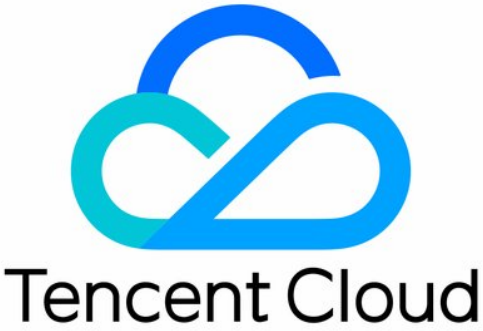
Tencent Interactive Whiteboard

Server APIs

Product Documentation



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Server APIs
History

Last updated：2023-12-07 10:46:26

Release 4

Release time: 2023-12-07 10:43:49

Release updates:

Improvement to existing documentation.

Deleted APIs:

- CreateOfflineRecord
- DescribeOfflineRecord
- DescribeOfflineRecordCallback
- SetOfflineRecordCallback

Release 3

Release time: 2023-10-30 17:00:00

Release updates:

Improvement to existing documentation.

Deprecated APIs:

- CreateOfflineRecord
- DescribeOfflineRecord
- DescribeOfflineRecordCallback
- SetOfflineRecordCallback

Modified APIs:

- DescribeTranscode
  - New output parameters:CreateTime, AssignTime, FinishedTime

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Release 2

Release time: 2023-05-29 17:06:20

Release updates:

Improvement to existing documentation.

New APIs:

- ApplyTiwTrial
- CreateApplication
- CreateOfflineRecord
- CreateSnapshotTask
- CreateVideoGenerationTask
- DescribeAPIService
- DescribeApplicationInfos
- DescribeApplicationUsage
- DescribeBoardSDKLog
- DescribeIMApplications
- DescribeOfflineRecord
- DescribeOfflineRecordCallback
- DescribePostpaidUsage
- DescribeQualityMetrics
- DescribeRecordSearch
- DescribeRoomList
- DescribeSnapshotTask
- DescribeTIWDailyUsage
- DescribeTIWRoomDailyUsage
- DescribeTranscodeSearch
- DescribeUsageSummary
- DescribeUserList
- DescribeUserResources
- DescribeUserStatus
- DescribeVideoGenerationTask
- DescribeVideoGenerationTaskCallback
- DescribeWhiteboardApplicationConfig
- DescribeWhiteboardBucketConfig
- DescribeWhiteboardPush
- DescribeWhiteboardPushCallback

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- DescribeWhiteboardPushSearch
- ModifyApplication
- ModifyAutoRenewFlag
- ModifyWhiteboardApplicationConfig
- ModifyWhiteboardBucketConfig
- SetOfflineRecordCallback
- SetVideoGenerationTaskCallback
- SetVideoGenerationTaskCallbackKey
- SetWhiteboardPushCallback
- SetWhiteboardPushCallbackKey
- StartWhiteboardPush
- StopWhiteboardPush

Modified APIs:

- CreateTranscode
  - New input parameters:ExtraData, Priority, MinScaleResolution, AutoHandleUnsupportedElement
- DescribeOnlineRecord
  - New output parameters:ReplayUrl, Interrupts
- DescribeTranscode
  - New output parameters:ResourceListUrl, Ext
- StartOnlineRecord
  - New input parameters:RecordMode, ChatGroupId, AutoStopTimeout, ExtraData

New data structures:

- ApplicationItem
- AuthParam
- DataItem
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- RoomListItem
- RoomUsageDataItem
- SnapshotCOS
- SnapshotResult
- SnapshotWhiteboard
- Tag

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- TimeValue
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- TranscodeTaskSearchResult
- UsageDataItem
- UserListItem
- WhiteboardApplicationConfig
- WhiteboardPushBackupParam
- WhiteboardPushResult
- WhiteboardPushTaskSearchResult

Release 1

Release time: 2020-07-30 20:30:40

Release updates:

Improvement to existing documentation.

New APIs:

- CreateTranscode
- DescribeOnlineRecord
- DescribeOnlineRecordCallback
- DescribeTranscode
- DescribeTranscodeCallback
- PauseOnlineRecord
- ResumeOnlineRecord
- SetOnlineRecordCallback
- SetOnlineRecordCallbackKey
- SetTranscodeCallback
- SetTranscodeCallbackKey
- StartOnlineRecord
- StopOnlineRecord

New data structures:

- Canvas
- Concat
- CustomLayout
- LayoutParams

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- MixStream
- OmittedDuration
- StreamLayout
- VideoInfo
- Whiteboard

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Introduction

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Tencent Interactive Whiteboard provides a comprehensive digital whiteboard service that enhances interactivity between students and teachers in online classrooms. It offers rich, intuitive features that make class fun and more effective, including interactive graffiti, real-time synchronization, file sharing, media sharing, and file transcoding. It can also record and play back full teaching sessions with whiteboard presentations and audio/video in sync. High scalability and flexible use deliver an interactive teaching experience on par with that of an in-person class, significantly improving the quality of online education.

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API Category

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Whiteboard Snapshot APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateSnapshotTask	Creates a whiteboard snapshot task	20
DescribeSnapshotTask	Queries the information about a whiteboard snapshot task	20

Whiteboard Push APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeWhiteboardPush	Queries a whiteboard push task	20
DescribeWhiteboardPushCallback	Queries the whiteboard push callback URL	20
DescribeWhiteboardPushSearch	Queries whiteboard push tasks by room ID	20
SetWhiteboardPushCallback	Sets the whiteboard push callback URL	20
SetWhiteboardPushCallbackKey	Sets the callback authentication key for whiteboard push	20
StopWhiteboardPush	Stops a whiteboard push task	20
StartWhiteboardPush	Starts a whiteboard push task	20

Recording Video Generation APIs (in Beta Testing)

API Name	Feature	Frequency Limit

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		(maximum requests per second)
CreateVideoGenerationTask	Creates a recording video generation task	20
DescribeVideoGenerationTask	Queries the status and result of a recording video generation task	20
DescribeVideoGenerationTaskCallback	Queries the callback URL for recording video generation	20
SetVideoGenerationTaskCallback	Sets the callback URL for recording video generation	20
SetVideoGenerationTaskCallbackKey	Sets the callback authentication key for recording video generation	20

Other APIs

API Name	Feature	Frequency Limit (maximum requests per second)
ApplyTiwTrial	Applies for a Tencent Interactive Whiteboard trial	20
CreateApplication	Creates a whiteboard application	20
DescribeAPIService	Queries the information about other cloud products	20
DescribeApplicationInfos	Queries the details of a whiteboard application	20
DescribeApplicationUsage	Queries the subproduct usage of Tencent Interactive Whiteboard	20
DescribeBoardSDKLog	Queries the logs of a whiteboard application	20
DescribeIMApplications	Queries available IM applications	20
DescribePostpaidUsage	Queries the pay-as-you-go usage of a user	20
DescribeRoomList	Queries the rooms of a whiteboard	20

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	application	
DescribeUsageSummary	Queries the summary of subproduct usage	20
DescribeUserList	Queries the users of a whiteboard application	20
DescribeUserResources	Queries user resources	20
DescribeUserStatus	Queries the Tencent Interactive Whiteboard service status of a user	20
DescribeWhiteboardApplicationConfig	Queries the task-related configurations of a whiteboard application	20
DescribeWhiteboardBucketConfig	Queries the bucket configurations of a whiteboard application	20
ModifyApplication	Modifies a whiteboard application	20
ModifyAutoRenewFlag	Sets auto-renewal	20
ModifyWhiteboardApplicationConfig	Modifies the task-related configurations of a whiteboard application	20
ModifyWhiteboardBucketConfig	Modifies the bucket configurations of a whiteboard application	20

Document Transcoding APIs

API Name	Feature	Frequency Limit (maximum requests per second)
CreateTranscode	Creates a document transcoding task	20
DescribeTranscode	Queries document transcoding tasks	20
DescribeTranscodeCallback	Queries the document transcoding callback URL	20
DescribeTranscodeSearch	Queries transcoding tasks by document name	20

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SetTranscodeCallback	Sets the document transcoding callback URL	20
SetTranscodeCallbackKey	Sets the key for the document transcoding callback.	20

Real-Time Recording APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeOnlineRecord	Querying a real-time recording task	20
DescribeOnlineRecordCallback	Queries the real-time recording callback URL	20
DescribeRecordSearch	Queries real-time recording tasks by room ID	20
PauseOnlineRecord	Pauses real-time recording	20
ResumeOnlineRecord	Resumes real-time recording	20
SetOnlineRecordCallback	Sets the real-time recording callback URL	20
SetOnlineRecordCallbackKey	Sets the key for the real-time recording callback	20
StartOnlineRecord	Starts real-time recording	20
StopOnlineRecord	Stops real-time recording	20

Statistics Query APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeQualityMetrics	Queries the quality data of a whiteboard application	20
DescribeTIWDailyUsage	Queries the daily billable usage of a whiteboard application	20

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DescribeTIWRoomDailyUsage	Queries the daily billable usage by room	20

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Making API Requests
Request Structure

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1. Service Address

The API supports access from either a nearby region (at tiw.tencentcloudapi.com) or a specified region (at tiw.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 "tiw.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)	tiw.tencentcloudapi.com
South China (Guangzhou)	tiw.ap-guangzhou.tencentcloudapi.com
East China (Shanghai)	tiw.ap-shanghai.tencentcloudapi.com
North China (Beijing)	tiw.ap-beijing.tencentcloudapi.com
Southwest China (Chengdu)	tiw.ap-chengdu.tencentcloudapi.com
Southwest China (Chongqing)	tiw.ap-chongqing.tencentcloudapi.com
Hong Kong, Macao, Taiwan (Hong Kong, China)	tiw.ap-hongkong.tencentcloudapi.com
Southeast Asia (Singapore)	tiw.ap-singapore.tencentcloudapi.com
Southeast Asia (Bangkok)	tiw.ap-bangkok.tencentcloudapi.com

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

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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 `Action` in the input parameters in r documentation. For example, the API for querying the CVM instance list i `DescribeInstances` .
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 `Region` in the input parameters in related API documentati parameter is not required for some APIs (which will be indicated in relate 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 `Version` 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

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			parameter) in UTC time format; service is the name of the product/service generally a domain name prefix. For example, a domain name cvm.tencen refers to the CVM product and the value would be cvm; - SignedHeaders: The headers that contains the authentication informatic 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 tempora can obtain the temporary key and token by calling a CAM API. No token i 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/20
18-10-09/cvm/tc3_request, SignedHeaders=content-type;host, Signature=5da7a33f6993
f0614b047e5df4582db9e9bf4672ba50567dba16c6ccf174c474
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=582c400e06b5924a6f2b5d7d672d79c15b1316
2d9279b0855cfba6789a8edb4c
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):

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```
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 `Action` in the input parameters in related API documentation. For example, the API for querying the CVM instance list is `DescribeInstances`.
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 `Region` 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.

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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 `Timestamp` 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 `Version` 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&Sign
atureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb45
9b1bbee224158d66e7ae5fcadb70b2d181d02&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:

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```
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=37ac2f4fde00b0ac9bd9eadeb459b1bbee224158d66e7ae5fcadb70b2d18
1d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

Region List

The supported Region field values for all APIs in this product are listed as below. For any API that does not support any of the following regions, this field will be described additionally in the relevant API document.

Region	Value
South China (Guangzhou)	ap-guangzhou
Southeast Asia Pacific (Singapore)	ap-singapore

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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,

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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' +
```

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

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses `POST` .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty st “” for POST requests, and is the string after the question mark (?) for GET requests. Fo example: Limit=10&Offset=0。 Note: `CanonicalQueryString` must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All speci characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of `host` `content-type` . Custom headers can be added to participate in the signature proce improve the uniqueness and security of the request. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase with the lead and trailing spaces removed, so they are concatenated in the format of key:value\n format; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is `content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n` . Note: `content-type` 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 sever will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the heac in CanonicalHeaders). `Content-type` and `host` are required headers. Concatenation rules: 1. Both the key and value of the header should be converted to lowercase; 2. If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is `content-type;host`
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as `{"Limit": 1, "Filter`

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	`[{"Values": ["unnamed"], "Name": "instance-name"}]` in this exampl 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 enco string to lowercase letters. For GET requests, `RequestPayload` is always an empt string. The calculation result in this example is `99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b49`

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 UT time, whose value should match the UTC date converted by the common parameter `X-TC-Timestamp`**; `service` is the product name, which should m the domain name of the product called. The calculation result in this example is `2019-02-25/cvm/tc3_request`.

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HashedCanonicalRequest	Hash value of the CanonicalRequest string concatenated in the steps above. The pseudocode for calculation is Lowercase(HexEncode(Hash.SHA256(CanonicalRequ The calculation result in this example is `2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3ad`

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
2815843035062fffda5fd6f2a44ea8a34818b0dc46f024b8b3786976a3adda7a
```

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.

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Service	Value in the Service field in `Credential`, such as `cvm` 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 `TC3-HMAC-SHA256`.
SecretId	The SecretId in the key pair, i.e., `AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******`.
CredentialScope	Credential scope (see above). The calculation result in this example is `2019-02-25/cvm/tc3_request`.
SignedHeaders	Header information for signature calculation (see above), such as `content-type;host` in this example.
Signature	Signature value. The calculation result in this example is `c492e8e41437e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff`.

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

```
TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/2019-02-25/cvm/tc
3_request, SignedHeaders=content-type;host, Signature=c492e8e41437e97a620b728c301
bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

The following example shows a finished authorization header:

```
POST https://cvm.tencentcloudapi.com/
Authorization: TC3-HMAC-SHA256 Credential=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******/20
19-02-25/cvm/tc3_request, SignedHeaders=content-type;host, Signature=c492e8e41437
e97a620b728c301bb8d17e7dc0c17eeabce80c20cd70fc3a78ff
```

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```
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&InstanceIds.0=ins-09dx96dg&Limit=20&Nonce=11886&Offset=0&Region=ap-guangzhou&SecretId=AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******&Signature=EliP9YW3pW28FpsEdkXt%2F%2BWcGeI%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.

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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 ************
```

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```
String httpRequestMethod = "POST";
String canonicalUri = "/";
String canonicalQueryString = "";
String canonicalHeaders = "content-type:application/json; charset=utf-8\n" + "hos
t:" + 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" + canoni
calQueryString + "\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, string
ToSign)).toLowerCase();
System.out.println(signature);

// ************* Step 4: Concatenate the Authorization *************
String authorization = algorithm + " " + "Credential=" + SECRET_ID + "/" + creden
tialScope + ", "
+ "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)
```

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```
.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.utcfromtimestamp(timestamp).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" +
```

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```
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")).hexd
igest()
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.sha2
56).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

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```
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,
```

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```
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

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```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 = "";
$canonicalHeaders = "content-type:application/json; charset=utf-8\n"."host:".$hos
t."\n";
$signedHeaders = "content-type;host";
$payload = '{"Limit": 1, "Filters": [{"Values": ["unnamed"], "Name": "instance-na
me"}]}';
$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;
```

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```
// 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 = ''
```

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```
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 \
```

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```
+ ' -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
```

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```
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);
```

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```
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 proj
ect, 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\\u5
47d\\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);
}
}
```

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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" + "hos
t:" + endpoint + "\n"

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

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```
+ 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()
```

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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++)
{
snprintf(buf, sizeof(buf), "%02x", hash[i]);
NewString = NewString + buf;
}
return NewString;
```

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

HMAC_CTX *h;
#if OPENSSL_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 OPENSSL_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* const 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]);
}
```

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```
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" + canoni
calQueryString + "\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" + credentialScop
e + "\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");
```

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```
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).

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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.

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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',
}
```

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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

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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

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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.

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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.getAlg
orithm());
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. TreeM
ap 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 UnsupportedEnc
odingException {
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()) {
```

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```
// The request string needs to be URL encoded. As the Key is all in English lette
rs, only the value is URL encoded here.
url.append(k).append("=").append(URLEncoder.encode(params.get(k).toString(), CHAR
SET)).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 enable
s automatic sorting
// A random number should be used when actually calling, for example: params.put
("Nonce", new Random().nextInt(java.lang.Integer.MAX_VALUE));
params.put("Nonce", 11886); // Common parameter
// The current time of the system should be used when actually calling, for examp
le: params.put("Timestamp", System.currentTimeMillis() / 1000);
params.put("Timestamp", 1465185768); // Common parameter
params.put("SecretId", "AKIDz8krbsJ5yKBZQpn74WFkmLPx3*******"); // Common paramet
er
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*******"
```

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```
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*******"
```

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```
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*******";
$param["Nonce"] = 11886;//rand();
```

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

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```
'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, sig
n))
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> requestPa
rams, string requestMethod, string requestHost, string requestPath)
```

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```
{
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
aram, StringComparer.Ordinal);
string sigInParam = MakeSignPlainText(headers, "GET", endpoint, "/");
Console.WriteLine(sigInParam);
string sigOutParam = Sign(SECRET_KEY, sigInParam);
```

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```
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, '.');
```

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```
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()
```

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Responses

Last updated：2023-05-29 18:02:45

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 s
ignature is correct."
},
"RequestId": "ed93f3cb-f35e-473f-b9f3-0d451b8b79c6"
}
}
```

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- 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.

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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.

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Whiteboard Snapshot APIs
CreateSnapshotTask

Last updated：2023-12-07 10:46:26

1. API Description

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

This API is used to create a whiteboard snapshot task. If a callback URL is provided, the whiteboard snapshot result is sent to the callback URL after the task is complete.

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: CreateSnapshotTask.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
Whiteboard	Yes	SnapshotWhiteboard	Whiteboard parameters.
SdkAppId	Yes	Integer	`SdkAppId` of the whiteboard application.

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RoomId	Yes	Integer	Whiteboard room ID.
CallbackURL	No	String	Callback URL to which the whiteboard snapshot result is to be sent.
COS	No	SnapshotCOS	`COS` bucket in which the generated whiteboard snapshot file is to be stored. If you leave this parameter empty, the generated file will be stored in the public bucket and retained for only three days.
SnapshotMode	No	String	Whiteboard snapshot mode. Default value: `AllMarks` . Valid values: `AllMarks` : Full mode. In this mode, a snapshot image is generated based on each whiteboard snapshot mark that is added by calling the `addSnapshotMark` API on the client. `LatestMarksOnly` : Single-page deduplication mode. In this mode, a snapshot image is generated based only on the latest whiteboard snapshot mark that is added by calling the `addSnapshotMark` API on the client if the API is called multiple times for the same whiteboard snapshot. **Note: The `LatestMarksOnly` mode takes effect only when the `addSnapshotMark` API is called by using Tencent Interactive Whiteboard SDK v2.6.8 or later. Otherwise, even if this parameter is set to `LatestMarksOnly` , the default `AllMarks` mode is used.**

3. Output Parameters

Parameter Name	Type	Description
TaskID	String	ID of the whiteboard snapshot task. This parameter is returned only if a task is created successfully.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

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4. Example

Example1 Creating a whiteboard snapshot task

Input Example

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

{
"COS": {
"TargetDir": "snapshot/",
"Region": "ap-guangzhou",
"Bucket": "test-123070000",
"Domain": "xxx.file.com",
"Uin": 130001358
},
"Whiteboard": {
"Width": 1280,
"InitParams": "{\"ratio\":\"16:9\"}",
"Height": 720
},
"RoomId": 12345,
"SdkAppId": 1400123480,
"CallbackURL": "http://xx/callback"
}
```

Output Example

```
{
"Response": {
"TaskID": "d1806f20-25b8-4c30-8176-c0832bf84e02",
"RequestId": "fe36df20-25b8-4c30-8176-cff28afacb25"
}
}
```

5. Developer Resources

SDK

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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	A parameter error occurred.
RequestLimitExceeded	Too many requests.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeSnapshotTask

Last updated：2023-12-07 10:46:26

1. API Description

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

This API is used to query the information about a whiteboard snapshot task.

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: DescribeSnapshotTask.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
TaskID	Yes	String	ID of the query task.
SdkAppId	Yes	Integer	SdkAppId of the task.

3. Output Parameters

Parameter Name	Type	Description

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TaskID	String	Task ID. Note: This parameter may return null, indicating that no valid values can be obtained.
Status	String	Task status. Running: The task is running. Finished: The task is finished. Note: This parameter may return null, indicating that no valid values can be obtained.
CreateTime	Integer	Creation time of the task. Unit: seconds. Note: This parameter may return null, indicating that no valid values can be obtained.
FinishTime	Integer	Completion time of the task. Unit: seconds. Note: This parameter may return null, indicating that no valid values can be obtained.
Result	SnapshotResult	Task result information. Note: This parameter may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the information about a task

Input Example

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

{
"SdkAppId": 1400127230,
"TaskID": "f2e1728c-6e87-4481-abe1-cde8542a5a10"
}
```

Output Example

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```
{
"Response": {
"CreateTime": 1626249427,
"FinishTime": 1626250455,
"RequestId": "38d75752-85e0-4931-9837-d41be5409a0a",
"Result": {
"ErrorCode": "OK",
"ErrorMessage": "",
"Snapshots": [
"http://tiw-snapshot-1259648581.cos.ap-guangzhou.myqcloud.com/880520/f2e1728c-6e87-4481-abe1-cde8542a5a10/53255368873480.png",
"http://tiw-snapshot-1259648581.cos.ap-guangzhou.myqcloud.com/880520/f2e1728c-6e87-4481-abe1-cde8542a5a10/53255373174978.png",
"http://tiw-snapshot-1259648581.cos.ap-guangzhou.myqcloud.com/880520/f2e1728c-6e87-4481-abe1-cde8542a5a10/53255375472670.png"
],
"Total": 3
},
"Status": "Finished",
"TaskID": "f2e1728c-6e87-4481-abe1-cde8542a5a10"
}
}
```


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

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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
AuthFailure	
InternalError	Internal error.
InvalidParameter	A parameter error occurred.
RequestLimitExceeded	Too many requests.
ResourceUnavailable	The resource is unavailable.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.
UnknownParameter	Unknown parameter error.
UnsupportedOperation	Unsupported operation.

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Whiteboard Push APIs
DescribeWhiteboardPush

Last updated：2023-12-07 10:46:28

1. API Description

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

This API is used to query the status and result of a whiteboard push task.

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: DescribeWhiteboardPush.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
TaskId	Yes	String	ID of the whiteboard push task.

3. Output Parameters

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Parameter Name	Type	Description
FinishReason	String	Reason for push stop. - AUTO: Pushing automatically stops because no upstream audio/video or whiteboard operation occurs in the room for a long time. - USER_CALL: The API for stopping pushing is called. - EXCEPTION: An exception occurred.
TaskId	String	ID of the whiteboard push task.
Status	String	Status of the push task. - PREPARED: Push in preparation (including entering the room and starting the push service). - PUSHING: Pushing in progress. - STOPPED: Pushing stopped.
RoomId	Integer	Room ID.
GroupId	String	Group ID of the whiteboard.
PushUserId	String	User ID of the push task.
PushStartTime	Integer	Actual push start time, which is a Unix timestamp in seconds.
PushStopTime	Integer	Actual push stop time, which is a Unix timestamp in seconds.
ExceptionCnt	Integer	Number of exceptions during push.
IMSyncTime	Integer	IM timestamp corresponding to the first frame of the whiteboard push video. The timestamp is used for time synchronization between IM messages and the whiteboard push video during playback.
Backup	String	Result information of the backup push task. Note: This parameter may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a whiteboard push task

Input Example

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```
https://tiw.tencentcloudapi.com/?Action=DescribeWhiteboardPush
&SdkAppId=1400000001
&TaskId=ghucnligqtgtvk2624mb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"ExceptionCnt": 0,
"FinishReason": "USER_CALL",
"GroupId": "880528",
"IMSyncTime": 0,
"PushStartTime": 1610591726,
"PushStopTime": 1610591759,
"PushUserId": "tic_push_user_880528_test1",
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
"RoomId": 880528,
"Status": "STOPPED",
"Backup": "",
"TaskId": "g42lfmu5uc3lpoqrqvvb"
}
}
```

Example2 Querying failed whiteboard push tasks

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeWhiteboardPush
&SdkAppId=1400000001
&TaskId=ghucnligqtgtvk2624mb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

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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
AuthFailure	
FailedOperation.WhiteboardPush	Whiteboard push failed. For more information, see the error description.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.TaskNotFound	The task to query does not exist.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeWhiteboardPushCallback

Last updated：2023-12-07 10:46:28

1. API Description

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

This API is used to query the whiteboard push callback URL.

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: DescribeWhiteboardPushCallback.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.

3. Output Parameters

Parameter Name	Type	Description

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Callback	String	Callback URL of the whiteboard push event. If no callback URL is set, this parameter is null.
CallbackKey	String	Callback authentication key for whiteboard push.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the whiteboard push callback URL

This example shows you how to query the whiteboard push callback URL.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeWhiteboardPushCallback
&SdkAppId=1400000001
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Callback": "https://example.com/online/callback",
"CallbackKey": "6vg9G7Fd",
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

5. Developer Resources

SDK

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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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeWhiteboardPushSearch

Last updated：2023-12-07 10:46:27

1. API Description

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

This API is used to query whiteboard push tasks by room ID.

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: DescribeWhiteboardPushSearch.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
WhiteboardPushTaskSet	Array of WhiteboardPushTaskSearchResult	The set of queried push tasks.

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TotalCount	Integer	Number of push tasks.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Success.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeWhiteboardPushSearch
&Offset=0
&Limit=1
&RoomId=101069223
&<Common request parameters>
```

Output Example


```
{
"Response": {
"WhiteboardPushTaskSet": [
{
"CreateTime": "2021-01-15T12:43:57+08:00",
"RoomId": 101069223,
"TaskId": "01bjgeeigsh31f3rh00c",
"Status": "STOPPED",
"SdkAppId": 1400313729,
"PushUserId": "tic_push_user_101069223_107991",
"Result": {
"RoomId": 101069223,
"GroupId": "101069223",
"FinishReason": "USER_CALL",
"ExceptionCnt": 0,
"PushStartTime": 1610685839,
"PushStopTime": 1610685852,
"IMSyncTime": 0,
"ErrorCode": 0,
"ErrorMsg": ""
}
}
],
"TotalCount": 1,
```


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```
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

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
AuthFailure	
FailedOperation	Operation failed.
InvalidParameter	A parameter error occurred.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.

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UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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SetWhiteboardPushCallback

Last updated：2023-12-07 10:46:27

1. API Description

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

This API is used to set the whiteboard push callback URL. For more information, see Event Notification.

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: SetWhiteboardPushCallback.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
Callback	Yes	String	Callback URL of the whiteboard push task result. If an empty string is passed in, the existing callback URL is deleted. The callback URL only supports the HTTP or HTTPS protocol, and therefore the callback URL must start with `http://` or `https://`. For the callback format, see Event Notification.

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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 Setting the whiteboard push callback URL

Input Example

```
https://tiw.tencentcloudapi.com/?Action=SetWhiteboardPushCallback
&SdkAppId=1400000001
&Callback=https://example.com/online/callback
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

5. Developer Resources

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- Tencent Cloud SDK 3.0 for .NET
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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
AuthFailure	
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.CallbackAddressFormatError	The callback address format is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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SetWhiteboardPushCallbackKey

Last updated：2023-12-07 11:07:01

1. API Description

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

This API is used to set the callback authentication key for whiteboard push. For more information, see Event Notification.

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: SetWhiteboardPushCallbackKey.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
CallbackKey	Yes	String	Callback authentication key for whiteboard push. It is a string that can have up to 64 characters. If an empty string is passed in, the existing callback authentication key is deleted. For more information, see Event Notification.

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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 Setting the callback authentication key for whiteboard push

Input Example

```
https://tiw.tencentcloudapi.com/?Action=SetWhiteboardPushCallbackKey
&SdkAppId=1400000001
&CallbackKey=6vg9G7Fd
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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StopWhiteboardPush

Last updated：2023-12-07 10:46:27

1. API Description

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

This API is used to stop a whiteboard push task.

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: StopWhiteboardPush.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
TaskId	Yes	String	ID of the whiteboard push task to be stopped.

3. Output Parameters

Parameter Name	Type	Description

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Backup	String	Parameters of the backup task. Note: This parameter may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Stopping a whiteboard push task

Input Example

```
https://tiw.tencentcloudapi.com/?Action=StopWhiteboardPush
&SdkAppId=1400000001
&TaskId=07b4c70bpafm1b4majmb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Backup": "{\"RequestId\":\"87c334b8-dbf6-4013-8d65-9a9ea60eff27\"}",
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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
AuthFailure	
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
InvalidParameter.TaskNotFound	The task to query does not exist.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.
UnsupportedOperation.TaskHasAlreadyStopped	The task is completed, and therefore the specified operation cannot be performed.

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StartWhiteboardPush

Last updated：2023-12-07 10:46:27

1. API Description

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

This API is used to start a whiteboard push task.

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 t StartWhiteboardPush.
Version	Yes	String	Common Params. The value used for t 2019-09-19.
Region	Yes	String	Common Params. For more informatio see the list of regions supported by the This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard applicatio
RoomId	Yes	Integer	Room ID of the whiteboard push task. ' (1,4294967295). 1. By default, the whiteboard push task RoomId string as the GroupID of the IM example, if the RoomId string is 1234, of the IM group is also 1234. Message

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			synchronization requires joining a grou sure that an IM group is created before starts. Otherwise, the push fails. 2. If neither TRTCRoomId nor TRTCR specified, the value of RoomId is used Tencent Real-Time Communication (T ID for the whiteboard push task.
PushUserId	Yes	String	User ID used by the whiteboard push s entering the whiteboard room. If `IMAuthParam` and `TRTCAuthPar` specified, this user ID is used for opera as logging in to the IM application, join group, and entering the room for TRTC push. The ID cannot exceed 60 bytes in leng be an unused ID. The whiteboard push uses the user ID to enter the room for v audio/video push. If this ID is already u another scenario, the other scenario ar whiteboard push service will conflict, a pushing operation.
PushUserSig	Yes	String	User's IM signature corresponding to t PushUserId.
Whiteboard	No	Whiteboard	Whiteboard parameters, such as the w and background color of the whiteboar
AutoStopTimeout	No	Integer	Whiteboard push timeout. Unit: seconc range: [300,259200]. Default value: 18 If no operation is performed on the whi the specified period of time, the whiteb service automatically stops whiteboarc
AutoManageBackup	No	Boolean	Specifies whether to synchronize opera primary whiteboard push task to the ba
Backup	No	WhiteboardPushBackupParam	Parameters of the backup whiteboard After the backup parameters are speci whiteboard push service adds a relaye stream. That is, there are two video str whiteboard in the same room.
PrivateMapKey	No	String	Advanced permission control paramet

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			If the advanced permission control feat enabled in TRTC, this parameter is rec
VideoFPS	No	Integer	Frame rate of the whiteboard push vide range: [0,30]. Default value: 20. Unit: fp
VideoBitrate	No	Integer	Whiteboard push bitrate. Valid range: [Default value: 1200. Unit: kbps. The bitrate specified here is a referenc During actual push, a dynamic bitrate i actual bitrate does not remain the spec but rather fluctuates around it.
AutoRecord	No	Boolean	Specifies whether to automatically reco whiteboard push when the recording m TRTC is set to `SubscribeStreamU` Default value: `false` . If you need to automatic whiteboard push recording, parameter to `true` . If the recording mode in TRTC is set to `Auto Recording` , ignore this paran
UserDefinedRecordId	No	String	ID of the whiteboard push recording. T in the `userdefinerecordid` para callback message after cloud recordin complete in TRTC, helping you identify recording callback and locate the video media resource management. The value can be up to 64 bytes in leng contain letters (a-z and A-Z), digits (0-9 underscores (_), and hyphens (-). After this parameter is set, automatic w push recording is enabled regardless o of the `AutoRecord` parameter. Default RecordId generation rule: urlencode(SdkAppID_RoomID_PushU Example: SdkAppID = 12345678, RoomID = 12 PushUserID = push_user_1

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			Therefore: RecordId = 12345678_12345_push_user_1
AutoPublish	No	Boolean	Specifies whether to enable automatic whiteboard push when the relay push r TRTC is set to `SubscribeRelayUs` Default value: `false` . If you need to automatic relay whiteboard push, set th parameter to `true` . If the recording mode in TRTC is set to `Auto Relay` , ignore this parameter.
UserDefinedStreamId	No	String	Stream ID used by TRTC for relay whit push. With this ID, you can stream the audio/video by using the domain name standard streaming solution (FLV or HI TRTC. The value can be up to 64 bytes in leng contain letters (a-z and A-Z), digits (0-9 underscores (_), and hyphens (-). After this parameter is set, automatic r whiteboard push is enabled regardless of the `AutoPublish` parameter. Default StreamID generation rule: urlencode(SdkAppID_RoomID_PushU Example: SdkAppID = 12345678, RoomID = 12 PushUserID = push_user_1 Therefore, StreamID = 12345678_12345_push_user_1_main
ExtraData	No	String	Internal parameter. You can ignore this
TRTCRoomId	No	Integer	TRTC room ID of the numeric type. Va (1,4294967295). If RoomId and TRTCRoomId are both the value of TRTCRoomId takes priorit room ID for TRTC whiteboard push.

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			If the TRTCRoomIdStr parameter is sp parameter is ignored.
TRTCRoomIdStr	No	String	TRTC room ID of the string type. If TRTCRoomIdStr is specified, its valu priority as the room ID for TRTC whiteb
IMAuthParam	No	AuthParam	IM authentication parameters. If the ID of the IM application used by v messages is different from SdkAppId c whiteboard application, specify this pa provide authentication information of th application. If this parameter is specified, the white service preferably uses the SdkAppId parameter as the transmission channe whiteboard messages. If this paramete empty, the SdkAppId value in the comr parameters is used.
TRTCAuthParam	No	AuthParam	TRTC authentication parameters, usec entrance authentication for TRTC push If the ID of the TRTC application to wh target TRTC room belongs is different SdkAppId of the whiteboard applicatio this parameter to provide authenticatio information of the TRTC application. If this parameter is specified, the white service preferably uses the SdkAppId parameter as the ID of the target TRTC application. If this parameter is left emp SdkAppId value in the common param used.
TRTCEnterRoomMode	No	String	This parameter is available only to use allowlist for trial. TRTC room entrance mode for whiteb Default value: `TRTCAppSceneVideo` `TRTCAppSceneVideoCall` : This s most suitable when there are two or mo on a video call. The internal encoders a

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			protocols are optimized for video smoo reduce call latency and lagging. `TRTCAppSceneLIVE` : This scenari suitable when there is only one person performing for an online audience, and occasionally multiple people interact w another through video. The internal enc network protocols are optimized for pe and compatibility to deliver better perfo video clarity.

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	Push task ID.
Backup	String	Result parameters of the backup task. Note: This parameter may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Starting a whiteboard push task

This example shows you how to create a whiteboard push task.

Input Example

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

{
"PushUserId": "tic_push_user_1203_141551",
"PushUserSig": "usersig_of_<tic_push_user_1203_141551>",
```

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```
"RoomId": "1203",
"SdkAppId": "1400000001"
}
```

Output Example

```
{
"Response": {
"Backup": "{\"RequestId\":\"8e9b2bc4-ec7f-46cd-823b-66676e2375f8\",\"TaskId\":\"0
52lfmu5uc3lp0rrqvvb\"}",
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"TaskId": "bj0mt2l23osdj300hl30"
}
}
```

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

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AuthFailure	
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.InvalidExtra	The specified special feature does not exist.
InvalidParameter.RecordParameter	The format of the real-time recording parameter is invalid.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
LimitExceeded.TaskConcurrency	The number of concurrent transcoding or recording tasks exceeds the limit. For more information, see the error description or try again later.
ResourceInUse.RecordUserId	The recording user account for real-time recording has started another recording task.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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Document Transcoding APIs
CreateTranscode

Last updated：2023-12-07 10:46:36

1. API Description

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

This API is used to create a document transcoding task.

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: CreateTranscode.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the customer
Url	Yes	String	URL of the transcoded document after URL encoding. URL encoding converts characters into a format that can be transmitted over the Internet. For example, URL encoding can convert the document

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			URL http://example.com/Test.pdf into http://example.com/%E6%B5%8B%E8%AF%95.pc To improve the success rate of URL parsing, use URL encoding.
IsStaticPPT	No	Boolean	Whether the PowerPoint file is static. The default value is False. If IsStaticPPT is False, documents with the .ppt or .pptx extension will be dynamically transcoded to HTML5 pages, and documents with other extension will be statically transcoded to images. If IsStaticPP is True, documents with any extensions will be statically transcoded to images.
MinResolution	No	String	Note: This parameter is disused. Use the MinScaleResolution parameter to pass in a resolution. For more information, see CreateTranscode. Minimum resolution of the transcoded document. If no value or null is specified for it or the resolution format is invalid, the original document resolution is used. Example: 1280x720. Note that the character between the numbers is the letter x.
ThumbnailResolution	No	String	Resolution of the thumbnail generated for the dynamically transcoded PowerPoint file. If no value or null is specified for it or the resolution format is invalid, no thumbnail will be generated. The resolution format is the same as that of MinResolution. For static transcoding, this parameter does not work
CompressFileType	No	String	Compression format of the transcoded file. If no valu or null is specified for it or the specified format is invalid, no compression file will be generated. Currently, the following compression formats are supported: `zip` : generates a .zip compression package. `tar.gz: generates a .tar.gz compression package.
ExtraData	No	String	Internal parameter.

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Priority	No	String	Document transcoding priority. This parameter take effect only for PowerPoint dynamic transcoding. Val values: - low: Low transcoding priority. The task can transcode at most 500 MB of data or a 2000-page document, with a download timeout no longer than 10 minutes. Due to resource limits, these tasks may have to queue for a long period of time. Consider thi before you use this feature. - null: Normal transcoding priority. The task can transcode at most 200 MB of data or a 500-page document, with a download timeout no longer than 2 minutes. Note: For static transcoding such as PDF transcoding, each task can transcode at most 200 MB of data regardless of the transcoding priority.
MinScaleResolution	No	String	Minimum resolution of the transcoded document. If no value or null is specified for it or the resolution format is invalid, the original document resolution is used. Higher resolution brings clearer visual effect, but als means larger size of the transcoded image resource and longer loading time of the transcoded file. Set this parameter appropriately based on your actual scenario. Example: 1280x720. Note that the character between the numbers is the letter x.
AutoHandleUnsupportedElement	No	Boolean	Specifies whether to enable auto handling of unsupported elements. By default, this feature is disabled. If auto handling is enabled, the following processes are performed: 1. Inkblots: Remove unsupported inkblots, such as those drawn by using WPS. 2. Auto page flip: Clear the auto page clip settings ir the PowerPoint file and set the page flip mode to mouse click. 3. Corrupted audio/videos: Remove the references t corrupted audio/videos in the PowerPoint file.

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3. Output Parameters

Parameter Name	Type	Description
TaskId	String	Unique ID of the document transcoding task, which is used to query the task progress and transcoding result
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a PowerPoint dynamic transcoding task

This example shows you how to create a dynamic transcoding task for a PowerPoint file and generate a 960×540 thumbnail.

Input Example

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

{
"Url": "https://path/to/document.ppt",
"ThumbnailResolution": "960x540",
"SdkAppId": "1400000001"
}
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"TaskId": "g6ls63ps49vteb8bk1mb"
}
}
```

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Example2 Creating a PowerPoint static transcoding task

This example shows you how to create a static transcoding task for a PowerPoint file.

Input Example

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

{
"Url": "https://path/to/document.ppt",
"IsStaticPPT": "True",
"SdkAppId": "1400000001"
}
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"TaskId": "g6ls63ps49vteb8bk1mb"
}
}
```

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++

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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
AuthFailure	
FailedOperation.Transcode	Failed to transcode. For more information, see the error description or contact our customer service.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.FileFormatUnsupported	The document extension is not supported.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
InvalidParameter.TranscodeParameter	The document transcoding parameter format is invalid.
LimitExceeded.TaskConcurrency	The number of concurrent transcoding or recording tasks exceeds the limit. For more information, see the error description or try again later.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeTranscode

Last updated：2023-12-07 10:46:36

1. API Description

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

This API is used to query the progress and result of a document transcoding task.

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: DescribeTranscode.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the customer
TaskId	Yes	String	Unique ID of the document transcoding task

3. Output Parameters

Parameter Name	Type	Description

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Pages	Integer	Total number of document pages
Progress	Integer	Transcoding progress. Value range: 0 to 100
Resolution	String	Document resolution
ResultUrl	String	URL of the transcoding result Dynamic transcoding: link of the HTML5 page transcoded from a PowerPoint file Static transcoding: URL prefix of the image transcoded for each document page. For example, if the URL prefix is `http://example.com/g0jb42ps49vtebjshilb/` , the image URL of the first page is `http://example.com/g0jb42ps49vtebjshilb/1.jpg` , and so on.
Status	String	Current task state - QUEUED: queuing for transcoding - PROCESSING: transcoding is in progress - FINISHED: transcoded
TaskId	String	Unique ID of the transcoding task
Title	String	Document name
ThumbnailUrl	String	URL prefix of the thumbnail. If the URL prefix is `http://example.com/g0jb42ps49vtebjshilb/` , the thumbnail URL for the first page of the dynamically transcoded PowerPoint file is `http://example.com/g0jb42ps49vtebjshilb/1.jpg` , and so on. If the document transcoding request carries the ThumbnailResolution parameter and the transcoding type is dynamic transcoding, this parameter is not null. In other cases, this parameter is null.
ThumbnailResolution	String	Resolution of the thumbnail generated for dynamic transcoding
CompressFileUrl	String	URL for downloading the transcoded and compressed file. If `CompressFileType` carried in the document transcoding request is null or is not a supported compression format, this parameter is null.
ResourceListUrl	String	Download URL (for trial) of the resource list. Note: This parameter may return null, indicating that no valid values can be obtained.
Ext	String	Document generation mode (for trial). Note: This parameter may return null, indicating that no valid values can be

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		obtained.
CreateTime	Integer	Document transcoding task creation time, unit: seconds. Note: This parameter may return null, indicating that no valid values can be obtained.
AssignTime	Integer	Document transcoding task assignment time, unit: seconds. Note: This parameter may return null, indicating that no valid values can be obtained.
FinishedTime	Integer	Document transcoding task finished time, unit: seconds. Note: This parameter may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a dynamic document transcoding task

This example shows you how to query the result of a dynamic document transcoding task.

Input Example

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

{
"TaskId": "g0jb42ps49vtebjshilb",
"SdkAppId": "1400000001"
}
```

Output Example

```
{
"Response": {
"Pages": 1,
"Progress": 100,
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
"Resolution": "793x1122",
```

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```
"ResultUrl": "https://transcode-result/0agdnligqtgtvkm65emb/index.html",
"Status": "FINISHED",
"TaskId": "0agdnligqtgtvkm65emb",
"Title": "59378.docx",
"ThumbnailUrl": "https://transcode-thumbnal/0agdnligqtgtvkm65emb/",
"ThumbnailResolution": "793x1122",
"CompressFileUrl": "",
"ResourceListUrl": "https://transcode-result/0agdnligqtgtvkm65emb/resources.txt",
"Ext": "Office"
}
}
```


Example2 Querying a static document transcoding task

This example shows you how to query the result of a static document transcoding task.

Input Example

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

{
"TaskId": "g0jb42ps49vtebjshilb",
"SdkAppId": "1400000001"
}
```

Output Example


```
{
"Response": {
"Pages": 1,
"Progress": 100,
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
"Resolution": "793x1122",
"ResultUrl": "https://transcode-result/0agdnligqtgtvkm65emb/",
"Status": "FINISHED",
"TaskId": "0agdnligqtgtvkm65emb",
"Title": "59378.docx",
"ThumbnailUrl": "",
"ThumbnailResolution": "",
"CompressFileUrl": "",
"ResourceListUrl": "https://transcode-result/0agdnligqtgtvkm65emb/resources.txt",
"Ext": "Office"
```


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```
}
}
```

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 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
AuthFailure	
FailedOperation.FileDownloadFail	Failed to download the document. To correct this, check whether the URL in the request parameter is correct. If you are using another file storage service, check the upload bandwidth of the file storage service. The document transcoding service supports downloading with a maximum duration of 1 minute. If the download fails, the transcoding request will also fail.
FailedOperation.FileFormatError	The document format is invalid. Read-only or encrypted documents cannot be transcoded.

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FailedOperation.FileOpenFail	Failed to open the document. To correct this, check whether the document for transcoding is encrypted or encounters other format issues.
FailedOperation.FileUploadFail	Failed to upload the transcoding result. To correct this, try again later.
FailedOperation.Transcode	Failed to transcode. For more information, see the error description or contact our customer service.
FailedOperation.TranscodeServerError	The transcoding service encountered an internal error. Please try again later or contact our customer service.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.FileFormatUnsupported	The document extension is not supported.
InvalidParameter.TaskNotFound	The task to query does not exist.
InvalidParameter.TranscodeParameter	The document transcoding parameter format is invalid.
InvalidParameter.UrlFormatError	The document download URL format is invalid. To correct this, check the URL in the request parameter.
LimitExceeded.TranscodePagesLimitation	The number of pages exceeds the limit. Transcoding a file with more than 500 pages is currently unsupported. If you do need this feature, contact our customer service.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeTranscodeCallback

Last updated：2023-12-07 10:46:36

1. API Description

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

This API is used to query the document transcoding callback address.

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: DescribeTranscodeCallback.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the application

3. Output Parameters

Parameter Name	Type	Description

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Callback	String	Document transcoding callback address
CallbackKey	String	Authentication key of the document transcoding callback
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the document transcoding callback URL

This example shows you how to query the document transcoding callback URL.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeTranscodeCallback
&SdkAppId=1400000001
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Callback": "https://example.com/transcode/callback",
"CallbackKey": "6vg9G7Fd",
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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

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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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeTranscodeSearch

Last updated：2023-12-07 10:46:36

1. API Description

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

This API is used to query transcoding tasks by document name.

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: DescribeTranscodeSearch.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
TranscodeTaskSet	Array of TranscodeTaskSearchResult	The set of queried transcoding tasks.

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TotalCount	Integer	Number of transcoding tasks.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Success.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeTranscodeSearch
&Offset=0
&Limit=1
&Keyword=Pinyin
&<Common request parameters>
```

Output Example


```
{
"Response": {
"TranscodeTaskSet": [
{
"CreateTime": "2020-08-21T16:05:36+08:00",
"Status": "FINISHED",
"TaskId": "ggdb2vjdnc3lp0k0ovsb",
"OriginalFilename": "Pinyin.pptx",
"SdkAppId": 1400127140,
"IsStatic": false,
"Result": {
"ResultUrl": "https://whiteboard-cam-test-1257307760.cos.ap-nanjing.myqcloud.com/doc/ggdb2vjdnc3lp0k0ovsb_tiw/h5/index.html",
"Resolution": "960x540",
"Title": "Pinyin.pptx",
"Pages": 20,
"ThumbnailUrl": "",
"ThumbnailResolution": "",
"CompressFileUrl": "",
"ErrorCode": 0,
"ErrorMsg": "ppt convert sucess!"
}
}
],
"TotalCount": 1340,
```


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```
"RequestId": "bc309eaa-6d64-11e8-a7fe-5254000b4175"
}
}
```

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
AuthFailure	
FailedOperation	Operation failed.
InvalidParameter	A parameter error occurred.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.

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UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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SetTranscodeCallback

Last updated：2023-12-07 11:07:02

1. API Description

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

This API is used to set the callback address for document transcoding. For the callback format, please see here.

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: SetTranscodeCallback.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the customer
Callback	Yes	String	Callback address for the document transcoding progress. If an empty string is passed in, the existing callback address will be deleted. The callback address only supports the HTTP or HTTPS protocol, so the callback address must start with `http://` or `https://`. For more information about the callback format, please see here.

3. Output Parameters

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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 Setting the document transcoding callback URL

Input Example

```
https://tiw.tencentcloudapi.com/?Action=SetTranscodeCallback
&SdkAppId=1400000001
&Callback=https://example.com/transcode/callback
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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
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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
AuthFailure	
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.CallbackAddressFormatError	The callback address format is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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SetTranscodeCallbackKey

Last updated：2023-12-07 11:07:01

1. API Description

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

This API is used to set the callback authentication key for document transcoding. For more information, see Event Notification.

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: SetTranscodeCallbackKey.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the application
CallbackKey	Yes	String	Authentication key for the document transcoding callback. It is a string that can have up to 64 characters. If an empty string is passed in, the existing callback authentication key will be deleted. For more information about callback authentication, please see here.

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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 Setting the callback authentication key for document transcoding

Input Example

```
https://tiw.tencentcloudapi.com/?Action=SetTranscodeCallbackKey
&SdkAppId=1400000001
&CallbackKey=6vg9G7Fd
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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Real-Time Recording APIs
DescribeOnlineRecord

Last updated：2023-12-07 10:46:31

1. API Description

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

This API is used to query the status and result of a real-time recording task.

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: DescribeOnlineRecord.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the customer
TaskId	Yes	String	ID of the real-time recording task

3. Output Parameters

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Parameter Name	Type	Description
FinishReason	String	Recording stop reason - AUTO: Recording automatically stops because no upstream audio/video or whiteboard operation occurs in the room for a long time. - USER_CALL: The API for stopping recording is called. - EXCEPTION: An exception occurred. - FORCE_STOP: Recording is forcibly stopped, which is usually because the recording has been paused for more than 90 minutes or has lasted for more than 24 hours.
TaskId	String	ID of the recording task to be queried.
Status	String	Recording task status - PREPARED: preparing - RECORDING: recording - PAUSED: recording is paused. - STOPPED: recording is stopped, and the recorded video is being processed and uploaded. - FINISHED: the recorded video has been processed and uploaded, and the recording result is generated.
RoomId	Integer	Room ID
GroupId	String	Group ID of the whiteboard
RecordUserId	String	ID of the recording user
RecordStartTime	Integer	Actual recording start time, which is a UNIX timestamp in seconds
RecordStopTime	Integer	Actual recording stop time, which is a UNIX timestamp in seconds
TotalTime	Integer	Total video playback duration, in milliseconds
ExceptionCnt	Integer	Number of exceptions during recording
OmittedDurations	Array of OmittedDuration	Duration to be deleted in the spliced video. This parameter is valid only when the video splicing feature is enabled.
VideoInfos	Array of VideoInfo	List of recorded videos
ReplayUrl	String	
Interrupts	Array of Interrupt	Number of video stream interruptions during recording. Note: This parameter may return null, indicating that no valid values can be obtained.

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

4. Example

Example1 Querying the information about a real-time recording task

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeOnlineRecord
&SdkAppId=1400000001
&TaskId=ghucnligqtgtvk2624mb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"ExceptionCnt": 0,
"FinishReason": "USER_CALL",
"GroupId": "880528",
"OmittedDurations": [],
"RecordStartTime": 1568949369,
"RecordStopTime": 1568949392,
"RecordUserId": "tic_record_user_880528_test-01",
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
"RoomId": 880528,
"Status": "FINISHED",
"TaskId": "ghucnligqtgtvk2624mb",
"TotalTime": 18317,
"ReplayUrl": "http://replayurl",
"Interrupts": [],
"VideoInfos": [
{
"UserId": "Mac_trtc_04",
"VideoDuration": 17969,
"VideoFormat": "mp4",
"VideoId": "dace3518e865e76a9e36712c629822ba",
"VideoPlayTime": 0,
"VideoSize": 593418,
"VideoType": 0,
"Width": 640,
"Height": 360,
```

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```
"VideoUrl": "http://online-recording-1259648581.file.myqcloud.com/00sp43mantgtv4r842mb/d124f518e865e76a9e36712c629822ba.mp4"
},
{
"UserId": "tic_mixstream_880528_101",
"VideoDuration": 18205,
"VideoFormat": "mp4",
"VideoId": "763d1f6b8679c3f17fb118bd37d05c85",
"VideoPlayTime": 3,
"VideoSize": 765545,
"VideoType": 3,
"Width": 640,
"Height": 360,
"VideoUrl": "http://online-recording-1259648581.file.myqcloud.com/00sp43mantgtv4r842mb/763d1f6b86724f51fb118bd37d05c85.mp4"
},
{
"UserId": "tic_mixstream_880528_3",
"VideoDuration": 18222,
"VideoFormat": "mp4",
"VideoId": "1b9623df0516dc7318df89f6e7fffc1e",
"VideoPlayTime": 95,
"VideoSize": 402038,
"VideoType": 3,
"Width": 640,
"Height": 360,
"VideoUrl": "http://online-recording-1259648581.file.myqcloud.com/00sp43mantgtv4r842mb/1b9623df05124f51318df89f6e7fffc1e.mp4"
},
{
"UserId": "",
"VideoDuration": 17605,
"VideoFormat": "mp4",
"VideoId": "a8152f8faa2cfe621dc965a066a5813c",
"VideoPlayTime": 623,
"VideoSize": 226337,
"VideoType": 2,
"Width": 640,
"Height": 360,
"VideoUrl": "http://online-recording-1259648581.file.myqcloud.com/00sp43mantgtv4r842mb/a815224f512cfe621dc965a066a5813c.mp4"
}
]
}
}
```


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Example2 Querying failed real-time recording tasks

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeOnlineRecord
&SdkAppId=1400000001
&TaskId=ghucnligqtgtvk2624mb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

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
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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.

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Error Code	Description
AuthFailure	
FailedOperation.Record	Failed to record. For more information, see the error description.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.TaskNotFound	The task to query does not exist.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeOnlineRecordCallback

Last updated：2023-12-07 10:46:31

1. API Description

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

This API is used to query the real-time recording callback address.

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: DescribeOnlineRecordCallback.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the application

3. Output Parameters

Parameter Name	Type	Description

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Callback	String	Callback address of the real-time recording event. If no callback address is set, this field is null.
CallbackKey	String	Authentication key of the real-time recording callback
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the real-time recording callback URL

This example shows you how to query the real-time recording callback URL.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeOnlineRecordCallback
&SdkAppId=1400000001
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Callback": "https://example.com/online/callback",
"CallbackKey": "6vg9G7Fd",
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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

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- 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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeRecordSearch

Last updated：2023-12-07 10:46:31

1. API Description

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

This API is used to query real-time recording tasks by room ID.

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: DescribeRecordSearch.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
RecordTaskSet	Array of RecordTaskSearchResult	The set of queried recording tasks.

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TotalCount	Integer	Number of recording tasks.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Success.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeRecordSearch
&Offset=0
&Limit=1
&RoomId=880528
&<Common request parameters>
```

Output Example


```
{
"Response": {
"RecordTaskSet": [
{
"CreateTime": "2020-08-24T21:53:56+08:00",
"RoomId": 880528,
"TaskId": "gvft1qbrvs2331tcs1tb",
"Status": "FINISHED",
"SdkAppId": 1400127140,
"Result": {
"FinishReason": "USER_CALL",
"ExceptionCnt": 0,
"RoomId": 880528,
"GroupId": "880528",
"RecordStartTime": 1598277240,
"RecordStopTime": 1598277614,
"TotalTime": 368433,
"VideoInfos": [
{
"VideoDuration": 368332,
"UserId": "",
"VideoSize": 10731806,
"VideoUrl": "http://whiteboard-cam-test-1257307760.cos.ap-nanjing.myqcloud.com/vi
deo/gvft1qbrvs2331tcs1tb/0cf156ea197a8012073e6b690f44e530.mp4",
"VideoType": 2,
```


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```
"VideoPlayTime": 0,
"VideoFormat": "mp4",
"VideoId": "0cf156ea197a8012073e6b690f44e530",
"Width": 1280,
"Height": 960
},
{
"VideoDuration": 368325,
"UserId": "tic_mixstream_880528_custom",
"VideoSize": 12276476,
"VideoUrl": "http://whiteboard-cam-test-1257307760.cos.ap-nanjing.myqcloud.com/video/gvft1qbrvs2331tcs1tb/ae62799da16a83ab9eb3da0bb37ef89f.mp4",
"VideoType": 3,
"VideoPlayTime": 108,
"VideoFormat": "mp4",
"VideoId": "ae62799da16a83ab9eb3da0bb37ef89f",
"Width": 1624,
"Height": 1000
},
{
"VideoDuration": 181102,
"UserId": "tic_mixstream_880528_101",
"VideoSize": 3743450,
"VideoUrl": "http://whiteboard-cam-test-1257307760.cos.ap-nanjing.myqcloud.com/video/gvft1qbrvs2331tcs1tb/54797f6b83940a708c7b7aecc2f1d1a9.mp4",
"VideoType": 3,
"VideoPlayTime": 28918,
"VideoFormat": "mp4",
"VideoId": "54797f6b83940a708c7b7aecc2f1d1a9",
"Width": 496,
"Height": 368
},
{
"VideoDuration": 35405,
"UserId": "tiw_web_736",
"VideoSize": 3001045,
"VideoUrl": "http://whiteboard-cam-test-1257307760.cos.ap-nanjing.myqcloud.com/video/gvft1qbrvs2331tcs1tb/7e562e9d513d12a2e03bea1514cc40fc.mp4",
"VideoType": 0,
"VideoPlayTime": 29475,
"VideoFormat": "mp4",
"VideoId": "7e562e9d513d12a2e03bea1514cc40fc",
"Width": 1280,
"Height": 720
},
{
"VideoDuration": 161885,
```


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```
"UserId": "tiw_web_310",
"VideoSize": 9974368,
"VideoUrl": "http://whiteboard-cam-test-1257307760.cos.ap-nanjing.myqcloud.com/vi
deo/gvft1qbrvs2331tcs1tb/9ba564cba92925a02a88ef3ee874b586.mp4",
"VideoType": 0,
"VideoPlayTime": 47535,
"VideoFormat": "mp4",
"VideoId": "9ba564cba92925a02a88ef3ee874b586",
"Width": 1280,
"Height": 720
},
{
"VideoDuration": 6085,
"UserId": "tiw_web_736",
"VideoSize": 283329,
"VideoUrl": "http://whiteboard-cam-test-1257307760.cos.ap-nanjing.myqcloud.com/vi
deo/gvft1qbrvs2331tcs1tb/9517ed0696f910865ecaf22a07be4c0f.mp4",
"VideoType": 0,
"VideoPlayTime": 64903,
"VideoFormat": "mp4",
"VideoId": "9517ed0696f910865ecaf22a07be4c0f",
"Width": 960,
"Height": 540
},
{
"VideoDuration": 96787,
"UserId": "tiw_web_736",
"VideoSize": 5604352,
"VideoUrl": "http://whiteboard-cam-test-1257307760.cos.ap-nanjing.myqcloud.com/vi
deo/gvft1qbrvs2331tcs1tb/cdda0043fb734600d14324c4364213e2.mp4",
"VideoType": 0,
"VideoPlayTime": 115401,
"VideoFormat": "mp4",
"VideoId": "cdda0043fb734600d14324c4364213e2",
"Width": 1280,
"Height": 720
}
],
"OmittedDurations": [],
"Details": "",
"ErrorCode": 0,
"ErrorMsg": ""
}
}
],
"TotalCount": 151,
"RequestId": "bc309eaa-6d64-11e8-a7fe-5254000b4175"
```


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```
}
}
```

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
AuthFailure	
FailedOperation	Operation failed.
InvalidParameter	A parameter error occurred.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent

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	Cloud account.

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PauseOnlineRecord

Last updated：2023-12-07 10:46:30

1. API Description

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

This API is used to pause real-time recording.

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: PauseOnlineRecord.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the customer
TaskId	Yes	String	ID of the real-time recording task

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Pausing a real-time recording task

Input Example

```
https://tiw.tencentcloudapi.com/?Action=PauseOnlineRecord
&SdkAppId=1400000001
&TaskId=bj0mt2l23osdj300hl30
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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

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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
AuthFailure	
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.TaskNotFound	The task to query does not exist.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.
UnsupportedOperation.InvalidTaskStatus	The specified operation cannot be performed for pending tasks in this state. For example, you cannot resume recording for a recording task.
UnsupportedOperation.TaskHasAlreadyStopped	The task is completed, and therefore the specified operation cannot be performed.

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ResumeOnlineRecord

Last updated：2023-12-07 10:46:30

1. API Description

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

This API is used to resume real-time recording.

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: ResumeOnlineRecord.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the customer
TaskId	Yes	String	ID of the resumed real-time recording task

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Resuming a real-time recording task

Input Example

```
https://tiw.tencentcloudapi.com/?Action=ResumeOnlineRecord
&SdkAppId=1400000001
&TaskId=07b4c70bpafm1b4majmb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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
AuthFailure	
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.TaskNotFound	The task to query does not exist.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.
UnsupportedOperation.InvalidTaskStatus	The specified operation cannot be performed for pending tasks in this state. For example, you cannot resume recording for a recording task.
UnsupportedOperation.TaskHasAlreadyStopped	The task is completed, and therefore the specified operation cannot be performed.

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SetOnlineRecordCallback

Last updated：2023-12-07 11:07:01

1. API Description

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

This API is used to set the real-time recording callback address. For the callback format, please see here.

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: SetOnlineRecordCallback.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the customer
Callback	Yes	String	Callback address of the real-time recording task result. If an empty string is passed in, the existing callback address will be deleted. The callback address only supports the HTTP or HTTPS protocol, so the callback address must start with `http://` or `https://`. For the callback format, please see here.

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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 Setting the real-time recording callback URL

Input Example

```
https://tiw.tencentcloudapi.com/?Action=SetOnlineRecordCallback
&SdkAppId=1400000001
&Callback=https://example.com/online/callback
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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
AuthFailure	
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.CallbackAddressFormatError	The callback address format is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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SetOnlineRecordCallbackKey

Last updated：2023-12-07 11:07:01

1. API Description

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

This API is used to set the callback authentication key for real-time recording. For more information, see Event Notification.

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: SetOnlineRecordCallbackKey.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the application
CallbackKey	Yes	String	Authentication key for the real-time recording callback. It is a string that can have up to 64 characters. If an empty string is passed in, the existing callback authentication key will be deleted. For more information, please see here.

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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 Setting the callback authentication key for real-time recording

Input Example

```
https://tiw.tencentcloudapi.com/?Action=SetOnlineRecordCallbackKey
&SdkAppId=1400000001
&CallbackKey=6vg9G7Fd
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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

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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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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StartOnlineRecord

Last updated：2023-12-07 10:46:30

1. API Description

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

This API is used to start a real-time recording task.

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: StartOnlineRecord.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the customer
RoomId	Yes	Integer	ID of the room for recording. Value range: (1, 4294967295)
RecordUserId	Yes	String	User ID used by the recording service for entering a room. The ID cannot exceed 60 bytes in length. Its format is `tic_record_user_${RoomId}_${Random}` , where `${RoomId}` indicates the ID of the room for

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			recording and `${Random}` is a random string. The ID must be an unused ID in the SDK. The recording service uses the user ID to enter the room for audio, video, and whiteboard recording. If this ID is already used in the SDK, the SDK and recording service will conflict, affecting the recording operation.
RecordUserSig	Yes	String	Signature corresponding to RecordUserId
GroupId	No	String	(Disused) IM group ID of the whiteboard. By default, it is the same as the room ID.
Concat	No	Concat	Real-time recording video splicing parameter
Whiteboard	No	Whiteboard	Real-time recording whiteboard parameter, such as the whiteboard width and height
MixStream	No	MixStream	Real-time recording stream mixing parameter Notes: 1. The stream mixing feature needs to be enabled separately. If you need the feature, contact TIW customer service. 2. To use the stream mixing feature, the Extras parameter is required and must contain "MIX_STREAM".
Extras.N	No	Array of String	List of advanced features used List of possible values: MIX_STREAM - Stream mixing feature
AudioFileNeeded	No	Boolean	Whether to return the audio-only recording file of different streams in the result callback. The file format is mp3.
RecordControl	No	RecordControl	A group of real-time recording parameters. It specifies the streams to be recorded, whether to disable the audio recording, and whether to record only low-resolution videos, etc.
RecordMode	No	String	
ChatGroupId	No	String	
AutoStopTimeout	No	Integer	Recording timeout. Unit: seconds. Valid range: [300,86400]. Default value: 300. If no upstream audio/video exists or no operation is performed on the whiteboard for the specified period of

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			time, the recording service automatically stops the recording task.
ExtraData	No	String	Internal parameter. You can ignore this parameter.

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	ID of the real-time recording task
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Starting real-time recording

Input Example

```
https://tiw.tencentcloudapi.com/?Action=StartOnlineRecord
&SdkAppId=1400000001
&RoomId=1203
&RecordUserId=tic_record_user_1203_141551
&RecordUserSig=usersig_of_<tic_record_user_1203_141551>
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"TaskId": "bj0mt2l23osdj300hl30"
}
}
```

Example2 Starting real-time mixed stream recording

This example shows you how to use a built-in mixed stream layout for mixed stream recording.

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Input Example

```
https://tiw.tencentcloudapi.com/?Action=StartOnlineRecord
&SdkAppId=1400000001
&RoomId=1203
&RecordUserId=tic_record_user_1203_141551
&RecordUserSig=usersig_of_<tic_record_user_1203_141551>
&Whiteboard.Width=1280
&Whiteboard.Height=960
&Whiteboard.InitParam={"ratio":"16:9"}
&Concat.Enabled=true
&Concat.Image=http://background/image.jpg
&MixStream.Enabled=true
&MixStream.DisableAudio=false
&MixStream.ModelId=2
&MixStream.TeacherId=teacher
&Extras.0=MIX_STREAM
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"TaskId": "bj0mt2l23osdj300hl30"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
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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
AuthFailure	
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.InvalidExtra	The specified special feature does not exist.
InvalidParameter.RecordParameter	The format of the real-time recording parameter is invalid.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
LimitExceeded.TaskConcurrency	The number of concurrent transcoding or recording tasks exceeds the limit. For more information, see the error description or try again later.
ResourceInUse.RecordUserId	The recording user account for real-time recording has started another recording task.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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StopOnlineRecord

Last updated：2023-12-07 10:46:30

1. API Description

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

This API is used to stop real-time recording.

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: StopOnlineRecord.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the customer
TaskId	Yes	String	ID of the recording task to stop

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Stopping real-time recording

This example shows you how to stop real-time recording.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=StopOnlineRecord
&SdkAppId=1400000001
&TaskId=07b4c70bpafm1b4majmb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

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

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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
AuthFailure	
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.TaskNotFound	The task to query does not exist.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.
UnsupportedOperation.TaskHasAlreadyStopped	The task is completed, and therefore the specified operation cannot be performed.

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Statistics Query APIs
DescribeQualityMetrics

Last updated：2023-12-07 10:46:28

1. API Description

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

This API is used to query the quality data of a whiteboard application.

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: DescribeQualityMetrics.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	No	String	Common Params. This parameter is not required for this API.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
StartTime	Yes	Integer	Start time, which is a Unix timestamp in seconds. The time length cannot exceed seven days.
EndTime	Yes	Integer	End time, which is a Unix timestamp in seconds. The time length cannot exceed seven days.
Metric	Yes	String	Metrics to be queried. Valid values: - image_load_total_count: The number of image loads.

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			- image_load_fail_count: The number of image load failures. - image_load_success_rate: The success rate of image loading, in percentage. - ppt_load_total_count: The number of PowerPoint file loads. - ppt_load_fail_count: The number of PowerPoint file load failures. - ppt_load_success_rate: The success rate of PowerPoint file loading, in percentage. - verify_sdk_total_count: The number of SDK verifications. - verify_sdk_fail_count: The number of SDK verification failures. - verify_sdk_success_rate: The success rate of SDK verification, in percentage. - verify_sdk_in_one_second_rate: The rate of SDK verification completed within one second, in percentage. - verify_sdk_cost_avg: The average time taken by each SDK verification, in milliseconds.
Interval	No	String	Aggregation interval. Valid value: `1h` .

3. Output Parameters

Parameter Name	Type	Description
Metric	String	Query metrics.
Content	Array of TimeValue	Time series.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying image loading failures of a whiteboard application

Input Example

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

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```
{
"SdkAppId": 1400296030,
"Metric": "image_load_fail_count",
"Interval": "1h",
"StartTime": 1617874404,
"EndTime": 1618479204
}
```

Output Example

```
{
"Response": {
"RequestId": "6c41b5df-2326-4c0b-baca-2fd85ebb4097",
"Metric": "image_load_fail_count",
"Content": [
{
"Time": 1617872400,
"Value": 0
}
]
}
}
```

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
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Command Line Interface

- Tencent Cloud CLI 3.0

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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
AuthFailure	
FailedOperation	Operation failed.
InvalidParameter	A parameter error occurred.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeTIWDailyUsage

Last updated：2023-12-07 10:46:28

1. API Description

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

This API is used to query the daily billable usage of a whiteboard application.

1. The period queried per request cannot be longer than 31 days.
2. Due to statistics delays and other reasons, you cannot query the usage data of the current day. You can query today's usage after 7:00 tomorrow.

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: DescribeTIWDailyUsage.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	No	String	Common Params. This parameter is not required for this API.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
SubProduct	Yes	String	Subproduct usage to be queried. The following parameters are supported: - sp_tiw_board: The duration of use of whiteboards, in minutes. - sp_tiw_dt: The number of pages dynamically transcoded.

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			- sp_tiw_st: The number of pages statically transcoded. - sp_tiw_ric: The duration of real-time recording, in minutes. Note: Dynamic transcoding multiplies the number of pages of a document by eight times. Static transcoding does not change the number of pages of a document.
StartTime	Yes	Date	Start date in the format of YYYY-MM-DD. The start date is included in the query period.
EndTime	Yes	Date	End date in the format of YYYY-MM-DD. The end date is included in the query period. The period queried per request cannot be longer than 31 days.

3. Output Parameters

Parameter Name	Type	Description
Usages	Array of UsageDataItem	Usage summary of a specified product during a specified query period.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the whiteboard usage

This example shows you how to query the whiteboard usage within the period from 2021-09-01 to 2021-09-07.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeTIWDailyUsage
&SdkAppId=1400000001
&SubProduct=sp_tiw_board
&StartTime=2021-09-01
&EndTime=2021-09-07
&<Common request parameters>
```

Output Example

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```
{
"Response": {
"RequestId": "cdfb2097-75d1-4159-ad37-62d9eca65d6a",
"Usages": [
{
"Time": "2021-09-01",
"SdkAppId": 1400000001,
"SubProduct": "sp_tiw_board",
"Value": 779552
},
{
"Time": "2021-09-02",
"SdkAppId": 1400000001,
"SubProduct": "sp_tiw_board",
"Value": 78118
},
{
"Time": "2021-09-03",
"SdkAppId": 1400000001,
"SubProduct": "sp_tiw_board",
"Value": 768385
},
{
"Time": "2021-09-04",
"SdkAppId": 1400000001,
"SubProduct": "sp_tiw_board",
"Value": 94257
},
{
"Time": "2021-09-05",
"SdkAppId": 1400000001,
"SubProduct": "sp_tiw_board",
"Value": 26717
},
{
"Time": "2021-09-06",
"SdkAppId": 1400000001,
"SubProduct": "sp_tiw_board",
"Value": 95296
},
{
"Time": "2021-09-07",
"SdkAppId": 1400000001,
"SubProduct": "sp_tiw_board",
"Value": 70592
}
```


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```
]
}
}
```

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
AuthFailure	
InternalError	Internal error.
InvalidParameter	A parameter error occurred.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
InvalidParameter.TranscodeParameter	The document transcoding parameter format is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.

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ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeTIWRoomDailyUsage

Last updated：2023-12-07 10:46:28

1. API Description

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

This API is used to query the daily billable usage by each room of a whiteboard application.

1. The period queried per request cannot be longer than 31 days.
2. Due to statistics delays and other reasons, you cannot query the usage data of the current day. You can query today's usage after 7:00 tomorrow.

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: DescribeTIWRoomDailyUsage.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	No	String	Common Params. This parameter is not required for this API.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
SubProduct	Yes	String	Subproduct usage to be queried. The following parameters are supported: - sp_tiw_board: The duration of use of whiteboards, in minutes. - sp_tiw_ric: The duration of real-time recording, in minutes.

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StartTime	Yes	Date	Start date in the format of YYYY-MM-DD. The start date is included in the query period.
EndTime	Yes	Date	End date in the format of YYYY-MM-DD. The end date is included in the query period. The period queried per request cannot be longer than 31 days.
RoomIDs.N	No	Array of Integer	Room IDs to be queried. If you leave this parameter empty, all room IDs are queried.
Offset	No	Integer	Offset for query. Default value: `0`.
Limit	No	Integer	Maximum number of entries returned per query. Default value: `20`.

3. Output Parameters

Parameter Name	Type	Description
Usages	Array of RoomUsageDataItem	Usage of the specified product per room during the specified query period.
Total	Integer	Number of usage data entries.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the daily billable usage by each room

This example shows you how to query the daily billable usage by each room of a whiteboard application within the period from 2022-11-24 to 2022-11-25.

Input Example

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

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```
{
"SdkAppId": "1400000001",
"SubProduct": "sp_tiw_board",
"Limit": "20",
"StartTime": "2022-11-24",
"Offset": "0",
"EndTime": "2022-11-25"
}
```

Output Example

```
{
"Response": {
"RequestId": "916f3549-8e91-467c-afcb-b8dacf188e12",
"Usages": [
{
"Time": "2022-11-24",
"SdkAppId": 1400000001,
"SubProduct": "sp_tiw_board",
"RoomID": 432946024,
"Value": 5
},
{
"Time": "2022-11-24",
"SdkAppId": 1400000001,
"SubProduct": "sp_tiw_board",
"RoomID": 523696026,
"Value": 60
},
{
"Time": "2022-11-24",
"SdkAppId": 1400000001,
"SubProduct": "sp_tiw_board",
"RoomID": 1284910005,
"Value": 4
}
],
"Total": 3
}
}
```

5. Developer Resources

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SDK

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- 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
AuthFailure	
InternalError	Internal error.
InvalidParameter	A parameter error occurred.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
InvalidParameter.TranscodeParameter	The document transcoding parameter format is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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Recording Video Generation APIs (in Beta Testing) CreateVideoGenerationTask

Last updated：2023-12-07 10:46:29

1. API Description

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

This API is used to create a recording video generation task.

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: CreateVideoGenerationTask.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
OnlineRecordTaskId	Yes	String	ID of the recording task.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.

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Whiteboard	No	Whiteboard	Whiteboard parameters of the recording video generation task, such as the width and height of the whiteboard. This parameter conflicts with the Whiteboard parameter in the API for starting a recording task. If the two Whiteboard parameters are both specified, the Whiteboard parameter in this API takes priority for recording video generation. If the Whiteboard parameter in this API is not specified, the Whiteboard parameter specified in the API for starting a recording task is used for recording video generation.
Concat	No	Concat	Video splicing parameters. This parameter conflicts with the Concat parameter in the API for starting a recording task. If the two Concat parameters are both specified, the Concat parameter in this API takes priority for video splicing. If the Concat parameter in this API is not specified, the Concat parameter specified in the API for starting a recording task is used for video splicing.
MixStream	No	MixStream	Video stream mixing parameters. This parameter conflicts with the MixStream parameter in the API for starting a recording task. If the two MixStream parameters are both specified, the MixStream parameter in this API takes priority for video stream mixing. If the MixStream parameter in this API is not specified, the MixStream parameter specified in the API for starting a recording task is used for video stream mixing.
RecordControl	No	RecordControl	A group of video generation parameters. It specifies the streams to be generated, whether to disable audio recording for a stream, and whether to record only low-resolution videos, etc. This parameter conflicts with the RecordControl parameter in the API for starting a recording task. If the two RecordControl parameters are both specified, the RecordControl parameter in this API takes priority for video generation control. If the RecordControl parameter in this API is not specified, the RecordControl parameter specified in the API for

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			starting a recording task is used for video generation control.
ExtraData	No	String	Internal parameter.

3. Output Parameters

Parameter Name	Type	Description
TaskId	String	ID of the video generation task.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Starting a recording video generation task

Input Example

```
https://tiw.tencentcloudapi.com/?Action=CreateVideoGenerationTask
&SdkAppId=1400000001
&OnlineRecordTaskId=xxxxx
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397",
"TaskId": "g7khk7f809vterp942mb"
}
}
```

5. Developer Resources

SDK

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- 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
AuthFailure	
FailedOperation	Operation failed.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.InvalidExtra	The specified special feature does not exist.
InvalidParameter.RecordParameter	The format of the real-time recording parameter is invalid.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
LimitExceeded.TaskConcurrency	The number of concurrent transcoding or recording tasks exceeds the limit. For more information, see the error description or try again later.
ResourceInUse.RecordUserId	The recording user account for real-time recording has started another recording task.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the

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	current Tencent Cloud account.

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DescribeVideoGenerationTask

Last updated：2023-12-07 10:46:29

1. API Description

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

This API is used to query the status and result of a recording video generation task.

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: DescribeVideoGenerationTask.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
TaskId	Yes	String	ID of the recording video generation task.

3. Output Parameters

Parameter	Type	Description

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Name		
GroupId	String	Group ID corresponding to the task.
RoomId	Integer	Room ID corresponding to the task.
TaskId	String	Task ID.
Progress	Integer	Disused.
Status	String	Status of the recording video generation task. Valid values: - QUEUED: Queuing. - PROCESSING: Video generation in progress. - FINISHED: Video generation finished. (To determine whether the task succeeded or failed, check the error code and message.)
TotalTime	Integer	Total video playback duration. Unit: milliseconds.
VideoInfos	VideoInfo	Disused. Use the `VideoInfoList` parameter.
VideoInfoList	Array of VideoInfo	List of videos generated by the recording video generation tasks.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a recording video generation task

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeVideoGenerationTask
&SdkAppId=1400000001
&TaskId=ghucnligqtgtvk2624mb
&<Common request parameters>
```

Output Example

```
{
"Response": {
"GroupId": "900822",
"Progress": 100,
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
"RoomId": 900822,
```

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```
"Status": "FINISHED",
"TaskId": "00e1jv8ve0jcqk7da9lb",
"TotalTime": 156750,
"VideoInfoList": [
{
"UserId": "",
"VideoDuration": 156750,
"VideoFormat": "mp4",
"VideoId": "5285890792776509100",
"VideoPlayTime": 0,
"VideoSize": 318384,
"VideoType": 2,
"Width": 1024,
"Height": 768,
"VideoUrl": "http://1257240443.vod2.myqcloud.com/cc35b442vodcq1257240443/video.mp
4"
}
],
"VideoInfos": {
"VideoType": 0,
"VideoUrl": "Disused. Use the VideoInfoList parameter.",
"UserId": "xx",
"VideoId": "xx",
"VideoSize": 0,
"VideoDuration": 0,
"Width": 0,
"Height": 0,
"VideoPlayTime": 0,
"VideoFormat": "xx"
}
}
}
```


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
AuthFailure	
FailedOperation.Record	Failed to record. For more information, see the error description.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.TaskNotFound	The task to query does not exist.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeVideoGenerationTaskCallback

Last updated：2023-12-07 10:46:29

1. API Description

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

This API is used to query the callback URL for recording video generation.

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: DescribeVideoGenerationTaskCallback.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.

3. Output Parameters

Parameter Name	Type	Description

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Callback	String	Callback URL for recording video generation.
CallbackKey	String	Callback authentication key for recording video generation.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the callback URL for recording video generation

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeVideoGenerationTaskCallback
&SdkAppId=1400000001
&<Common request parameters>
```

Output Example

```
{
"Response": {
"Callback": "https://example.com/offline/callback",
"CallbackKey": "6vg9G7Fd",
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

5. Developer Resources

SDK

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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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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SetVideoGenerationTaskCallback

Last updated：2023-12-07 10:46:29

1. API Description

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

This API is used to set the callback URL for recording video generation.

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: SetVideoGenerationTaskCallback.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
Callback	Yes	String	Callback URL of the offline recording task result. If it is specified as null, the set callback URL is deleted. The callback URL only supports the HTTP or HTTPS protocol, and therefore the callback URL must start with `http://` or `https://`.

3. Output Parameters

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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 Setting the callback URL for recording video generation

Input Example

```
https://tiw.tencentcloudapi.com/?Action=SetVideoGenerationTaskCallback
&SdkAppId=1400000001
&Callback=https://example.com/videoGeneration/callback
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

5. Developer Resources

SDK

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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
AuthFailure	
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.CallbackAddressFormatError	The callback address format is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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SetVideoGenerationTaskCallbackKey

Last updated：2023-12-07 10:46:29

1. API Description

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

This API is used to set the callback authentication key for recording video generation.

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: SetVideoGenerationTaskCallbackKey.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
CallbackKey	Yes	String	Callback authentication key for recording video generation. It is a string that can have up to 64 characters. If an empty string is passed in, the existing callback authentication key is deleted.

3. Output Parameters

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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 Setting the callback authentication key for recording video generation

Input Example

```
https://tiw.tencentcloudapi.com/?Action=SetVideoGenerationTaskCallbackKey
&SdkAppId=1400000001
&CallbackKey=6vg9G7Fd
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "eac6b301-a322-493a-8e36-83b295459397"
}
}
```

5. Developer Resources

SDK

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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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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Other APIs
ApplyTiwTrial

Last updated：2023-12-07 10:46:35

1. API Description

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

This API is used to apply for a Tencent Interactive Whiteboard trial (15-day by default).

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: ApplyTiwTrial.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

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

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		locating a problem.

4. Example

Example1 Applying for a Tencent Interactive Whiteboard trial

Input Example

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

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

5. Developer Resources

SDK

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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
AuthFailure	
FailedOperation.AlreadyEnabled	Service already activated.
InvalidParameter	A parameter error occurred.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.

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CreateApplication

Last updated：2023-12-07 10:46:35

1. API Description

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

This API is used to create a whiteboard application.

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: CreateApplication.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
AppName	No	String	Application name.
SKey	No	String	SKey required for creating an IM application.
TinyId	No	String	TinyId required for creating an IM application.
TagList.N	No	Array of Tag	List of tags to be bound.

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3. Output Parameters

Parameter Name	Type	Description
AppId	Integer	AppId of the customer.
AppName	String	Application name.
SdkAppId	Integer	SdkAppId of the whiteboard application.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Creating a whiteboard application

This example shows you how to create a whiteboard application.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=CreateApplication
&SdkAppId=1400000001
&AppName=ForTest
&SKey=xxxx
&TinyId=xxxx
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851",
"AppId": 1200000001,
"SdkAppId": 1400000001,
"AppName": "ForTest"
}
}
```

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
AuthFailure	
FailedOperation	Operation failed.
InvalidParameter	A parameter error occurred.
InvalidParameter.ApplicationAlreadyExists	Whiteboard application already exists.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeAPIService

Last updated：2023-12-07 10:46:35

1. API Description

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

This API is used to query the information about other cloud products by using the service role.

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: DescribeAPIService.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
Service	Yes	String	Supported services are cos:GetService and cdn:DescribeDomainsConfig.
Data	No	String	Request parameters in JSON format.

3. Output Parameters

Parameter	Type	Description

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Name		
ResponseData	String	Response data in JSON format.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying COS buckets

Input Example

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

{
"Service": "cos:GetService",
"Data": "",
}
```

Output Example

```
{
"Response": {
"RequestId": "51a33e48-a808-4fe7-8c02-4e7be5245351",
"ResponseData": "{\"Bucket\": \"test\"}"
}
}
```

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
AuthFailure	
FailedOperation	Operation failed.
InternalError	Internal error.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter error.

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DescribeApplicationInfos

Last updated：2023-12-07 10:46:34

1. API Description

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

This API is used to query the details of a whiteboard application.

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: DescribeApplicationInfos.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
ApplicationInfos	Array of ApplicationItem	Application list.

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AllOption	Integer	Specifies whether all applications are included. The value 0 indicates no and 1 indicates yes.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying whiteboard applications

This example shows you how to query whiteboard applications.

Input Example

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

Output Example

```
{
"Response": {
"ApplicationInfos": [
{
"TagList": [
{
"TagKey": "tag_key",
"TagValue": "tag_value"
}
],
"SdkAppId": "1400000001",
"AppName": "ForTest",
"CreateTime": "2019-11-10 00:00:00"
}
],
"AllOption": 1,
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

5. Developer Resources

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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
AuthFailure	
FailedOperation	Operation failed.
InvalidParameter	A parameter error occurred.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.

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DescribeApplicationUsage

Last updated：2023-12-07 10:46:34

1. API Description

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

This API is used to query the subproduct usage of Tencent Interactive Whiteboard.

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: DescribeApplicationUsage.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
BeginTime	Yes	Timestamp	Start time of the query period. The start time point is included in the query period.
EndTime	Yes	Timestamp	End time of the query period. The end time point is not included in the query period.
SubProduct	Yes	String	Subproduct name.
TimeLevel	Yes	String	Unit of time increment. - MONTHLY: month

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			- DAILY: day - MINUTELY: minute
SdkAppId	No	Integer	SdkAppId of the whiteboard application.
IsWeighted	No	Boolean	true: Returns the weighted sum of raw usage data. false: Returns the raw usage data.

3. Output Parameters

Parameter Name	Type	Description
Data	Array of DataItem	Usage data required for drawing charts.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying whiteboard usage

This example shows you how to query daily whiteboard usage.

Input Example

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

{
"TimeLevel": "DAILY",
"SubProduct": "sp_tiw_ric",
"BeginTime": "2019-10-01 00:00:00",
"SdkAppId": 1400000001,
"IsWeighted": true,
"EndTime": "2019-12-31 00:00:00"
}
```

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Output Example

```
{
"Response": {
"Data": [
{
"Details": [
{
"Value": 0.1,
"Weight": 0.1,
"TagName": "tag_name"
}
],
"Value": 23773611121,
"Time": "2019-11-10 00:00:00"
}
],
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

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

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

Error Code	Description
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
InvalidParameter.TimeFormat	Parsing failed due to an invalid time format.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.

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DescribeBoardSDKLog

Last updated：2023-12-07 10:46:34

1. API Description

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

This API is used to query the logs of a whiteboard application on a client.

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: DescribeBoardSDKLog.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	No	String	Common Params. This parameter is not required for this API.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
RoomId	Yes	String	Room ID to be used to query logs.
UserId	Yes	String	User ID to be used to query logs.
TimeRange.N	Yes	Array of Integer	Query period, which consists of two Unix timestamps in milliseconds. The first indicates the start time and the second the end time.
AggregationInterval	Yes	String	Interval for aggregating log number queries. Example values: `5m` , `1h` , `4h`

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Query	No	String	Extra query conditions.
Ascending	No	Boolean	Specifies whether to sort results in ascending order of time.
Context	No	String	Context key used for recursive extraction. Obtain this parameter in the response to the last request.

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Number of logs queried.
Sources	Array of String	Log details.
Buckets	Array of String	Number of logs queried within each time range after aggregation based on the time range.
Context	String	Context key used for recursive extraction. This parameter can be used in the next request.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the logs of a whiteboard application

Input Example

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

{
"SdkAppId": 1400000001,
"RoomId": "73394291",
"UserId": "tic_web",
```

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```
"TimeRange": [
1614519034000,
1614691834999
],
"Context": "",
"AggregationInterval": "1h",
"Query": "",
"Ascending": true
}
```

Output Example

```
{
"Response": {
"RequestId": "52214ab1-eeaa-4c9a-aa8f-6c501f7cae18",
"Total": 65,
"Context": "",
"Sources": [],
"Buckets": []
}
}
```

5. Developer Resources

SDK

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Command Line Interface

- Tencent Cloud CLI 3.0

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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
AuthFailure	
FailedOperation	Operation failed.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeIMApplications

Last updated：2023-12-07 10:46:34

1. API Description

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

This API is used to query the instant messaging (IM) applications that are available for creating a whiteboard application.

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: DescribeIMApplications.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

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.

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4. Example

Example1 Querying available IM applications

This example shows you how to query the IM applications that are available for creating a whiteboard application.

Input Example

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

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for C++

Command Line Interface

- Tencent Cloud CLI 3.0

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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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.

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DescribePostpaidUsage

Last updated：2023-12-07 10:46:33

1. API Description

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

This API is used to query the pay-as-you-go usage of a user.

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: DescribePostpaidUsage.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
BeginTime	Yes	Timestamp	Start time of the query period.
EndTime	Yes	Timestamp	End time of the query period.

3. Output Parameters

Parameter	Type	Description

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

4. Example

Example1 Querying the pay-as-you-go usage of a user

This example shows you how to query the pay-as-you-go usage of a user.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribePostpaidUsage
&BeginTime=2019-12-16 10:44:58
&EndTime=2019-12-16 10:44:58
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.TimeFormat	Parsing failed due to an invalid time format.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.

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DescribeRoomList

Last updated：2023-12-07 10:46:33

1. API Description

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

This API is used to query the rooms of a whiteboard application.

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: DescribeRoomList.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	No	String	Common Params. This parameter is not required for this API.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
TimeRange.N	Yes	Array of Integer	Query period, which consists of two Unix timestamps in milliseconds. The first indicates the start time and the second the end time.
Query	No	String	Extra query conditions.
MaxSize	No	Integer	Maximum number of data entries to be returned. Default value: 1000.

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3. Output Parameters

Parameter Name	Type	Description
RoomList	Array of RoomListItem	List of rooms of the whiteboard.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the rooms of a whiteboard application

Input Example

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

{
"SdkAppId": 1400000001,
"Query": "*",
"MaxSize": 1000,
"TimeRange": [
1614519034000,
1615190492000
]
}
```

Output Example

```
{
"Response": {
"RequestId": "7f560a64-d7fb-476b-89b9-2b90acc5c675",
"RoomList": [
{
"RoomId": "108594741",
"StartTime": 1614851243268,
"EndTime": 1614851284952,
```

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```
"UserNumber": 1
}
]
}
}
```

5. Developer Resources

SDK

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- 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
AuthFailure	
FailedOperation	Operation failed.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeUsageSummary

Last updated：2023-12-07 10:46:33

1. API Description

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

This API is used to query the summary of subproduct usage within a specified period of 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: DescribeUsageSummary.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
BeginTime	Yes	Timestamp	Start time of the query period.
EndTime	Yes	Timestamp	End time of the query period.
SubProducts.N	Yes	Array of String	Subproducts whose usage you want to query.
IsWeighted	No	Boolean	true: Returns weighted data. false: Returns raw data.

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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 Querying the summary of subproduct usage

This example shows you how to query the summary of subproduct usage.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeUsageSummary
&BeginTime=2019-12-30 11:41:58
&EndTime=2019-12-30 11:42:06
&SubProducts.0=sp_tiw_dt
&SubProducts.1=sp_tiw_st
&IsWeighted=true
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "70443084-c60f-4f8e-a4f9-acb791802298"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for Go
- Tencent Cloud SDK 3.0 for Node.js
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- 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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
InvalidParameter.TimeFormat	Parsing failed due to an invalid time format.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.

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DescribeUserList

Last updated：2023-12-07 10:46:33

1. API Description

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

This API is used to query the users of a whiteboard application.

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: DescribeUserList.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	No	String	Common Params. This parameter is not required for this API.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
RoomId	Yes	String	Room ID to be used to query users.
TimeRange.N	Yes	Array of Integer	Query period, which consists of two Unix timestamps in milliseconds. The first indicates the start time and the second the end time.
Query	No	String	Extra query conditions.
MaxSize	No	Integer	Maximum number of data entries to be returned. Default value: `1000`.

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3. Output Parameters

Parameter Name	Type	Description
UserList	Array of UserListItem	User list of the room.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the users of a whiteboard application

Input Example

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

{
"SdkAppId": 1400000001,
"RoomId": "0",
"Query": "*",
"MaxSize": 1000,
"TimeRange": [
1614519034000,
1615190492000
]
}
```

Output Example

```
{
"Response": {
"RequestId": "7f560a64-d7fb-476b-89b9-2b90acc5c675",
"UserList": [
{
"UserId": "131001012",
"StartTime": 1614519034000,
```

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```
"EndTime": 1615190492000
}
]
}
}
```

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
AuthFailure	
FailedOperation	Operation failed.
UnauthorizedOperation	Unauthorized operation.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeUserResources

Last updated：2023-12-07 10:46:33

1. API Description

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

This API is used to query user resources.

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: DescribeUserResources.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

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.

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4. Example

Example1 Querying user resources

This example shows you how to query user resources.

Input Example

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

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

5. Developer Resources

SDK

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Command Line Interface

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6. Error Code

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

Error Code	Description
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.

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DescribeUserStatus

Last updated：2023-12-07 10:46:32

1. API Description

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

This API is used to query the Tencent Interactive Whiteboard service status of a user, including the activation status and validity period.

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: DescribeUserStatus.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.

3. Output Parameters

Parameter Name	Type	Description
AppId	Integer	AppId of the customer.
IsTiwUser	Integer	Specifies whether the whiteboard service of the trial or official edition is

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		activated before. 0: The whiteboard service is not activated. 1: The whiteboard service is activated.
IsSaaSUser	Integer	Specifies whether the interactive class feature of the trial or official edition is activated before.
IsTiwOfflineRecordUser	Integer	Specifies whether the user uses the offline recording feature of the whiteboard service.
IsAuthenticated	Integer	Specifies whether the user is authenticated.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the Tencent Interactive Whiteboard service status of a user

Input Example

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

Output Example

```
{
"Response": {
"AppId": 1250000060,
"IsTiwUser": 1,
"IsSaaSUser": 1,
"IsTiwOfflineRecordUser": 1,
"IsAuthenticated": 1,
"RequestId": "9f5a59d6-2b77-41b2-a945-78084577e225"
}
}
```

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
AuthFailure	
FailedOperation.AlreadyEnabled	Service already activated.
InvalidParameter	A parameter error occurred.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.

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DescribeWhiteboardApplicationConfig

Last updated：2023-12-07 10:46:32

1. API Description

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

This API is used to query the task-related configurations of a whiteboard application, including the bucket and callback URL.

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: DescribeWhiteboardApplicationConfig.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
TaskTypes.N	Yes	Array of String	Task types to be queried. recording: Real-time recording. transcode: Document transcoding.
SdkAppIds.N	No	Array of Integer	SdkAppIds to be used to query configurations.

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3. Output Parameters

Parameter Name	Type	Description
SdkAppId	Integer	SdkAppId of the whiteboard application.
Configs	Array of WhiteboardApplicationConfig	Task-related configurations of the whiteboard application.
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the bucket configurations of a whiteboard application

Input Example

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

{
"SdkAppId": 1400000001,
"TaskTypes": [
"transcode",
"recording"
]
}
```

Output Example

```
{
"Response": {
"Configs": [
{
"BucketLocation": "ap-nanjing",
"BucketName": "example-120000001",
"BucketPrefix": "video",
"Callback": "http://www.test.com",
```

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```
"CallbackKey": "",
"ResultDomain": "example-120000001.cos.ap-nanjing.myqcloud.com",
"TaskType": "recording",
"SdkAppId": 1400127140
},
{
"BucketLocation": "ap-nanjing",
"BucketName": "example-120000001",
"BucketPrefix": "",
"Callback": "http://www.test.com/qcapi",
"CallbackKey": "abcde",
"ResultDomain": "example-120000001.cos.ap-nanjing.myqcloud.com",
"TaskType": "transcode",
"SdkAppId": 1400127140
}
],
"SdkAppId": 1400127140,
"RequestId": "9f5a59d6-2b77-41b2-a945-78084577e225"
}
}
```


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

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

Error Code	Description
AuthFailure	
FailedOperation	Operation failed.
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.InvalidTaskType	Unsupported configuration task type.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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DescribeWhiteboardBucketConfig

Last updated：2023-12-07 10:46:32

1. API Description

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

This API is used to query the bucket configurations for document transcoding and real-time recording.

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: DescribeWhiteboardBucketConfig.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
TaskType	Yes	String	Task type to be queried. recording: Real-time recording. transcode: Document transcoding.

3. Output Parameters

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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 Querying the bucket configurations of a whiteboard application

Input Example

```
https://tiw.tencentcloudapi.com/?Action=DescribeWhiteboardBucketConfig
&SdkAppId=1400000001
&TaskType=recording
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

5. Developer Resources

SDK

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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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.InvalidTaskType	Unsupported configuration task type.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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ModifyApplication

Last updated：2023-12-07 10:46:32

1. API Description

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

This API is used to modify a whiteboard application.

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: ModifyApplication.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
AppName	Yes	String	Application name.

3. Output Parameters

Parameter Name	Type	Description

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

4. Example

Example1 Modifying a whiteboard application

This example shows you how to modify a whiteboard application.

Input Example

```
https://tiw.tencentcloudapi.com/?Action=ModifyApplication
&SdkAppId=1400000001
&AppName=ForTest
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

5. Developer Resources

SDK

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- Tencent Cloud SDK 3.0 for PHP
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- Tencent Cloud SDK 3.0 for Node.js
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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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.

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ModifyAutoRenewFlag

Last updated：2023-12-07 10:46:32

1. API Description

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

This API is used to set auto-renewal for a Tencent Interactive Whiteboard monthly feature package.

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: ModifyAutoRenewFlag.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
SubProduct	Yes	String	Subproduct ID. To obtain this ID, call the `DescribeUserResources` API and find the subproduct ID of the monthly feature package with the level 1. Usually the value is `sp_tiw_package` .
ResourceId	Yes	String	Resource ID. To obtain this ID, call the `DescribeUserResources` API and find the resource ID of the monthly feature package with the level 1.
AutoRenewFlag	Yes	Integer	Renewal mode. Valid values: `0` (default mode, which is auto-

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			renewal), `1` (auto-renewal), `2` (manual renewal, which is specified by users). If no renewal is required, set it to `0`.

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 Setting auto-renewal for a Tencent Interactive Whiteboard monthly feature package

Input Example

```
https://tiw.tencentcloudapi.com/?Action=ModifyAutoRenewFlag
&SubProduct=sp_tiw_package
&ResourceId=sp_tiw_package-251006355-prepaid-1
&AutoRenewFlag=1
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

5. Developer Resources

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- Tencent Cloud SDK 3.0 for Node.js
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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
AuthFailure	
InvalidParameter	A parameter error occurred.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.

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ModifyWhiteboardApplicationConfig

Last updated：2023-12-07 10:46:31

1. API Description

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

This API is used to modify the task-related configurations of a whiteboard application, including the bucket and callback URL.

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: ModifyWhiteboardApplicationConfig.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
Configs.N	Yes	Array of WhiteboardApplicationConfig	Task-related configurations of the whiteboard application.

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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 Modifying the task-related configurations of a whiteboard application

Input Example

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

{
"Configs": [
{
"AdminUserId": "abcde",
"BucketPrefix": "doc",
"ResultDomain": "xxx",
"AdminUserSig": "abcde",
"Callback": "http://www.example.com/callback",
"BucketName": "test-120000001",
"SdkAppId": 1400000001,
"TaskType": "recording",
"BucketLocation": "ap-guangzhou",
"CallbackKey": "abcde"
}
],
"SdkAppId": 1400000001
}
```

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
```

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```
}
}
```

5. Developer Resources

SDK

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- 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
AuthFailure	
FailedOperation	Operation failed.
FailedOperation.CosBucketInvalid	Invalid COS bucket. The bucket does not exist or is not authorized.
FailedOperation.GetCredentialFail	Failed to obtain a temporary key.
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.

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InvalidParameter.CallbackAddressFormatError	The callback address format is invalid.
InvalidParameter.CdnDomainNotFound	CDN domain name not found.
InvalidParameter.InvalidTaskType	Unsupported configuration task type.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.

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ModifyWhiteboardBucketConfig

Last updated：2023-12-07 10:46:31

1. API Description

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

This API is used to modify the bucket configurations for document transcoding and real-time recording.

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: ModifyWhiteboardBucketConfig.
Version	Yes	String	Common Params. The value used for this API: 2019-09-19.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-singapore.
SdkAppId	Yes	Integer	SdkAppId of the whiteboard application.
TaskType	Yes	String	Task type to be queried. recording: Real-time recording. transcode: Document transcoding.
BucketName	Yes	String	Name of the COS bucket.
BucketLocation	Yes	String	Region of the COS bucket.

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BucketPrefix	Yes	String	Resource prefix of the bucket.
ResultDomain	Yes	String	Domain name of the URL of the bucket.

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 Modifying the bucket configurations of a whiteboard application

Input Example

```
https://tiw.tencentcloudapi.com/?Action=ModifyWhiteboardBucketConfig
&SdkAppId=1400000001
&TaskType=recording
&BucketLocation=ap-guangzhou
&BucketName=test-120000001
&BucketPrefix=doc
&ResultDomain=https://bucket.com
&<Common request parameters>
```

Output Example

```
{
"Response": {
"RequestId": "d290f1ee-6c54-4b01-90e6-d701748f0851"
}
}
```

5. Developer Resources

SDK

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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
AuthFailure	
FailedOperation.CosBucketInvalid	Invalid COS bucket. The bucket does not exist or is not authorized.
FailedOperation.GetCredentialFail	Failed to obtain a temporary key.
InvalidParameter	A parameter error occurred.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.CdnDomainNotFound	CDN domain name not found.
InvalidParameter.InvalidTaskType	Unsupported configuration task type.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the

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	current Tencent Cloud account.

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Data Types

Last updated：2023-12-07 10:46:37

ApplicationItem

Whiteboard application.

Used by actions: DescribeApplicationInfos.

Name	Type	Description
SdkAppId	Integer	SdkAppId of the whiteboard application.
AppName	String	Application name.
CreateTime	Timestamp	Creation time.
TagList	Array of Tag	Tag list.

AuthParam

Authentication parameters.

Used by actions: StartWhiteboardPush.

Name	Type	Required	Description
SdkAppId	Integer	Yes	SdkAppId of the whiteboard application.
UserId	String	Yes	User ID.
UserSig	String	Yes	Signature corresponding to the user ID.

Canvas

Mixed stream canvas parameter

Used by actions: CreateVideoGenerationTask, StartOnlineRecord.

Name	Type	Required	Description

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LayoutParams	LayoutParams	Yes	Width and height of the mixed stream canvas
BackgroundColor	String	No	Background color, which is black by default. Its format is RGB. for example, "#FF0000" for the red color.

Concat

Real-time recording video splicing parameter

Used by actions: CreateVideoGenerationTask, StartOnlineRecord.

Name	Type	Required	Description
Enabled	Boolean	Yes	Whether to enable the video splicing feature If the video splicing feature is enabled, the real-time recording service will splice multiple video clips resulting from the pause into one video.
Image	String	No	Download address of the padding image used during video splicing. If it is not specified, a pure black image is used by default.

CustomLayout

Custom mixed stream layout parameter

Used by actions: CreateVideoGenerationTask, StartOnlineRecord.

Name	Type	Required	Description
Canvas	Canvas	Yes	Mixed stream canvas parameter
InputStreamList	Array of StreamLayout	Yes	Stream layout. The layout of each stream cannot exceed the canvas area.

DataItem

Chart data, including the time, values, and details.

Used by actions: DescribeApplicationUsage.

Name	Type	Description

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Time	String	Time. The following formats are supported: yyyy-mm yyyy-mm-dd yyyy-mm-dd HH:MM:SS
Value	Integer	Values required for drawing charts.
Details	Array of Detail	Details of the values.

Detail

Detailed metric data with different tags in billable usage data.

Used by actions: DescribeApplicationUsage.

Name	Type	Description
TagName	String	Usage metric.
Weight	Float	Usage weight.
Value	Float	Usage value.

Interrupt

Number of video stream interruptions during real-time recording.

Used by actions: DescribeOnlineRecord.

Name	Type	Description
UserId	String	User ID. Note: This parameter may return null, indicating that no valid values can be obtained.
Count	Integer	Number of video stream interruptions. Note: This parameter may return null, indicating that no valid values can be obtained.

LayoutParams

Custom mixed stream layout parameter

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Used by actions: CreateVideoGenerationTask, StartOnlineRecord.

Name	Type	Required	Description
Width	Integer	Yes	Stream image width. Value range: [2,3000]
Height	Integer	Yes	Stream image height. Value range: [2,3000]
X	Integer	No	Offset of the top point in the upper-left corner of the current image to the X axis of the top point in the upper-left corner of the canvas. Default value: 0. Value range: [0,3000].
Y	Integer	No	Offset of the top point in the upper-left corner of the current image to the Y axis of the top point in the upper-left corner of the canvas. Default value: 0. Value range: [0,3000].
ZOrder	Integer	No	Z-axis position of the image. The default value is 0. The Z axis determines the overlap sequence of images. The image with the largest z-axis value is at the top layer.

MixStream

Stream mixing configuration

Used by actions: CreateVideoGenerationTask, StartOnlineRecord.

Name	Type	Required	Description
Enabled	Boolean	Yes	Whether stream mixing is enabled
DisableAudio	Boolean	No	Whether audio stream mixing is disabled
ModelId	Integer	No	ID of the embedded mixed stream layout template. Valid values: 1 and 2. For more information on the differences of both values, see the sample embedded mixed stream layout template. If the Custom field is not specified, ModelId is required.
TeacherId	String	No	ID of a teacher account This field is valid only when ModelId is specified. If you specify TeacherID for a user, the user's video stream will be displayed in the first image of the embedded template.
Custom	CustomLayout	No	Custom mixed stream layout parameter If this parameter is available, the ModelId and TeacherId fields

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			will be ignored.

OmittedDuration

Duration to be ignored in the spliced video

Used by actions: DescribeOnlineRecord, DescribeRecordSearch.

Name	Type	Description
VideoTime	Integer	Offset of the paused time in the spliced video, in milliseconds
PauseTime	Integer	Recording pause timestamp, in milliseconds
ResumeTime	Integer	Recording resumption timestamp, in milliseconds

RecordControl

It specifies the global recording parameters and the recording parameters over a specific stream. For example, you can specify the streams you want to record and whether to record low-resolution videos only.

Used by actions: CreateVideoGenerationTask, StartOnlineRecord.

Name	Type	Required	Description
Enabled	Boolean	Yes	It specifies whether to enable RecordControl. Valid values: true (yes); false (no).
DisableRecord	Boolean	No	A global parameter generally used in conjunction with `StreamControls` that specifies whether to disable recording. Valid values: true: no stream is recorded. false: all streams are recorded. Default value: false. The setting in this parameter is applied to all streams. However, if `StreamControls` is passed in, the parameters in `StreamControls` will take precedence.
DisableAudio	Boolean	No	A global parameter generally used in conjunction with `StreamControls` that specifies whether to disable audio recording over all streams. Valid values:

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			true: no audio recording of any streams. false: audio recording of all streams. Default value: false. The setting in this parameter is applied to all streams. However, if `StreamControls` is passed in, the parameters in `StreamControls` will take precedence.
PullSmallVideo	Boolean	No	A global parameter generally used in conjunction with `StreamControls` that specifies whether to record low-resolution videos only. Valid values: true: only records low-resolution videos for all streams. Please ensure that the up-streaming end pushes the low-resolution videos. Otherwise, the recorded video may be black. false: high-resolution video recording of all streams. Default value: false. The setting in this parameter is applied to all streams. However, if `StreamControls` is passed in, the parameters in `StreamControls` will take precedence.
StreamControls	Array of StreamControl	No	Parameters over specific streams, which take priority over global configurations. If it's empty, all streams are recorded according to the global configurations.

RecordTaskResult

Real-time recording result.

Used by actions: DescribeRecordSearch.

Name	Type	Description
FinishReason	String	`AUTO` : Recording automatically stops. `USER_CALL` : The API for stopping recording is called.
ExceptionCnt	Integer	Number of exceptions.
RoomId	Integer	Room ID.
GroupId	String	Group ID.
RecordStartTime	Integer	Actual recording start time.

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RecordStopTime	Integer	Recording end time.
TotalTime	Integer	Recording duration.
VideoInfos	Array of VideoInfo	List of video information.
OmittedDurations	Array of OmittedDuration	Omitted video durations.
Details	String	Details.
ErrorCode	Integer	Task execution error code.
ErrorMsg	String	Error message.

RecordTaskSearchResult

Real-time recording task query results.

Used by actions: DescribeRecordSearch.

Name	Type	Description
TaskId	String	Unique task ID.
Status	String	Status of the real-time recording task. - PAUSED: Recording paused. - PREPARED: Recording in preparation. - RECORDING: Recording in progress. - STOPPED: Recording stopped. - FINISHED: Recording finished.
RoomId	Integer	Room ID of the real-time recording task.
CreateTime	Timestamp ISO8601	Creation time of the task.
SdkAppId	Integer	SdkAppId of the whiteboard application.
Result	RecordTaskResult	Real-time recording result.

RoomListItem

Whiteboard room data returned for log queries.

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Used by actions: DescribeRoomList.

Name	Type	Required	Description
RoomId	String	Yes	Room ID.
StartTime	Integer	Yes	The first time when the room ID appeared during the queried period, which is a Unix timestamp in milliseconds.
EndTime	Integer	Yes	The last time when the room ID appeared during the queried period, which is a Unix timestamp in milliseconds.
UserNumber	Integer	Yes	Number of users in the room.

RoomUsageDataItem

Usage information of the room.

Used by actions: DescribeTIWRoomDailyUsage.

Name	Type	Description
Time	String	Start date in the format of YYYY-MM-DD.
SdkAppId	Integer	SdkAppId of the whiteboard application.
SubProduct	String	Subproduct usage information, which is consistent with the corresponding request parameters. - sp_tiw_board: The duration of use of whiteboards. - sp_tiw_ric: The duration of real-time recording.
Value	Float	Usage values. - The unit of sp_tiw_board and sp_tiw_ric is minutes.
RoomID	Integer	

SnapshotCOS

COS bucket parameters for storing whiteboard snapshots.

Used by actions: CreateSnapshotTask.

Name	Type	Required	Description

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Uin	Integer	Yes	UIN of the Tencent Cloud account.
Region	String	Yes	COS region.
Bucket	String	Yes	COS bucket name.
TargetDir	String	No	Root directory for storing whiteboard snapshots.
Domain	String	No	CDN acceleration domain name.

SnapshotResult

Result of the whiteboard snapshot task.

Used by actions: DescribeSnapshotTask.

Name	Type	Description
ErrorCode	String	Task execution error code. Note: This parameter may return null, indicating that no valid values can be obtained.
ErrorMessage	String	Task execution error message. Note: This parameter may return null, indicating that no valid values can be obtained.
Total	Integer	Number of generated snapshot images. Note: This parameter may return null, indicating that no valid values can be obtained.
Snapshots	Array of String	List of URLs of the snapshot images. Note: This parameter may return null, indicating that no valid values can be obtained.

SnapshotWhiteboard

Whiteboard parameters of the whiteboard snapshot task, such as the width and height of the whiteboard.

Used by actions: CreateSnapshotTask.

Name	Type	Required	Description
Width	Integer	No	Whiteboard width. Valid range: [0,2560]. Default value: 1280.

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Height	Integer	No	Whiteboard height. Valid range: [0,2560]. Default value: 720.
InitParams	String	No	Escaped JSON string of the whiteboard initial parameters, which is passed through to the Tencent Interactive Whiteboard SDK.

StreamControl

A group of parameters for recording over specified streams. It specifies whether to disable the audio recording and whether to record high-resolution or low-resolution videos.

Used by actions: CreateVideoGenerationTask, StartOnlineRecord.

Name	Type	Required	Description
StreamId	String	Yes	Video stream ID Description of the possible video stream ID values: 1. `tic_record_user` : the whiteboard video stream 2. `tic_substream` : the auxiliary video stream 3. Specific user ID: the video stream of the specified user The actual recording uses the prefix match of the video stream ID. The real stream becomes the specified stream once its ID prefix matches with the stream ID.
DisableRecord	Boolean	No	Whether to disable recording over the stream. true: does not record this stream. This stream will not be included in the final recording file. false: records this stream. This stream will be included in the final recording file. Default value: false
DisableAudio	Boolean	No	Whether to disable the audio recording of the stream. true: does not record the audio of the stream. In the final recording file, this stream will be soundless. false: the stream has both video and audio recording. Default value: false
PullSmallVideo	Boolean	No	Whether to only record low-resolution stream videos. true: records only low-resolution videos. In this case, please make

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			sure that the client pushes low-resolution videos upstream. Otherwise, the recorded video may be black. false: records only high-resolution videos. Default value: false

StreamLayout

Stream layout parameter

Used by actions: CreateVideoGenerationTask, StartOnlineRecord.

Name	Type	Required	Description
LayoutParams	LayoutParams	Yes	Stream layout configuration
InputStreamId	String	No	Video stream ID Description of the possible video stream ID values: 1. tic_record_user: the current picture is used to display the whiteboard video stream. 2. tic_substream: the current picture is used to display the auxiliary video stream. 3. Specific user ID: the current picture is used to display the video stream of a specific user. 4.Left empty: the current picture is vacant for new video stream.
BackgroundColor	String	No	Background color in RGB format, such as "#FF0000" for red. The default color is black.
FillMode	Integer	No	Video filling mode. 0: self-adaption mode. Scales the video proportionally to completely display it in the specified area. In this mode, there may be black bars. 1: full-screen mode. Scales the video to make it fill the entire specified area. In this mode, no black bars will appear, but the video may not be displayed fully.

Tag

Tag information.

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Used by actions: CreateApplication, DescribeApplicationInfos.

Name	Type	Required	Description
TagKey	String	Yes	Tag key.
TagValue	String	Yes	Tag value.

TimeValue

Time series returned for the queried metric.

Used by actions: DescribeQualityMetrics.

Name	Type	Description
Time	Integer	Unix timestamp in seconds.
Value	Float	Current value of the queried metric.

TranscodeTaskResult

Transcoding task result.

Used by actions: DescribeTranscodeSearch.

Name	Type	Description
ResultUrl	String	Transcoding result URL.
Resolution	String	Target resolution.
Title	String	Title (usually the document name).
Pages	Integer	Number of transcoded pages.
ThumbnailUrl	String	URL prefix of the thumbnail. If the URL prefix is `http://example.com/g0jb42ps49vtebjshilb/` , the thumbnail URL for the first page of the dynamically transcoded PowerPoint file is `http://example.com/g0jb42ps49vtebjshilb/1.jpg` , and so on. If the document transcoding request carries the ThumbnailResolution

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		parameter and the transcoding type is dynamic transcoding, this parameter is not null. In other cases, this parameter is null.
ThumbnailResolution	String	Resolution of the thumbnail generated for dynamic transcoding
CompressFileUrl	String	URL for downloading the transcoded and compressed file. If `CompressFileType` carried in the document transcoding request is null or is not a supported compression format, this parameter is null.
ErrorCode	Integer	Task execution error code.
ErrorMsg	String	Task execution error message.

TranscodeTaskSearchResult

Transcoding task query results.

Used by actions: DescribeTranscodeSearch.

Name	Type	Description
CreateTime	Timestamp ISO8601	Creation time of the task.
TaskId	String	Unique task ID.
Status	String	Current task status. - QUEUED: Queuing for transcoding. - PROCESSING: Transcoding in progress. - FINISHED: Transcoding finished.
OriginalFilename	String	Original name of the transcoded document.
SdkAppId	Integer	SdkAppId of the whiteboard application.
Result	TranscodeTaskResult	Transcoding task result.
IsStatic	Boolean	Specifies whether the transcoding is static.

UsageDataItem

Tencent Interactive Whiteboard usage information.

Used by actions: DescribeTIWDailyUsage.

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Name	Type	Description
Time	String	Start date in the format of YYYY-MM-DD.
SdkAppId	Integer	SdkAppId of the whiteboard application.
SubProduct	String	Subproduct usage information, which is consistent with the corresponding request parameters. - sp_tiw_board: The duration of use of whiteboards. - sp_tiw_dt: The number of pages dynamically transcoded. - sp_tiw_st: The number of pages statically transcoded. - sp_tiw_ric: The duration of real-time recording.
Value	Float	Usage values. - The unit of sp_tiw_dt and sp_tiw_st is pages. - The unit of sp_tiw_board and sp_tiw_ric is minutes.

UserListItem

Whiteboard user data returned for log queries.

Used by actions: DescribeUserList.

Name	Type	Required	Description
UserId	String	Yes	User ID in the room.
StartTime	Integer	Yes	The first time when the user ID appeared during the queried period, which is a Unix timestamp in milliseconds.
EndTime	Integer	Yes	The last time when the user ID appeared during the queried period, which is a Unix timestamp in milliseconds.

VideoInfo

Video information

Used by actions: DescribeOnlineRecord, DescribeRecordSearch, DescribeVideoGenerationTask.

Name	Type	Description
VideoPlayTime	Integer	Video playback start time, in milliseconds
VideoSize	Integer	Video size, in bytes

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VideoFormat	String	Video format
VideoDuration	Integer	Video playback duration, in milliseconds
VideoUrl	String	Video file URL
VideoId	String	Video file ID
VideoType	Integer	Video stream type - 0: camera video - 1: screen-sharing video - 2: whiteboard video - 3: mixed stream video - 4: audio-only (mp3)
UserId	String	ID of the user to which the camera video or screen-sharing video belongs (whiteboard video: null, mixed stream video: tic_mixstream__, auxiliary video: tic_substream_user ID)
Width	Integer	Width of the video resolution.
Height	Integer	Height of the video resolution.

Whiteboard

Real-time recording whiteboard parameter, such as the whiteboard width and height

Used by actions: CreateVideoGenerationTask, StartOnlineRecord, StartWhiteboardPush.

Name	Type	Required	Description
Width	Integer	No	Whiteboard video width in the real-time recording result. The value must be equal to or greater than 2. Default value: 1280.
Height	Integer	No	Whiteboard video height in the real-time recording result. The value must be equal to or greater than 2. Default value: 960.
InitParam	String	No	Whiteboard initialization parameter, which is passed through to the whiteboard SDK

WhiteboardApplicationConfig

Whiteboard application configuration, including the resource bucket, domain name, callback URL, and callback key.

Used by actions: DescribeWhiteboardApplicationConfig, ModifyWhiteboardApplicationConfig.

Name	Type	Required	Description

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TaskType	String	Yes	Task type. recording: Real-time recording. transcode: Document transcoding.
BucketName	String	Yes	Bucket name.
BucketLocation	String	Yes	Region of the bucket.
BucketPrefix	String	Yes	Resource prefix of the bucket.
ResultDomain	String	Yes	Destination CDN domain name.
Callback	String	Yes	Callback URL.
CallbackKey	String	Yes	Callback authentication key.
SdkAppId	Integer	No	SdkAppId of the whiteboard application.
AdminUserId	String	No	IM admin user ID.
AdminUserSig	String	No	IM admin user signature.

WhiteboardPushBackupParam

Backup-related request parameters of the whiteboard push task.

Used by actions: StartWhiteboardPush.

Name	Type	Required	Description
PushUserId	String	Yes	User ID used by the whiteboard push service for entering a room, The ID must be an unused ID in the SDK. The whiteboard push service uses the user ID to enter the room for whiteboard push. If this ID is already used in the SDK, the SDK and recording service will conflict, affecting the pushing operation.
PushUserSig	String	Yes	Signature corresponding to the PushUserId ID.

WhiteboardPushResult

Whiteboard push task result.

Used by actions: DescribeWhiteboardPushSearch.

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Name	Type	Description
FinishReason	String	`AUTO` : Pushing automatically stops. `USER_CALL` : The API for stopping pushing is called.
ExceptionCnt	Integer	Number of exceptions.
RoomId	Integer	Room ID.
GroupId	String	IM group ID.
PushStartTime	Integer	Actual push start time.
PushStopTime	Integer	Push end time.
IMSyncTime	Integer	IM timestamp corresponding to the first frame of the whiteboard push video. The timestamp is used for time synchronization between IM messages and the whiteboard push video during playback.
ErrorCode	Integer	Task execution error code.
ErrorMsg	String	Error message.

WhiteboardPushTaskSearchResult

Real-time recording task query results.

Used by actions: DescribeWhiteboardPushSearch.

Name	Type	Description
TaskId	String	Unique task ID.
Status	String	Status of the whiteboard push task. - PREPARED: Push in preparation. - PUSHING: Pushing in progress. - STOPPED: Pushing stopped.
RoomId	Integer	Room ID of the whiteboard push task.
CreateTime	Timestamp ISO8601	Creation time of the task.
SdkAppId	Integer	SdkAppId of the whiteboard application.
Result	WhiteboardPushResult	Whiteboard push result.

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PushUserId	String	User ID of the whiteboard push task.

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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 si
gnature 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	`Authorization` 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

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	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.
InternalError	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

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	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
AuthFailure	
FailedOperation.AlreadyEnabled	Service already activated.
FailedOperation.CosBucketInvalid	Invalid COS bucket. The bucket does not exist or is not authorized.
FailedOperation.FileDownloadFail	Failed to download the document. To correct this, check whether the URL in the request parameter is correct. If you are using another file storage service, check the upload bandwidth of the file storage service. The document transcoding service supports downloading with a maximum duration of 1 minute. If the download fails, the transcoding request will also fail.
FailedOperation.FileFormatError	The document format is invalid. Read-only or encrypted documents cannot be transcoded.

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FailedOperation.FileOpenFail	Failed to open the document. To correct this, check whether the document for transcoding is encrypted or encounters other format issues.
FailedOperation.FileUploadFail	Failed to upload the transcoding result. To correct this, try again later.
FailedOperation.GetCredentialFail	Failed to obtain a temporary key.
FailedOperation.Record	Failed to record. For more information, see the error description.
FailedOperation.Transcode	Failed to transcode. For more information, see the error description or contact our customer service.
FailedOperation.TranscodeServerError	The transcoding service encountered an internal error. Please try again later or contact our customer service.
FailedOperation.WhiteboardPush	Whiteboard push failed. For more information, see the error description.
InvalidParameter.ApplicationAlreadyExists	Whiteboard application already exists.
InvalidParameter.BodyParameterTypeUnmatched	The parameter type does not match.
InvalidParameter.CallbackAddressFormatError	The callback address format is invalid.
InvalidParameter.CdnDomainNotFound	CDN domain name not found.
InvalidParameter.FileFormatUnsupported	The document extension is not supported.
InvalidParameter.InvalidExtra	The specified special feature does not exist.
InvalidParameter.InvalidTaskType	Unsupported configuration task type.
InvalidParameter.RecordParameter	The format of the real-time recording parameter is invalid.
InvalidParameter.SdkAppIdNotFound	The SdkAppId does not exist or is invalid.
InvalidParameter.TaskNotFound	The task to query does not exist.
InvalidParameter.TimeFormat	Parsing failed due to an invalid time format.
InvalidParameter.TranscodeParameter	The document transcoding parameter format is invalid.
InvalidParameter.UnmarshalJSONBodyFail	JSON parsing failed, which may be due to parameter type mismatch.
InvalidParameter.UrlFormatError	The document download URL format is invalid. To correct

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	this, check the URL in the request parameter.
LimitExceeded.TaskConcurrency	The number of concurrent transcoding or recording tasks exceeds the limit. For more information, see the error description or try again later.
LimitExceeded.TranscodePagesLimitation	The number of pages exceeds the limit. Transcoding a file with more than 500 pages is currently unsupported. If you do need this feature, contact our customer service.
ResourceInUse.RecordUserId	The recording user account for real-time recording has started another recording task.
ResourceUnavailable.NotRegistered	TIW is not enabled.
ResourceUnavailable.ServiceExpired	The account is in arrears or the TIW service has expired.
UnauthorizedOperation.SdkAppId	The SdkAppId does not exist or does not match the current Tencent Cloud account.
UnsupportedOperation.InvalidTaskStatus	The specified operation cannot be performed for pending tasks in this state. For example, you cannot resume recording for a recording task.
UnsupportedOperation.TaskHasAlreadyStopped	The task is completed, and therefore the specified operation cannot be performed.

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