

# **TI X-OCR**

## **Getting Started**

### **Product Documentation**



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# Getting Started

## Operation Guide

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### Logging in to the console

After account registration and identity verification, you can log in to the Tencent Cloud Console.

### Activating the service

Click and log in to the [OCR Console](#) to activate the service.

### Free tier and purchase

Upon service activation, you will be given 1,000 API calls each month for free. This free tier will be added into your account as a resource package and deducted first during billing. Any usage exceeding the free tier will be pay-as-you-go.

### Using OCR

OCR supports the following use methods:

- Try product features with Tencent Cloud OCR Demo  
If you are not a developer and have no coding background, use this method to try OCR services. This method is not suitable for development. Only one image can be recognized at a time.
- Make OCR API calls with [API 3.0 Explorer](#)  
If you are a beginner developer who has a basic understanding of HTTP requests and API calls, use this method to try OCR services.  
This method allows you to make API calls, verify signatures, generate SDK codes, access APIs, etc.
- Make OCR API calls with SDKs  
If you are an experienced developer, you can call OCR APIs with SDKs compiled by Tencent Cloud, which support languages such as Python, Java, PHP, Go, NodeJS, .Net, etc. You can download the SDK in the corresponding service documentation or through the SDK Center.

### Viewing the service usage

Log in to the [OCR Console](#) to view the usage of each OCR service.

# Quick Integration Guide

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## Scenarios

This guide introduces how to call OCR APIs 3.0 through API 3.0 Explorer, and integrate SDKs in corresponding languages to the project after the OCR service is activated.

## Prerequisites

Before calling an OCR API, [apply to activate the corresponding OCR service](#).

After activating the service, go to [API 3.0 Explorer](#) and make an OCR API call as follows.

## Directions

1. Select the API you want to call in the left sidebar.

The screenshot displays the Tencent Cloud console interface. At the top, there's a navigation bar with 'Tencent Cloud', 'Overview', 'Products', and 'Cloud Virtual Machine'. Below this is a search bar for services and APIs. The left sidebar lists various services, with 'Optical Character Recognition' highlighted in a red box. A dropdown menu is open, showing 'Card OCR APIs' with 'MLIDCardOCR' selected. The main content area shows the configuration for the 'MLIDCardOCR' API, including a 'Private Key' section with 'SecretId' and 'SecretKey' input fields, and an 'Input Parameters' section with fields for 'Region', 'ImageBase64', 'ImageUrl', and 'Retimage'. A 'More Options' button is visible in the bottom right of the configuration area.

2. Enter the private key and required input parameters.

**Private Key** [View Key](#)

SecretId  
Please enter SecretId

SecretKey  
Please enter SecretKey

More Options

**Input Parameters**  View Only Required Parameters

Region  
Please select the region

ImageBase64 [?](#) (Optional)  
string

ImageUrl [?](#) (Optional)  
string

RetImage [?](#) (Optional)  
boolean

- **Region** : region information in the domain name. This parameter determines the access point. For example, `ocr.ap-shanghai.tencentcloudapi.com` means Shanghai is the access point. The common parameter `Region` determines where business resources to be accessed reside. For example, `Region=ap-beijing` means resources in the Beijing region will be accessed. If no region is specified in the domain name, the nearest point will be accessed by default. But if the IP address fails to be resolved, Guangdong region will be accessed by default. You can configure different regions for domain name and common parameter, but this may cause latency. Thus, we recommend selecting the same `Region`, such as `ap-guangzhou` for South China (Guangzhou).

- String will be parsed to Json.

The screenshot shows the 'Parameter Description' tab for the MLIDCardOCR API. On the left, there are input fields for 'SecretId', 'SecretKey', 'Region', 'ImageBase64' (Optional), 'ImageUrl' (Optional), and 'RetImage' (Optional). The main content area describes the 'ImageBase64' parameter, stating it is a Base64-encoded image value with supported formats (PNG, JPG, JPEG) and a maximum size of 3 MB.

3. Select the language to generate codes.

The codes will be generated according to parameter values you entered on the left. To modify input parameters, you need to change parameter values on the left to generate codes again.

4. Integrate SDKs to the project.

See SDK Usage Guide on the top right to integrate SDKs to the project and call APIs with codes generated in **Step 3**.

The screenshot shows the 'Code Generating' tab for the MLIDCardOCR API. The left sidebar is identical to the previous screenshot. The main content area displays the generated Java code, which includes imports for the Tencent Cloud SDK and a public class MLIDCardOCR with a main method for calling the API.



## Demo (recommended)

```
const tencentcloud = require(".././../././tencentcloud-sdk-nodejs");

const OcrClient = tencentcloud.ocr.v20181119.Client;
const models = tencentcloud.ocr.v20181119.Models;

const Credential = tencentcloud.common.Credential;
const ClientProfile = tencentcloud.common.ClientProfile;
const HttpProfile = tencentcloud.common.HttpProfile;

Credential cred = new Credential("secretId", "secretKey");
let httpProfile = new HttpProfile();
let clientProfile = new ClientProfile();
/*
We recommend using V3 authentication, which is required if the request size exceeds 1 MB. Except
for Node.js, SDKs in all other languages support V3.
clientProfile.signMethod = "TC3-HMAC-SHA256";
*/
clientProfile.httpProfile = httpProfile;
let client = new OcrClient(cred, "ap-guangzhou", clientProfile);

let req = new models.IDCardOCRRequest();

req.ImageUrl = "[https://test.jpg](https://test.jpg/)";
req.CardSide = "FRONT";
let config = {"CropPortrait":true};
req.Config = JSON.stringify(config)

client.IDCardOCR(req, function(errMsg, response) {

if (errMsg) {
console.log(error);
return;
}

console.log(response.toJsonString());

});
```

## Notes

- When you call APIs with SDKs, take note of the `Region` field for common parameters. We recommend using “ap-guangzhou” for both the domain name and `Region`.
- SecretId/SecretKey generation: [Access Key -> API Key Management](#). Currently, only the root account can call OCR APIs. Sub-account will be supported soon.
- For Base64-encoded image or video, remove the `data:image/jpg;base64,` prefix and the line break `\n`.
- If the following request result appears, configure the signature type manually:

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

Configure the signature type:

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

If the API request size exceeds 1 MB, V3 authentication (TC3-HMAC-SHA256) is required. Except for Node.js, SDKs in all other languages support V3.

- API 3.0 SDK supports Node, Python, Java, PHP, Go and .Net. To call APIs with SDKs in other languages such as C++, you need to complete V3 authentication. We recommend using the string signature generation tool in [API 3.0 Explorer](#) for verification.

Code Generating
Online Call
Signature generation
Parameter Description
Feedback

**Signature generation**

For the API 3.0 signature, please click the "Generate Signature" button below. The system will take the POST request m  
he signing process step by step. Finally, you will be provided with a real URL that can be requested by POST.View signature document [🔗](#) (When the para  
meter changes, you need to click the button to regenerate the signature process data)

Generate signature

Select the signature version:

✓ API 3.0 Signature V3

✗ API 3.0 Signature V1

✗ API 2.0 Signature