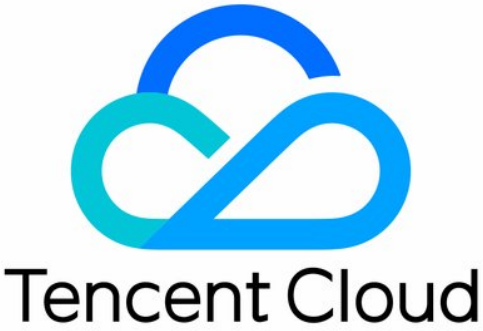
eKYC

Getting Started

Product Documentation



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Getting Started
Process Guide

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This document describes relevant operations and provides documentation links to help you better use Tencent Cloud eKYC.

Access Process

Step 1. Sign up and log in

Log in to Tencent Cloud. If you do not have an account yet, sign up as instructed in Signing Up, and complete identity verification as instructed in Enterprise Identity Verification Guide.

Step 2. Apply for the service

Log in to the eKYC console to activate the service.

Step 3. Use the service

We recommend using the API 3.0 Explorer for online call, signature verification, SDK code generation, quick API search and more, which significantly reduces the difficulty in using TencentCloud API 3.0. You can use API 3.0 Explorer to generate **server SDKs** and use them with the compiled Tencent Cloud SDKs to quickly call the eKYC service. The server SDKs are available in multiple programming languages, such as Python, Java, PHP, Go, Node.js, .NET, etc. You can download the corresponding SDK in the documentation of each service or get it from the SDK Center.

eKYC also provides a "Quick API Run" tutorial to help you debug and test the service.

Step 4. View calls

For more information on eKYC billing and payment modes, see Billing Overview.

You can log in to the eKYC console to view call details.

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Quick API Run

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Overview

This document describes how to call Tencent Cloud eKYC APIs through API 3.0 Explorer and integrate SDKs in the corresponding programming language into your project after you purchase the eKYC service. You can access eKYC APIs quickly in the following steps.

Prerequisites

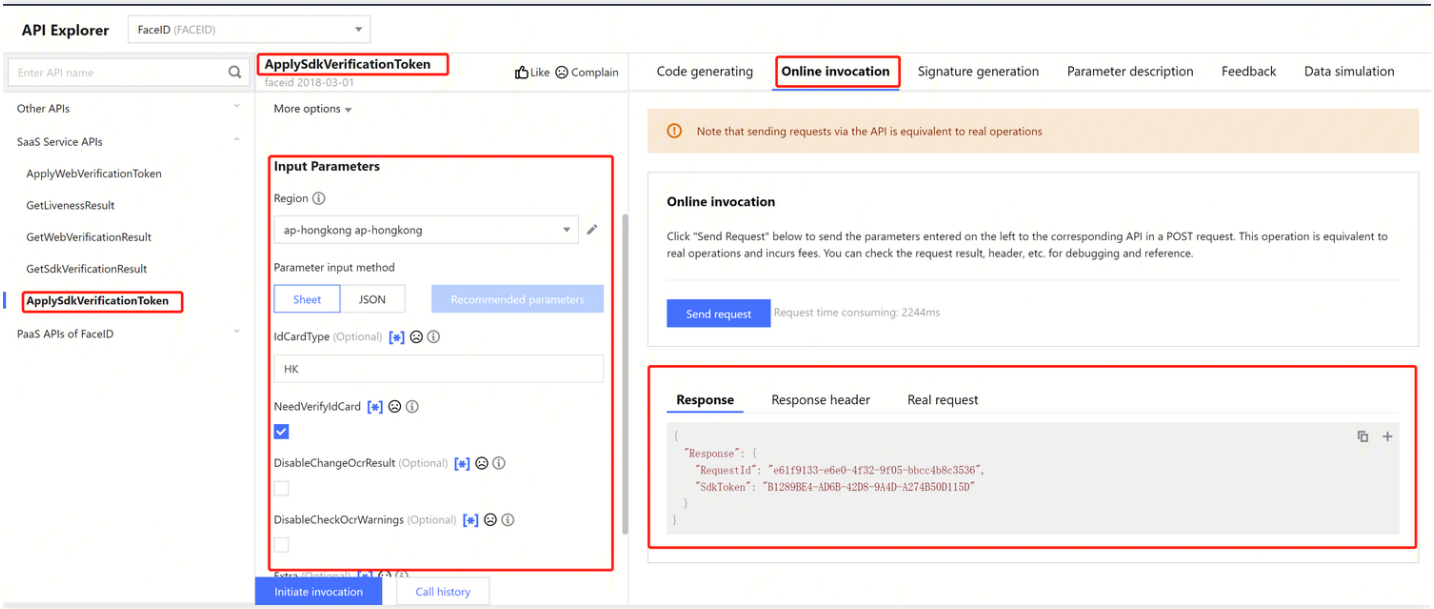
You have entered the API 3.0 Explorer page.

Directions

The following steps use the calling of the ApplySdkVerificationToken API as an example.

Step 1.

On the API 3.0 Explorer page, select `ApplySdkVerificationToken` from the left sidebar, enter required parameters, initiate the call, and get the response.



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- `Region` : This is a required parameter that specifies the region information in the domain name and determines the access point. For example, `ap-hongkong` means accessing the Hong Kong access point. APIs may support different regions. For details, see the "Region List" section in the API document of the API you are calling. For example, for ApplySdkVerificationToken, see the "Region List" section in Common Params.

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: ApplySdkVerificationToken.
Version	Yes	String	Common Params. The value used for this API: 2018-03-01.
Region	Yes	String	Common Params. For more information, please see the list of regions supported by the product. This API only supports: ap-hongkong, ap-singapore.
NeedVerifyIdCard	Yes	Boolean	Whether ID card authentication is required. If not, only document OCR will be performed. Currently, authentication is available only when the value of IdCardType is HK.

- `NeedVerifyIdCard` : This is a required parameter that specifies whether to perform identity card authentication. If this parameter is not selected, only document OCR will be performed. You can select this parameter only when the value of `IdCardType` is `HK` .

Step 2.

Select the corresponding backend language, generate the code, and integrate it into your project. Take Java as an example.

1. To integrate the code into your project, you need to import the SDK dependencies (see Java in the top right corner of the figure below), get key information, and enter the `SecretId` and `SecretKey` in the code for successful calling.

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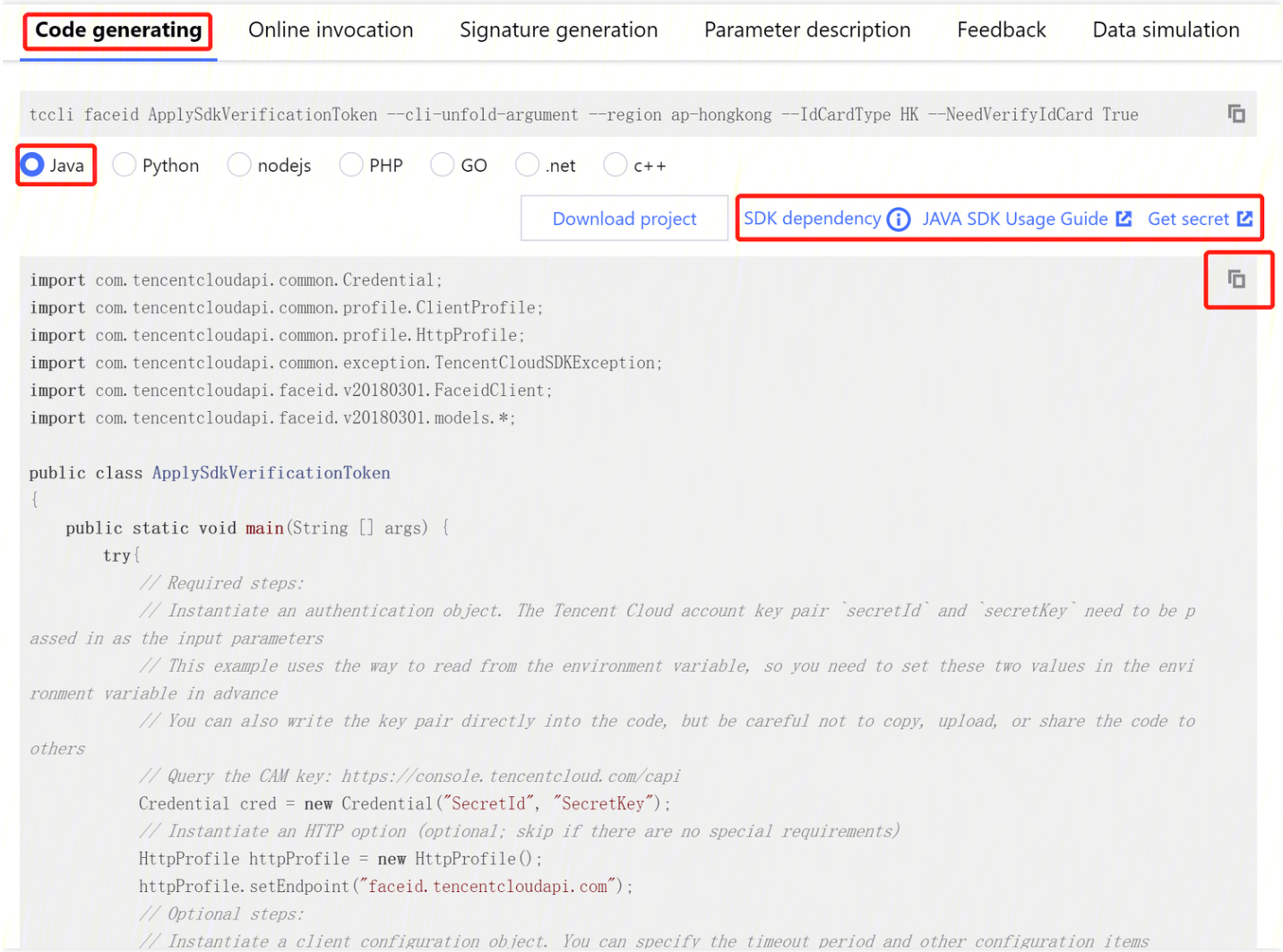
2. Part of the field information in the generated code is subject to the entered content. To adjust an input parameter, modify its value on the left and generate the code again.



Notes

- To generate a SecretId and a SecretKey, visit https://console.tencentcloud.com/cam/capi.
- To upload Base64-encoded images or videos for input parameters, remove the `` prefix and the `\n` line break.
- If the following information is returned, manually configure the signature type:

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```
[TencentCloudSDKException]message:AuthFailure.SignatureFailure-The provided cre
dentials
could not be validated because of exceeding request size limit, please use new
signature
method `TC3-HMAC-SHA256`. requestId:719970d4-5814-4dd9-9757-a3f11ecc9b20
```

Configuring signature type:

```
`clientProfile.setSignMethod("TC3-HMAC-SHA256"); // Specify the signature algor
ithm, which is HmacSHA256 by default`
```

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Connecting to TencentCloud API

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TencentCloud API 3.0 integrates SDKs for multiple programming languages, making it easier for you to call APIs. It supports nearby access, and the domain name for nearby access is `faceid.tencentcloudapi.com` . It also supports access using a domain name with a specified region, for example, the domain name for the Singapore region is `faceid.ap-singapore. tencentcloudapi.com` .

We recommend that you use the domain name for nearby access. When you call an API, the request is automatically resolved to a server in the region **nearest** to the location where the API is called. For example, if a request is made in Singapore, it will be automatically resolved to a server in Singapore, which has the same effect as specifying `faceid.ap-singaporef.tencentcloudapi.com` .

Note:

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

2. **A domain name is an API access point and does not represent the region where the product or API actually provides services. For the list of regions supported by the product, see the call method/common parameter document. For the regions supported by the API, see the input parameters part in the API document.**

You can select the language you are familiar with for coding. This section uses the Go language as an example to show how to integrate the Tencent Cloud SDK into your server.

- 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 NodeJS
- Tencent Cloud SDK 3.0 for .NET
- Tencent Cloud SDK 3.0 for C++

Environmental dependency

1. Go 1.9 or above, with the necessary environment variables such as `GOPATH` set properly
2. Activate the eKYC product by following the process guide
3. Obtain SecretId and SecretKey by following the guide to getting the secret key

Installation

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Installing through go get (recommended)

We recommend you install the SDK by using the tool that comes with the language.

```
go get -u github.com/tencentcloud/tencentcloud-sdk-go-intl-en
```

Installing through source code

Go to the GitHub page to download the latest code, and decompress it to `$GOPATH/src/github.com/tencentcloud` .

Integrating into the server

After the Tencent Cloud SDK is installed, you can use the import command to integrate the SDK into the server. The sample code is as follows:

```
package main

import (
"fmt"
cloud "github.com/tencentcloud/tencentcloud-sdk-go-intl-en/tencentcloud/common"
"github.com/tencentcloud/tencentcloud-sdk-go-intl-en/tencentcloud/common/profile"
faceid "github.com/tencentcloud/tencentcloud-sdk-go-intl-en/tencentcloud/faceid/v20180301"
)

func main() {
// Instantiate a client configuration object. You can specify the timeout period and other configuration items
prof := profile.NewClientProfile()
prof.HttpProfile.ReqTimeout = 60
// TODO replace the SecretId and SecretKey string with the API SecretId and SecretKey
credential := cloud.NewCredential("SecretId", "SecretKey")
// Instantiate the client object of the requested faceid
FaceIdClient, _ := faceid.NewClient(credential, "ap-singapore", prof)

// Instantiate the request object and provide necessary parameters
request := faceid.NewGetFaceIdTokenIntlRequest()
var SecureLevel = "4"
request.SecureLevel = &SecureLevel
// Call the Tencent Cloud API through FaceIdClient
response, _ := FaceIdClient.GetFaceIdTokenIntl(request)
// Process the Tencent Cloud API response
fmt.Println("response: ", *response.Response.SdkToken)
```

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```
}
```

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Error Codes

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PaaS error codes

Error Code	Description	Billable
Success	Detection succeeded.	Yes
FailedOperation.CompareLowSimilarity	The similarity did not reach the passing standard.	Yes
InvalidParameter	Invalid parameter.	No
InvalidParameterValue	Invalid parameter value.	No
FailedOperation.DownLoadError	Download error.	No
FailedOperation.UnKnown	Unknown error.	No
FailedOperation.IdPhotoPoorQuality	The identity photo was in a too low resolution. Please upload a new one.	No
FailedOperation.LifePhotoDetectFaces	Several faces were detected.	No
FailedOperation.LifePhotoDetectFake	Real person comparison failed.	No
FailedOperation.LifePhotoDetectNoFaces	No full face was detected.	No
FailedOperation.CompareFail	Comparison failed.	No
FailedOperation.LivessSystemError	An error occurred while calling the liveness detection engine API.	No

SaaS error codes

Error Code	Description
0	Succeeded.
1	Invalid request. Some parameters are missing.

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Error Code	Description
2	Invalid request. Parameters are incorrect.
3	Invalid service request.
4	System error.
8	Failed to store the file. Please try again later.
9	Invalid file format. Please try again later.
10	File system error. Please try again later.
11	File system timeout. Please try again later.
14	The verification was finished.
15	The token expired. Please try again.
16	Too many attempts.
17	The process wasn't finished.
202	Failed to obtain the video.
1001	An error occurred while calling the liveness detection engine API.
1002	Suspected spoofed recording.
1003	Video-based real person detection failed.
1004	Face detection failed. It was unable to extract the photo for comparison.
1005	Liveness detection failed.
1101	No voice was detected.
1102	The face was not fully exposed.
1103	Voice recognition failed.
1104	Invalid video format.
1105	Failed to pull the video. Please try again.
1106	The volume of the video is too low.
1107	The video is empty or its size is inappropriate. The video duration should be about 6s.

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Error Code	Description
1108	The video resolution is too low.
1109	The lip movement range is too small.
1201	The lighting is too dim.
1202	The lighting is too strong.
1203	The face is too close to the screen.
1204	The face is too far right from the screen.
1205	The face is too far from the screen.
1206	The face is too far left from the screen.
1207	No eye closing motions were detected.
1208	The first motion was not detected.
1209	No mouth opening motions were detected.
1210	No full face was detected.
1301	Real person detection failed.
1302	Real person detection did not reach the passing standard.
1303	The video is too short. Please capture a video longer than 2s.
1401	Reflection-based liveness detection failed.
2001	An error occurred while calling the comparison engine API.
2004	The image passed in is too large or too small.
2009	The image passed in is in a too low resolution. Please upload a new one.
2010	Face detection failed. It was unable to extract the photo for comparison.
2011	Real person comparison failed.
2012	Several faces were detected.
2013	No full face was detected.
2014	The image passed in is in a too low resolution. Please upload a new one.

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Error Code	Description
2015	Comparison failed.
2016	The similarity did not reach the passing standard.

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