid <code>StartTime</code> .
InvalidParameter.State	Exceptional status.
InvalidParameter.StateError	Incorrect status.
InvalidParameter.TextSettings	Watermark text configuration error.
InvalidParameter.Type	Invalid <code>Type</code> .
InvalidParameter.VideoTemplates	Incorrect video transcoding template.
InvalidParameter.Whitelist	Invalid <code>Whitelist</code> .