

International Partners

API Documentation

Product Documentation



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Last updated : 2024-08-14 17:29:18

Release 11

Release time: 2024-08-14 17:29:14

Release updates:

Improvement to existing documentation.

New APIs:

- [AllocateCreditPool](#)

Release 10

Release time: 2024-05-15 14:08:24

Release updates:

Improvement to existing documentation.

New APIs:

- [ModifyClientRemark](#)

Release 9

Release time: 2024-04-25 10:05:22

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeBillDownloadUrl](#)
- [DescribeBillSummary](#)

New data structures:

- [BusinessInfo](#)
- [SummaryDetails](#)

Release 8

Release time: 2024-02-18 11:09:43

Release updates:

Improvement to existing documentation.

New data structures:

- [TagInfo](#)

Modified data structures:

- [CustomerBillDetailData](#)
 - New members:Tags

Release 7

Release time: 2023-12-01 10:24:11

Release updates:

Improvement to existing documentation.

Modified APIs:

- [QueryPartnerCredit](#)
 - New output parameters:CustomerTotalCredit, CustomerRemainingCredit

Modified data structures:

- [BillDetailData](#)
 - New members:Id
 - **Modified members:** PayerAccountId, OwnerAccountId, OperatorAccountId, ProductName, BillingMode, ProjectName, Region, AvailabilityZone, InstanceId, InstanceName, SubProductName, TransactionType, TransactionId, TransactionTime, UsageStartTime, UsageEndTime, ComponentType, ComponentName, ComponentListPrice, ComponentPriceMeasurementUnit, ComponentUsage, ComponentUsageUnit,

UsageDuration, DurationUnit, OriginalCost, DiscountRate, Currency, TotalAmountAfterDiscount, VoucherDeduction, TotalCost

- [CustomerBillDetailData](#)
 - New members:Id
- [QueryCreditAllocationHistoryData](#)
 - New members:ClientCreditAfter

Release 6

Release time: 2023-07-25 17:15:02

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeBillDetail](#)

New data structures:

- [CustomerBillDetailData](#)

Release 5

Release time: 2023-07-14 15:55:18

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeCustomerInfo](#)
- [DescribeCustomerUin](#)
- [QueryAccountVerificationStatus](#)
- [QueryCreditQuota](#)

New data structures:

- [DescribeCustomerInfoData](#)
- [DescribeCustomerUinData](#)

Release 4

Release time: 2023-04-25 15:04:23

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeBillSummaryByPayMode](#)
- [DescribeBillSummaryByProduct](#)
- [DescribeBillSummaryByRegion](#)

New data structures:

- [ActionSummaryOverviewItem](#)
- [BusinessSummaryOverviewItem](#)
- [PayModeSummaryOverviewItem](#)
- [RegionSummaryOverviewItem](#)

Release 3

Release time: 2023-03-06 17:28:27

Release updates:

Improvement to existing documentation.

New APIs:

- [DescribeCustomerBillDetail](#)
- [DescribeCustomerBillSummary](#)

New data structures:

- [BillDetailData](#)

Release 2

Release time: 2023-01-06 11:11:30

Release updates:

Improvement to existing documentation.

New APIs:

- [QueryVoucherAmountByUin](#)
- [QueryVoucherListByUin](#)
- [QueryVoucherPool](#)

New data structures:

- [QueryVoucherAmountByUinItem](#)
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Release 1

Release time: 2022-11-15 11:48:53

Release updates:

Improvement to existing documentation.

New APIs:

- [AllocateCustomerCredit](#)
- [CreateAccount](#)
- [GetCountryCodes](#)
- [QueryCreditAllocationHistory](#)
- [QueryCreditByUinList](#)
- [QueryCustomersCredit](#)
- [QueryDirectCustomersCredit](#)
- [QueryPartnerCredit](#)

New data structures:

- [CountryCodeItem](#)
- [QueryCreditAllocationHistoryData](#)
- [QueryCustomersCreditData](#)
- [QueryDirectCustomersCreditData](#)

Introduction

Last updated : 2024-04-25 10:05:27

International Partners provides a channel management platform for partners to deal with the international resale business. On this platform, resellers can manage purchase orders and bills for customers and request discounts for them in the resale process.

API Category

Last updated : 2024-08-14 17:29:18

Customer Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
QueryVoucherAmountByUin	Queries the voucher quota based on the customer UIN	5
QueryVoucherListByUin	Queries the voucher list based on the customer UIN	5
DescribeCustomerUin	Queries the list of customer UINs	20
GetCountryCodes	This API is used to obtain country/region codes.	5
QueryVoucherPool	Queries the voucher quota pool	5
CreateAccount	Creates a customer account	5
DescribeCustomerInfo	Queries the customer information	20
QueryAccountVerificationStatus	Queries the account verification status	20

Credit Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
QueryCreditByUinList	Queries credit by UIN list	5
AllocateCreditPool	Allocates credit pools to second-level resellers	5
AllocateCustomerCredit	Allocates credit to customers by a partner	5
QueryCreditAllocationHistory	Queries credit allocation records	5

QueryCustomersCredit	Queries the credits of customers	5
QueryDirectCustomersCredit	Queries the credits of direct customers	5
QueryPartnerCredit	Queries a partner's credit	5
QueryCreditQuota	Queries customer credits	200

Agent-related interfaces

API Name	Feature	Frequency Limit (maximum requests per second)
ModifyClientRemark	Modifies customer remarks	5

Bill Management APIs

API Name	Feature	Frequency Limit (maximum requests per second)
DescribeBillSummary	External API for the L1 billing of the customer billing center	20
DescribeBillDownloadUrl	Downloads billing file links by customers	20
DescribeCustomerBillDetail	Queries the customer bill details	5
DescribeCustomerBillSummary	Queries the total amount of customer bills	5
DescribeBillDetail	Queries the bill details	5
DescribeBillSummaryByPayMode	Obtains the total amount of customer bills by payment mode	5
DescribeBillSummaryByProduct	Obtains the total amount of customer bills by product	5
DescribeBillSummaryByRegion	Obtains the total amount of customer bills by region	5

Making API Requests

Request Structure

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1. Service Address

The API supports access from either a nearby region (at `intlpartnersmgt.tencentcloudapi.com`) or a specified region (at `intlpartnersmgt.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 "`intlpartnersmgt.ap-guangzhou.tencentcloudapi.com`".

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

Tencent Cloud currently supports the following regions:

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

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

2. Communications Protocol

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

3. Request Methods

Supported HTTP request methods:

- POST (recommended)
- GET

The Content-Type types supported by POST requests:

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

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

4. Character Encoding

Only UTF-8 encoding is used.

Common Params

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

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

Common parameters for Signature Algorithm v3

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

Parameter Name	Type	Required	Description
X-TC-Action	String	Yes	The name of the API for the desired operation. For the specific value, see description of common parameter <code>Action</code> in the input parameters in related API documentation. For example, the API for querying the CVM instance list is <code>DescribeInstances</code> .
X-TC-Region	String	Yes	Region parameter, which is used to identify the region to which the data you work with belongs. For values supported for an API, see the description of parameter <code>Region</code> in the input parameters in related API documentation. This parameter is not required for some APIs (which will be indicated in related 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 is sent. For example, 1529223702. Note: If the difference between the UNIX timestamp and server time is greater than 5 minutes, a signature expiration error may occur.
X-TC-Version	String	Yes	API version of the action. For the valid values, see the description of the common parameter <code>Version</code> in the API documentation. For example, the version is 2017-03-12.
Authorization	String	Yes	The HTTP authentication request header, for example: TC3-HMAC-SHA256 Credential=AKIDEXAMPLE/Date/service/tc3_request/Region 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 the UNIX timestamp in UTC time, and this value must match the value of X-TC-Timestamp (a co

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

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

Example of an HTTP GET request structure:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```
--58731222010402
```

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

```
0
```

```
--58731222010402
```

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

```
10
```

```
--58731222010402--
```

Common parameters for Signature Algorithm v1

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

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

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

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

Example of an HTTP GET request structure:

```
https://cvm.tencentcloudapi.com/?Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bb224158d66e7ae5fcadb70b2d181d02&Region=ap-guangzhou&Nonce=23823223&SecretId=AKIDEXAMPLE
```

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

Example of an HTTP POST request structure:

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

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

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

```
Action=DescribeInstances&Version=2017-03-12&SignatureMethod=HmacSHA256&Timestamp=1527672334&Signature=37ac2f4fde00b0ac9bd9eadeb459b1bbec224158d66e7ae5fcadb70b2d181d02&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
Southeast Asia (Singapore)	ap-singapore

Signature v3

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

Applying for Security Credentials

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

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

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

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

Using the Resources for Developers

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

TC3-HMAC-SHA256 Signature Algorithm

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

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

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

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

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

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

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

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

The signature calculation process is explained in detail below.

1. Concatenating the CanonicalRequest String

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

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

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

Field Name	Explanation
HTTPRequestMethod	HTTP request method (GET or POST). This example uses <code>POST</code> .
CanonicalURI	URI parameter. Slash ("/") is used for API 3.0.
CanonicalQueryString	The query string in the URL of the originating HTTP request. This is always an empty string for POST requests, and is the string after the question mark (?) for GET requests. For example: <code>Limit=10&Offset=0</code>. Note: <code>CanonicalQueryString</code> must be URL-encoded, referencing RFC3986, the UTF8 character set. We recommend using the programming language library. All special characters must be encoded and capitalized.
CanonicalHeaders	Header information for signature calculation, including at least two headers of <code>host</code> and <code>content-type</code>. Custom headers can be added to participate in the signature process to improve the uniqueness and security of the request. Concatenation rules: - Both the key and value of the header should be converted to lowercase with the leading and trailing spaces removed, so they are concatenated in the format of <code>key:value\n</code> format; - If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase). The calculation result in this example is <code>content-type:application/json; charset=utf-8\nhost:cvm.tencentcloudapi.com\n</code>. Note: <code>content-type</code> must match the actually sent content. In some programming languages, a charset value would be added even if it is not specified. In this case, the request sent is different from the one signed, and the server will return an error indicating signature verification failed.
SignedHeaders	Header information for signature calculation, indicating which headers of the request participate in the signature process (they must each individually correspond to the headers in CanonicalHeaders). <code>Content-type</code> and <code>host</code> are required headers. Concatenation rules: - Both the key and value of the header should be converted to lowercase; - If there are multiple headers, they should be sorted in ASCII ascending order by the header keys (lowercase) and separated by semicolons (;). The value in this example is <code>content-type;host</code>
HashedRequestPayload	Hash value of the request payload (i.e., the body, such as <code>{"Limit": 1, "Filter</code>

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

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

POST

/

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

host:cvm.tencentcloudapi.com

content-type;host

`99d58dfbc6745f6747f36bfca17dee5e6881dc0428a0a36f96199342bc5b4907`

2. Concatenating the String to Be Signed

The string to sign is concatenated as follows:

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

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

HashedCanonicalRequest

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

```
2815843035062fffd6f2a44ea8a34818b0dc46f024b8b3786976a3ad
```

Note:

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

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

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

3. Calculating the Signature

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

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

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

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

2. Calculate the signature with the following pseudocode:

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

4. Concatenating the Authorization

The Authorization is concatenated as follows:

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

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

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

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

The following example shows a finished authorization header:

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

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Python

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

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

service = "cvm"
host = "cvm.tencentcloudapi.com"
endpoint = "https://" + host
region = "ap-guangzhou"
action = "DescribeInstances"
version = "2017-03-12"
algorithm = "TC3-HMAC-SHA256"
#timestamp = int(time.time())
timestamp = 1551113065
date = datetime.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" +
```

```

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

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

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

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

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

```

Golang

```
package main

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

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

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

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

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

```
canonicalQueryString,
canonicalHeaders,
signedHeaders,
hashedRequestPayload)
fmt.Println(canonicalRequest)

// step 2: build string to sign
date := time.Unix(timestamp, 0).UTC().Format("2006-01-02")
credentialScope := fmt.Sprintf("%s/%s/tc3_request", date, service)
hashedCanonicalRequest := sha256hex(canonicalRequest)
string2sign := fmt.Sprintf("%s\n%d\n%s\n%s",
algorithm,
timestamp,
credentialScope,
hashedCanonicalRequest)
fmt.Println(string2sign)

// step 3: sign string
secretDate := hmacsha256(date, "TC3"+secretKey)
secretService := hmacsha256(service, secretDate)
secretSigning := hmacsha256("tc3_request", secretService)
signature := hex.EncodeToString([]byte(hmacsha256(string2sign, secretSigning)))
fmt.Println(signature)

// step 4: build authorization
authorization := fmt.Sprintf("%s Credential=%s/%s, SignedHeaders=%s, Signature=%s",
algorithm,
secretId,
credentialScope,
signedHeaders,
signature)
fmt.Println(authorization)

curl := fmt.Sprintf(`curl -X POST https://%s\
-H "Authorization: %s"\
-H "Content-Type: application/json; charset=utf-8"\
-H "Host: %s" -H "X-TC-Action: %s"\
-H "X-TC-Timestamp: %d"\
-H "X-TC-Version: %s"\
-H "X-TC-Region: %s"\
-d '%s'`, host, authorization, host, action, timestamp, version, region, payload)
fmt.Println(curl)
}
```

PHP

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

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

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

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

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

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

Ruby

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

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

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

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

```

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

puts canonical_request

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

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

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

puts 'curl -X POST ' + endpoint \

```

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

DotNet

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

NodeJS

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

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

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

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

function main() {

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

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

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

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

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

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

```

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

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

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

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

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

```

C++

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

using namespace std;

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

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

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

```
}  
  
string HmacSha256(const string &key, const string &input)  
{  
    unsigned char hash[32];  
  
    HMAC_CTX *h;  
    #if OPENSSSL_VERSION_NUMBER < 0x10100000L  
    HMAC_CTX hmac;  
    HMAC_CTX_init(&hmac);  
    h = &hmac;  
    #else  
    h = HMAC_CTX_new();  
    #endif  
  
    HMAC_Init_ex(h, &key[0], key.length(), EVP_sha256(), NULL);  
    HMAC_Update(h, ( unsigned char* )&input[0], input.length());  
    unsigned int len = 32;  
    HMAC_Final(h, hash, &len);  
  
    #if OPENSSSL_VERSION_NUMBER < 0x10100000L  
    HMAC_CTX_cleanup(h);  
    #else  
    HMAC_CTX_free(h);  
    #endif  
  
    std::stringstream ss;  
    ss << std::setfill('0');  
    for (int i = 0; i < len; i++)  
    {  
        ss << hash[i];  
    }  
  
    return (ss.str());  
}  
  
string HexEncode(const string &input)  
{  
    static const char* 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]);  
    }  
}
```

```

return output;
}

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

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

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

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

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

```

```

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

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

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

```

Signature Failure

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

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

Signature

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

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

1. Applying for Security Credentials

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

Security credentials consist of SecretId and SecretKey:

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

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

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

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

2. Generating a Signature

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

Assume that the SecretId and SecretKey are:

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

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

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

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

2.1. Sorting Parameters

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

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

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

2.2. Concatenating a Request String

This step generates a request string.

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

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

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

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

2.3. Concatenating the Signature Original String

This step generates a signature original string.

The signature original string consists of the following parameters:

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

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

The concatenation result of the example is:

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

2.4. Generating a Signature String

This step generates a signature string.

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

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

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

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

The final signature is:

```
zmmjn35mikh6pM3V7sUEuX4wyYM=
```

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

3. Encoding a Signature String

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

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

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

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

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

4. Signature Failure

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

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

5. Signature Demo

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

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

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

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

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

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

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

Java

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

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

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

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

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

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

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

Python

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

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

import requests

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

```

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

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

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

```

Golang

```

package main

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

func main() {
    secretId := "AKIDz8krbsJ5yKBZQpn74WfkmLPx3*****"
    secretKey := "Gu5t9xGARNpq86cd98joQYCN3*****"

```

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

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

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

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

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

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

PHP

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

```
$param["Timestamp"] = 1465185768;//time();
$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,
```

```

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

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

```

DotNet

```

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

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

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

```

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

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

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

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

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

```

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

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

```

NodeJS

```

const crypto = require('crypto');

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

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

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

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

```

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

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

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

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

strParam = sort_params(params)

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

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

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


Responses

Last updated : 2024-04-25 10:05:33

Response for Successful Requests

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

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

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

Response for Failed Requests

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

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

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

Common Error Codes

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

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

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

Credit Management APIs

AllocateCreditPool

Last updated : 2024-08-14 17:29:19

1. API Description

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

This API is used to allocate credit pools to second-level resellers by distributors.

A maximum of 5 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: AllocateCreditPool.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	No	String	Common Params . This parameter is not required.
SubAgentUin	Yes	Integer	Second-level reseller UIN.
Credit	Yes	Float	Allocated amount.

3. Output Parameters

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

RemainingCredit	Float	Current total remaining quota.
TotalCredit	Float	Total allocated quota.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Allocating Credit Pools

Input Example

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

{
  "SubAgentUin": 23427433726,
  "Credit": 234.345
}
```

Output Example

```
{
  "Response": {
    "TotalCredit": 345365,
    "RemainingCredit": 3214.345,
    "RequestId": "xx"
  }
}
```

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
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

QueryPartnerCredit

Last updated : 2024-02-18 11:09:55

1. API Description

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

This API is used for a partner to query its own total credit, available credit, and used credit in USD.

A maximum of 5 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: QueryPartnerCredit.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
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
AllocatedCredit	Float	Allocated credit
TotalCredit	Float	Total credit

RemainingCredit	Float	Remaining credit
CustomerTotalCredit	Float	Allocated quota for the client
CustomerRemainingCredit	Float	Remaining quota for the client
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a partner's credit

Input Example

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

{ }
```

Output Example

```
{
  "Response": {
    "RemainingCredit": 1000.1,
    "RequestId": "2b7c676e-bb4b-449d-89e6-4866132036c7",
    "TotalCredit": 1050.1,
    "AllocatedCredit": 50
  }
}
```

5. Developer Resources

SDK

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

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

- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .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
FailedOperation	Operation failed.
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

QueryDirectCustomersCredit

Last updated : 2024-02-18 11:09:55

1. API Description

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

This API is used to query the credits of direct customers.

A maximum of 5 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: QueryDirectCustomersCredit.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
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
Data	Array of QueryDirectCustomersCreditData	Direct customer information list

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

4. Example

Example1 Querying the credits of direct customers

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "Data": [
      {
        "RemainingCredit": 0.01,
        "TotalCredit": 100.01,
        "Uin": 1
      },
      {
        "RemainingCredit": 0.01,
        "TotalCredit": 100.01,
        "Uin": 1
      }
    ],
    "RequestId": "0abe4d4f7fdb79c9829d945c2161ff9b"
  }
}
```

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
InternalServerError	Internal error.
InvalidParameterValue	Invalid parameter value.
OperationDenied	Operation denied.
RequestLimitExceeded	Too many requests.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

QueryCustomersCredit

Last updated : 2024-02-18 11:09:55

1. API Description

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

This API is used for a partner to the credits and basic information of cutomers.

A maximum of 5 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: QueryCustomersCredit.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
FilterType	No	String	Search condition type. You can only search by customer ID, name, remarks, or email.
Filter	No	String	Search condition
Page	No	Integer	A pagination parameter that specifies the current page number, with a value starting from 1.
PageSize	No	Integer	A pagination parameter that specifies the number of entries per page.
Order	No	String	A sort parameter that specifies the sort order. Valid values: <code>desc</code>

(descending order), or `asc` (ascending order) based on `AssociationTime`. The value will be `desc` if left empty.

3. Output Parameters

Parameter Name	Type	Description
Data	Array of QueryCustomersCreditData	The list of queried customers Note: This field may return null, indicating that no valid values can be obtained.
Total	Integer	Number of customers
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying a the credits of customers

Input Example

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

{ }
```

Output Example

```
{
  "Response": {
    "Total": 1,
    "Data": [
      {
        "ClientUin": 1,
        "Name": "abcdefg@tencent.com",
        "Mobile": "131123456789",
```

```
"RecentExpiry": "2022-10-13 20:09:03",
"RemainingCredit": 100,
"Remark": "remark",
"Credit": 100,
"AssociationTime": "2022-10-13 20:09:03",
"IdentifyType": 1,
"Type": "new",
"Email": "abcd*****@tencent.com",
"Arrears": "-"
}
],
"RequestId": "2b7c676e-bb4b-449d-89e6-4866132036c4"
}
}
```

5. Developer Resources

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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

FailedOperation	Operation failed.
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

QueryCreditByUinList

Last updated : 2024-02-18 11:09:56

1. API Description

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

This API is used to query the credit of users in the list.

A maximum of 5 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: QueryCreditByUinList.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
UinList.N	Yes	Array of Integer	List of user. Array length value: 1-50.

3. Output Parameters

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

Data	Array of QueryDirectCustomersCreditData	User information list
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the credit of users in the list

Input Example

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

{
  "UinList": [
    10000,
    100001
  ]
}
```

Output Example

```
{
  "Response": {
    "Data": [
      {
        "RemainingCredit": 0.01,
        "TotalCredit": 100.01,
        "Uin": 1
      },
      {
        "RemainingCredit": 0.01,
        "TotalCredit": 100.01,
        "Uin": 1
      }
    ],
    "RequestId": "0abe4d4f7fdb79c9829d945c2161ff9b"
  }
}
```

```
}  
}
```

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
FailedOperation.UinNotAgent	UIN is not a reseller.
InternalError	Internal error.
InvalidParameterValue	Invalid parameter value.
InvalidParameterValue.UinList	Invalid UinList. Array length value: 1-50.
OperationDenied	Operation denied.
OperationDenied.ServiceBusy	System busy. Please try again later.
RequestLimitExceeded	Too many requests.

UnauthorizedOperation.NotCustomerUin

The current user is not a customer.

QueryCreditAllocationHistory

Last updated : 2024-02-18 11:09:56

1. API Description

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

This API is used to query all the credit allocation records of a single customer.

A maximum of 5 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: QueryCreditAllocationHistory.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClientUin	Yes	Integer	Customer UIN
Page	No	Integer	Page number
PageSize	No	Integer	Number of data entries per page

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of records Note: This field may return null, indicating that no valid values can be obtained.
History	Array of QueryCreditAllocationHistoryData	List of record details Note: This field 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 customer's credit allocation records

Input Example

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

{
  "ClientUin": 1,
  "Page": 1,
  "PageSize": 1
}
```

Output Example

```
{
  "Response": {
    "Total": 1,
    "RequestId": "2b7c676e-bb4b-449d-89e6-4866132036c6",
    "History": [
      {
        "Operator": "PartnerTest Limited",
        "Credit": 0.1,
        "AllocatedTime": "2022-07-28 15:04:08",
        "AllocatedCredit": 1000.1
      }
    ]
  }
}
```

```
}  
]  
}  
}
```

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
FailedOperation	Operation failed.

AllocateCustomerCredit

Last updated : 2024-02-18 11:09:57

1. API Description

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

This API is used for a partner to set credit for a customer, such as increasing or lowering the credit and setting it to 0.

1. The credit is valid permanently and will not be zeroed regularly.
2. The customer's service will be suspended when its available credit is set to 0, so caution should be exercised with this operation.
3. To prevent the customer from making new purchases without affecting their use of previously purchased products, the partner can set their available credit to 0 after obtaining the non-stop feature privilege from the channel manager.
4. The set credit is an increment of the current available credit and cannot exceed the remaining allocable credit. Setting the credit to a negative value indicates that it will be repossessed. The available credit can be set to 0 at the minimum.

A maximum of 5 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: AllocateCustomerCredit.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.

Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AddedCredit	Yes	Float	Specific value of the credit allocated to the customer
ClientUin	Yes	Integer	Customer UIN

3. Output Parameters

Parameter Name	Type	Description
TotalCredit	Float	The updated total credit
RemainingCredit	Float	The updated available credit
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Setting a customer's credit

Input Example

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

{
  "ClientUin": 1,
  "AddedCredit": 10
}
```

Output Example

```
{
  "Response": {
    "RemainingCredit": 100,
    "RequestId": "2b7c676e-bb4b-449d-89e6-4866132036c5",
  }
}
```

```
"TotalCredit": 100
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
FailedOperation	Operation failed.
InvalidParameterValue.CreditAmountOutOfRange	The credit quota has exceeded the limit with the newly allocated quota.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

QueryCreditQuota

Last updated : 2024-02-18 11:09:56

1. API Description

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

This API is used to query customer credits.

A maximum of 200 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: QueryCreditQuota.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
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.

4. Example

Example1 Querying customer credits

This example shows you how to query customer credits.

Input Example

```
POST / HTTP/1.1Host: xxx.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: QueryCreditQuota<Common request parameters>{}
```

Output Example

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

5. Developer Resources

SDK

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

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- [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
OperationDenied.ServiceBusy	System busy. Please try again later.

Agent-related interfaces

ModifyClientRemark

Last updated : 2024-05-15 14:08:33

1. API Description

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

This API is used to modify customer remarks.

A maximum of 5 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: ModifyClientRemark.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	No	String	Common Params . This parameter is not required.
ClientUin	Yes	String	Customer UIN
Remark	Yes	String	New customer remarks

3. Output Parameters

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Parameter Name	Type	Description
ClientRemark	String	If successful, returns the new customer remarks
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Modifying customer remarks

Input Example

```
POST / HTTP/1.1
Host: intlpartnersmgmt.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: ModifyClientRemark
<Common request parameters>{
  "ClientUin": "11",
  "Remark": "11"
}
```

Output Example

```
{
  "Response": {
    "ClientRemark": "sss",
    "RequestId": "string"
  }
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError	Internal error.
InvalidParameter	Invalid parameter
InvalidParameterValue.InvalidUin	InvalidParameterValue.InvalidUin
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

Bill Management APIs

DescribeBillSummary

Last updated : 2024-04-25 10:05:34

1. API Description

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

External API for the L1 billing of the customer billing center

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: DescribeBillSummary.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	No	String	Common Params . This parameter is not required.
Month	Yes	String	Bill month in the format of "yyyy-mm".
GroupType	Yes	String	Billing dimension. Optional parameters: product, project, tag
TagKey.N	No	Array of String	Tag value list

3. Output Parameters

Parameter Name	Type	Description
SummaryDetail	Array of SummaryDetails	Detailed summary by billing dimensionNote: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Summarizing DescribeBillSummary by tag dimension

This example shows you how to view the API and tag dimension statistics in customer billing center L1 bill by customers.

Input Example

```
POST / HTTP/1.1
Host: intlpartnersmgmt.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
<Public request parameters>{
  "Month": "2023-10",
  "GroupType": "tag",
  "TagKey": [
    "abc"
  ]
}
```

Output Example

```
{
  "Response": {
    "SummaryDetail": [
      {
        "Business": [
          {
            "BusinessCodeName": "CVM Dedicated Host",
```

```
"BusinessCode": "p_cdh",
"OriginalCost": "12.11",
"VoucherPayAmount": "1.1",
"RICost": "0.1",
"TotalCost": "12.1"
},
{
"OriginalCost": "12.1",
"VoucherPayAmount": "1.1",
"RICost": "1.1",
"TotalCost": "2.2",
"GroupKey": "abc",
"GroupValue": "default"
},
{
"RequestId": "abc"
}
}
```

Example2 Summarizing DescribeBillSummary by project dimension

This example shows you how to view the API and project dimension statistics in customer billing center L1 bill by customers.

Input Example

```
POST / HTTP/1.1
Host: intlpartnersmgmt.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
< Public request parameters>{
"Month": "2023-10",
"GroupType": "project"
}
```

Output Example

```
{
"Response": {
"SummaryDetail": [
{
"Business": [
{
"BusinessCodeName": "cloud block storage",
"BusinessCode": "p_cbs",
```

```
"OriginalCost": "148.40000000",
"VoucherPayAmount": "129.70000000",
"RICost": "0.00000000",
"TotalCost": "18.70000000"
},
{
  "OriginalCost": "148.40000000",
  "VoucherPayAmount": "129.70000000",
  "RICost": "0.00000000",
  "TotalCost": "18.70000000",
  "GroupKey": "0",
  "GroupValue": "default"
},
{
  "RequestId": "abc"
}
}
```

Example3 Summarizing DescribeBillSummary by product dimension

This example shows you how to view the API and product dimension statistics in customer billing center L1 bill by customers.

Input Example

```
POST / HTTP/1.1
Host: intlpartnersmgt.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillSummary
< Public request parameters>{
  "Month": "2023-10",
  "GroupType": "product"
}
```

Output Example

```
{
  "Response": {
    "SummaryDetail": [
      {
        "Business": null,
        "OriginalCost": "148.40000000",
        "VoucherPayAmount": "129.70000000",
        "RICost": "0.00000000",
        "TotalCost": "18.70000000",
```

```
"GroupKey": "p_cbs",
"GroupValue": "cloud block storage"
},
"RequestId": "abc"
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation	Operation failed.
InternalError	Internal error.
InvalidParameter	Invalid parameter

InvalidParameterValue.InvalidDimension	The dimension data entered is incorrect.
InvalidParameterValue.InvalidMonth	Incorrect month value

DescribeBillDownloadUrl

Last updated : 2024-04-25 10:05:35

1. API Description

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

This API is used to download billing files and return billing file URLs by customers.

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: DescribeBillDownloadUrl.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	No	String	Common Params . This parameter is not required.
Month	Yes	String	Bill month in the format of "yyyy-mm"; the earliest month available for query is June, 2022. Current month's billing data may be inaccurate; please download the current month's bill after it is generated at 1:00 on the 5th of the next month.
FileType	Yes	String	Type of bill. Valid values: L2 or L3

3. Output Parameters

--	--	--

Parameter Name	Type	Description
DownloadUrl	String	File download address, valid for one hour.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 DescribeBillDownloadUrl

This example shows you how to download billing files and return billing file URLs by customers.

Input Example

```
POST / HTTP/1.1
Host: intlpartnersmgt.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: DescribeBillDownloadUrl
<Public request parameters>

{
  "Month": "2023-10",
  "FileType": "L3"
}
```

Output Example

```
{
  "Response": {
    "DownloadUrl": "https://xxxx.cos.ap-singapore.myqcloud.com/L3-bill_details.csv",
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
- [Tencent Cloud SDK 3.0 for PHP](#)
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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
FailedOperation	Operation failed.
InvalidParameter	Invalid parameter

DescribeCustomerBillDetail

Last updated : 2024-06-17 14:14:17

1. API Description

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

This API is used to query the customer bill details by resellers.

A maximum of 5 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: DescribeCustomerBillDetail.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	No	String	Common Params . This parameter is not required.
CustomerUin	Yes	Integer	Customer UIN
Month	Yes	String	The queried month in "YYYY-MM" format, such as 2023-01.
PageSize	Yes	Integer	Page parameter: Indicates the number of entries per page. Value range: [1, 200]
Page	Yes	Integer	Page parameter: Indicates the current page number. The minimum value is 1.
PayMode	No	String	Billing mode. Valid values:

			<pre>prePay</pre> (Monthly subscription) <pre>postPay</pre> (Pay-as-you-go)
ActionType	No	String	Transaction type. Valid values: <pre>prepay_purchase</pre> (Purchase) <pre>prepay_renew</pre> (Renewal) <pre>prepay_modify</pre> (Upgrade/Downgrade) <pre>prepay_return</pre> (Monthly subscription refund) <pre>postpay_deduct</pre> (Pay-as-you-go) <pre>postpay_deduct_h</pre> (Hourly settlement) <pre>postpay_deduct_d</pre> (Daily settlement) <pre>postpay_deduct_m</pre> (Monthly settlement) <pre>offline_deduct</pre> (Offline project deduction) <pre>online_deduct</pre> (Offline product deduction) <pre>recon_deduct</pre> (Adjustment - deduction) <pre>recon_increase</pre> (Adjustment - compensation) <pre>ripay_purchase</pre> (One-off RI Fee) <pre>postpay_deduct_s</pre> (Spot) <pre>ri_hour_pay</pre> (Hourly RI fee) <pre>prePurchase</pre> (New monthly subscription) <pre>preRenew</pre> (Monthly subscription renewal) <pre>preUpgrade</pre> (Upgrade/Downgrade) <pre>preDowngrade</pre> (Upgrade/Downgrade) <pre>svp_hour_pay</pre> (Hourly Savings Plan fee) <pre>recon_guarantee</pre> (Minimum spend deduction) <pre>pre_purchase</pre> (New monthly subscription) <pre>pre_renew</pre> (Monthly subscription renewal) <pre>pre_upgrade</pre> (Upgrade/Downgrade) <pre>pre_downgrade</pre> (Upgrade/Downgrade)
IsConfirmed	No	String	Payment status <pre>0</pre> : N/A <pre>1</pre> : Paid <pre>2</pre> : Unpaid

3. Output Parameters

Parameter Name	Type	Description
Total	Integer	Total number of data entries

DetailSet	Array of BillDetailData	Data details Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 DescribeCustomerBillDetail

This example shows you how to get the customer bill details through API.

Input Example

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

{
  "CustomerUin": 1,
  "Month": "2023-02",
  "PayMode": "postPay",
  "ActionType": "postpay_deduct_h",
  "IsConfirmed": "0",
  "PageSize": 10,
  "Page": 1
}
```

Output Example

```
{
  "Response": {
    "Total": 0,
    "DetailSet": [
      {
        "PayerAccountId": 1230,
        "OwnerAccountId": 132,
        "OperatorAccountId": 321,
        "ProductName": "cloud block storage",
        "BillingMode": "Pay-As-You-Go resources",
        "ProjectName": "default",

```

```
"Region": "East Chinaxa0(Shanghai)",
"AvailabilityZone": "Shanghai Zone 1",
"InstanceId": "123456",
"InstanceName": "name",
"SubProductName": "HDD cloud block storage",
"TransactionType": "Hourly settlement",
"TransactionId": "2023010112345678",
"TransactionTime": "2023-01-01 00:01:02",
"UsageStartTime": "2023-01-01 00:01:02",
"UsageEndTime": "2023-01-01 00:01:02",
"ComponentType": "volume size",
"ComponentName": "HDD cloud block storage-volume size",
"ComponentListPrice": "0.1",
"ComponentPriceMeasurementUnit": "USD/GB/Second",
"ComponentUsage": "100",
"ComponentUsageUnit": "GB",
"UsageDuration": "100",
"DurationUnit": "Second",
"OriginalCost": "10",
"DiscountRate": "1",
"Currency": "USD",
"TotalAmountAfterDiscount": "10",
"VoucherDeduction": "0",
"TotalCost": "10"
}
],
"RequestId": "asdfgh"
}
}
```

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
InvalidParameterValue.InvalidMonth	Incorrect month value
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.NotCustomerUin	The current user is not a customer.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

DescribeBillDetail

Last updated : 2024-06-17 14:14:18

1. API Description

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

This API is used to query bill details by customers.

A maximum of 5 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: DescribeBillDetail.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	No	String	Common Params . This parameter is not required.
Month	Yes	String	The queried month in the format of "YYYY-MM", such as 2023-01.
PageSize	Yes	Integer	Page parameter: Indicates the number of entries per page. Value range: [1, 200]
Page	Yes	Integer	Page parameter: Indicates the current page number. The minimum value is 1.
PayMode	No	String	Billing mode. Valid values: <code>prePay</code> (Monthly subscription), <code>postPay`</code> (Pay-As-You-Go resources).
ActionType	No	String	Transaction type. Valid values: <code>prepay_purchase</code> (Purchase),

`prepay_renew` (Renewal), `prepay_modify` (Upgrade/Downgrade), `prepay_return` (Monthly subscription refund), `postpay_deduct` (Pay-as-you-go), `postpay_deduct_h` (Hourly settlement), `postpay_deduct_d` (Daily settlement), `postpay_deduct_m` (Monthly settlement), `offline_deduct` (Offline project deduction), `online_deduct` (Offline product deduction), `recon_deduct` (Adjustment - deduction), `recon_increase` (Adjustment - compensation), `ripay_purchase` (One-off RI Fee), `postpay_deduct_s` (Spot), `ri_hour_pay` (Hourly RI fee), `prePurchase` (New monthly subscription), `preRenew` (Monthly subscription renewal), `preUpgrade` (Upgrade/Downgrade), `preDowngrade` (Upgrade/Downgrade), `svp_hour_pay` (Hourly Savings Plan fee), `recon_guarantee` (Minimum spend deduction), `pre_purchase` (New monthly subscription), `pre_renew` (Monthly subscription renewal), `pre_upgrade` (Upgrade/Downgrade), `pre_downgrade` (Upgrade/Downgrade).

3. Output Parameters

Parameter Name	Type	Description
DetailSet	Array of CustomerBillDetailData	Data details Note: This field may return null, indicating that no valid values can be obtained.
Total	Integer	Total number of data entries Note: This field may return null, indicating that no valid values can be obtained.
RequestId	String	The unique request ID, generated by the server, will be returned for every request (if the request fails to reach the server for other reasons, the request will not obtain a RequestId). RequestId is required for locating a problem.

4. Example

Example1 Querying the customer bill details

This example shows you how to query the customer bill details.

POST / HTTP/1.1

Host: intlpartnersmgt.tencentcloudapi.com

Content-Type: application/json

X-TC-Action: DescribeCustomerBillDetail

Input Example

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

{
  "Month": "2023-02",
  "PayMode": "postPay",
  "ActionType": "postpay_deduct_h",
  "PageSize": "10",
  "Page": "1"
}
```

Output Example

```
{
  "Response": {
    "Total": 0,
    "DetailSet": [
      {
        "PayerAccountId": 1230,
        "OwnerAccountId": 132,
        "OperatorAccountId": 321,
        "ProductName": "cloud block storage",
        "BillingMode": "Pay-As-You-Go resources",
        "ProjectName": "default",
        "Region": "East Chinaxa0(Shanghai)",
        "AvailabilityZone": "Shanghai Zone 1",
        "InstanceId": "123456",
        "InstanceName": "the name",
        "SubProductName": "HDD cloud block storage",
        "TransactionType": "Hourly settlement",
        "TransactionId": "2023010112345678",
        "TransactionTime": "2023-01-01 00:01:02",
        "UsageStartTime": "2023-01-01 00:01:02",
        "UsageEndTime": "2023-01-01 00:01:02",
        "ComponentType": "volume size",

```

```
"ComponentName": "HDD cloud block storage-volume size",
"ComponentListPrice": "0.1",
"ComponentPriceMeasurementUnit": "USD/GB/Second",
"ComponentUsage": "100",
"ComponentUsageUnit": "GB",
"UsageDuration": "100",
"DurationUnit": "Second",
"OriginalCost": "10",
"Currency": "USD",
"TotalCost": "10"
},
"RequestId": "asdfgh"
}
```

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
------------	-------------

InvalidParameterValue.InvalidMonth	Incorrect month value
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

DescribeCustomerBillSummary

Last updated : 2024-02-18 11:09:57

1. API Description

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

This API is used to query the total amount of customer bills.

A maximum of 5 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: DescribeCustomerBillSummary.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
CustomerUin	Yes	Integer	Customer UIN
Month	Yes	String	The queried month in “YYYY-MM” format, such as 2023-01.
PayMode	No	String	Billing mode. Valid values: <code>prePay</code> (Monthly subscription) <code>postPay</code> (Pay-as-you-go)
ActionType	No	String	Transaction type. Valid values: <code>prepay_purchase</code> (Purchase)

			<pre> prepay_renew (Renewal) prepay_modify (Upgrade/Downgrade) prepay_return (Monthly subscription refund) postpay_deduct (Pay-as-you-go) postpay_deduct_h (Hourly settlement) postpay_deduct_d (Daily settlement) postpay_deduct_m (Monthly settlement) offline_deduct (Offline project deduction) online_deduct (Offline product deduction) recon_deduct (Adjustment - deduction) recon_increase (Adjustment - compensation) ripay_purchase (One-off RI Fee) postpay_deduct_s (Spot) ri_hour_pay (Hourly RI fee) prePurchase (New monthly subscription) preRenew (Monthly subscription renewal) preUpgrade (Upgrade/Downgrade) preDowngrade (Upgrade/Downgrade) svp_hour_pay (Hourly Savings Plan fee) recon_guarantee (Minimum spend deduction) pre_purchase (New monthly subscription) pre_renew (Monthly subscription renewal) pre_upgrade (Upgrade/Downgrade) pre_downgrade (Upgrade/Downgrade) </pre>
IsConfirmed	No	String	Payment status <pre> 0 : N/A 1 : Paid 2 : Unpaid </pre>

3. Output Parameters

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

4. Example

Example1 DescribeCustomerBillSummary

This example shows you how to get the total amount of customer bills through API.

Input Example

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

{
  "CustomerUin": 1,
  "Month": "2023-02",
  "PayMode": "postPay",
  "ActionType": "postpay_deduct_h",
  "IsConfirmed": "0"
}
```

Output Example

```
{
  "Response": {
    "TotalCost": 0,
    "RequestId": "123456"
  }
}
```

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 .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
InvalidParameterValue.InvalidMonth	Incorrect month value
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

DescribeBillSummaryByRegion

Last updated : 2024-02-18 11:09:58

1. API Description

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

This API is used to obtain the total amount of customer bills by region.

A maximum of 5 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: DescribeBillSummaryByRegion.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
BillMonth	Yes	String	Bill month in the format of "yyyy-MM"
CustomerUin	Yes	Integer	Customer UIN

3. Output Parameters

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

SummaryOverview	Array of RegionSummaryOverviewItem	Region details in the customer bill data totaled by region Note: This field 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 Obtaining the total amount of customer bills by region

This example shows you how to obtain the total amount of customer bills by region.

Input Example

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

{
  "BillMonth": "2022-11",
  "CustomerUin": 123456
}
```

Output Example

```
{
  "Response": {
    "SummaryOverview": [
      {
        "RegionId": "8",
        "RegionName": "1North China (Beijing)",
        "OriginalCost": "100.00000000",
        "VoucherPayAmount": "100.00000000",
        "TotalCost": "100.00000000"
      }
    ],
    "RequestId": "asdfgh"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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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
InvalidParameterValue.InvalidMonth	Incorrect month value
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

DescribeBillSummaryByProduct

Last updated : 2024-02-18 11:09:58

1. API Description

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

This API is used to obtain the total amount of customer bills by product.

A maximum of 5 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: DescribeBillSummaryByProduct.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
BillMonth	Yes	String	Bill month in the format of "yyyy-MM"
CustomerUin	Yes	Integer	Customer UIN

3. Output Parameters

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

SummaryOverview	Array of BusinessSummaryOverviewItem	Bill details from the product dimension Note: This field 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 Obtaining the total amount of customer bills by product

This example shows you how to obtain the total amount of customer bills by product.

Input Example

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

{
  "BillMonth": "2022-11",
  "CustomerUin": 123456
}
```

Output Example

```
{
  "Response": {
    "SummaryOverview": [
      {
        "BusinessCode": "p_cbs",
        "BusinessCodeName": "cloud block storage",
        "OriginalCost": "100.00000000",
        "VoucherPayAmount": "100.00000000",
        "TotalCost": "100.00000000"
      }
    ],
    "RequestId": "asdfgh"
  }
}
```

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
InvalidParameterValue.InvalidMonth	Incorrect month value
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

DescribeBillSummaryByPayMode

Last updated : 2024-02-18 11:09:59

1. API Description

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

This API is used to obtain the total amount of customer bills by payment mode.

A maximum of 5 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: DescribeBillSummaryByPayMode.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
BillMonth	Yes	String	Bill month in the format of "yyyy-MM"
CustomerUin	Yes	Integer	Customer UIN

3. Output Parameters

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

SummaryOverview	Array of PayModeSummaryOverviewItem	Payment mode details in the customer bill data totaled by payment mode Note: This field 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 Obtaining the total amount of customer bills by payment mode

This example shows you how to obtain the total amount of customer bills by payment mode.

Input Example

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

{
  "BillMonth": "2022-11",
  "CustomerUin": 123456
}
```

Output Example

```
{
  "Response": {
    "SummaryOverview": [
      {
        "PayMode": "postPay",
        "PayModeName": "Pay-As-You-Go resources",
        "OriginalCost": "100.00000000",
        "Detail": [
          {
            "ActionType": "postpay_deduct_h",
            "ActionTypeName": "Hourly settlement",
            "OriginalCost": "100.00000000",
            "VoucherPayAmount": "100.00000000",
            "TotalCost": "100.00000000"
          }
        ]
      }
    ]
  }
}
```

```
}
],
"VoucherPayAmount": "100.00000000",
"TotalCost": "100.00000000"
}
],
"RequestId": "asdfgh"
}
}
```

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
InvalidParameterValue.InvalidMonth	Incorrect month value
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

Customer Management APIs

DescribeCustomerUin

Last updated : 2024-02-18 11:09:54

1. API Description

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

This API is used to query the list of customer UINs.

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: DescribeCustomerUin.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
Page	Yes	Integer	Page number
PageSize	Yes	Integer	Number of data entries per page

3. Output Parameters

--	--	--

Parameter Name	Type	Description
Data	Array of DescribeCustomerUinData	List of customer UINs Note: This field may return null, indicating that no valid values can be obtained.
Total	String	The number of customers
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the list of customer UINs

This example shows you how to query the list of customer UINs.

Input Example

```
POST / HTTP/1.1Host: intlpartnersmgmt.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DescribeCustomerUin<Common request parameters>{ "Page": 1, "PageSize": 10}
```

Output Example

```
{
  "Response": {
    "Data": [
      {
        "CustomerUin": "123"
      }
    ],
    "Total": "123",
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InvalidParameter.Page	Incorrect page parameter value.
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

QueryVoucherPool

Last updated : 2024-02-18 11:09:52

1. API Description

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

This API is used to query the voucher quota pool.

A maximum of 5 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: QueryVoucherPool.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	No	String	Common Params . This parameter is not required.

3. Output Parameters

Parameter Name	Type	Description
AgentName	String	Reseller name
AccountType	Integer	Reseller role type (1: Reseller; 2: Distributor; 3: Second-level reseller)
TotalQuota	Float	Total quota

RemainingQuota	Float	Remaining quota
IssuedNum	Integer	The number of issued vouchers
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the voucher quota pool

Input Example

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

{ }
```

Output Example

```
{
  "Response": {
    "TotalQuota": 0.0,
    "IssuedNum": 0,
    "RemainingQuota": 0.0,
    "RequestId": "xx",
    "AccountType": 0,
    "AgentName": "xx"
  }
}
```

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

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

GetCountryCodes

Last updated : 2024-02-18 11:09:53

1. API Description

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

This API is used to obtain country/region codes.

A maximum of 5 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: GetCountryCodes.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
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
Data	Array of CountryCodeItem	List of country/region codes

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

4. Example

Example1 Obtaining country/region codes

Input Example

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

{}
```

Output Example

```
{
  "Response": {
    "Data": [
      {
        "EnName": "Albania",
        "Name": "Albania",
        "Code": "355"
      },
      {
        "EnName": "Algeria",
        "Name": "Algeria",
        "Code": "213"
      }
    ],
    "RequestId": "a9e390a7-a1af-42cd-8178-13bd046337a7"
  }
}
```

5. Developer Resources

SDK

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

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

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

Error Code	Description
InternalError	Internal error.

CreateAccount

Last updated : 2024-02-18 11:09:54

1. API Description

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

This API is used to create Tencent Cloud customer accounts for first-level resellers/second-level resellers. After the account is created, it will be automatically bound to the partner account. Note: 1. Create a Tencent Cloud account. The entered email address and mobile phone number need to be verified by the partner for validity. 2. Customers need to add personal information when logging in for the first time. 3. This interface needs to be applied for allowlist usage. Please contact the channel manager to initiate the application process.

A maximum of 5 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: CreateAccount.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
AccountType	Yes	String	Account type of a new customer. Valid values: <code>personal</code> , <code>company</code> .
Mail	Yes	String	Registered email address, which should be valid and correct. For example, account@qq.com.
Password	Yes	String	Account password

			Length limit: 8-20 characters A password must contain numbers, letters, and symbols (!@#\$%^&*()). Space is not allowed.
ConfirmPassword	Yes	String	The confirmed password, which must be the same as that entered in the <code>Password</code> field.
PhoneNum	Yes	String	Customer mobile number, which should be valid and correct. A global mobile number within 1-32 digits is allowed, such as 18888888888.
CountryCode	Yes	String	Customer's country/region code, which can be obtained via the <code>GetCountryCodes</code> API, such as "852".
Area	Yes	String	Customer's ISO2 standard country/region code, which can be obtained via the <code>GetCountryCodes</code> API. It should correspond to the <code>CountryCode</code> field, such as <code>HK</code> .
Extended	No	String	Extension field, which is left empty by default.

3. Output Parameters

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

4. Example

Example1 Applying to create a customer account

Applying to create a customer account

Input Example

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

```
{
  "Extended": "test",
  "CountryCode": "852",
  "Area": "HK",
  "PhoneNum": "18888888888",
  "AccountType": "business",
  "Mail": "account@qq.com",
  "Password": "ABCabc123!",
  "ConfirmPassword": "ABCabc123"
}
```

Output Example

```
{
  "Response": {
    "Uin": "200000123456",
    "RequestId": "a9e390a7-a1af-42cd-8178-13bd046337a7"
  }
}
```

5. Developer Resources

SDK

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

- [Tencent Cloud SDK 3.0 for Python](#)
- [Tencent Cloud SDK 3.0 for Java](#)
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- [Tencent Cloud SDK 3.0 for .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	CAM signature/authentication error.
FailedOperation.MailsRegistered	FailedOperation.MailsRegistered
InternalError	Internal error.
InvalidParameter.AccountTypeContentIncorrect	InvalidParameter.AccountTypeContentIncorrect
InvalidParameter.AreaContentIncorrect	InvalidParameter.AreaContentIncorrect
InvalidParameter.AreaFormatIncorrect	InvalidParameter.AreaFormatIncorrect
InvalidParameter.ConfirmPasswordContentIncorrect	InvalidParameter.ConfirmPasswordContentIncorrect
InvalidParameter.CountryCodeContentIncorrect	InvalidParameter.CountryCodeContentIncorrect
InvalidParameter.CountryCodeFormatIncorrect	InvalidParameter.CountryCodeFormatIncorrect
InvalidParameter.MailFormatIncorrect	InvalidParameter.MailFormatIncorrect
InvalidParameter.PasswordContentIncorrect	InvalidParameter.PasswordContentIncorrect
InvalidParameter.PasswordFormatIncorrect	InvalidParameter.PasswordFormatIncorrect
InvalidParameter.PhoneNumFormatIncorrect	InvalidParameter.PhoneNumFormatIncorrect
InvalidParameterValue.AccountTypeEmpty	InvalidParameterValue.AccountTypeEmpty
InvalidParameterValue.AreaEmpty	InvalidParameterValue.AreaEmpty
InvalidParameterValue.CountryCodeEmpty	InvalidParameterValue.CountryCodeEmpty
InvalidParameterValue.MailEmpty	InvalidParameterValue.MailEmpty
InvalidParameterValue.PasswordEmpty	InvalidParameterValue.PasswordEmpty
InvalidParameterValue.PhoneNumEmpty	InvalidParameterValue.PhoneNumEmpty
UnauthorizedOperation	Unauthorized operation.

QueryVoucherListByUin

Last updated : 2024-02-18 11:09:52

1. API Description

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

This API is used to query the voucher list based on the customer UIN.

A maximum of 5 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: QueryVoucherListByUin.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClientUins.N	Yes	Array of Integer	Customer UIN list. Array length value: 1-20.
Status	No	String	Voucher status. If this parameter is not passed in, all status will be queried by default. Valid values: <code>Unused</code> , <code>Used</code> , <code>Expired</code> .

3. Output Parameters

Parameter Name	Type	Description
Data	Array of QueryVoucherListByUinItem	Customer voucher information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the voucher list based on the customer UIN

Input Example

```
POST / HTTP/1.1
Host: intlpartnersmgt.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: QueryVoucherListByUin
<Common Request Parameters>

{
  "ClientUins": [
    1
  ],
  "Status": "abc"
}
```

Output Example

```
{
  "Response": {
    "Data": [
      {
        "TotalCount": 0,
        "ClientUin": 0,
        "Data": [
          {
            "VoucherId": "xx",
            "TotalAmount": 0.0,
            "RemainAmount": 0.0,
            "VoucherStatus": "xx"
          }
        ]
      }
    ]
  }
}
```

```
]
}
],
"RequestId": "xx"
}
}
```

5. Developer Resources

SDK

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

Command Line Interface

- [Tencent Cloud CLI 3.0](#)

6. Error Code

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

QueryVoucherAmountByUin

Last updated : 2024-02-18 11:09:52

1. API Description

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

This API is used to query the voucher quota based on the customer UIN.

A maximum of 5 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: QueryVoucherAmountByUin.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	No	String	Common Params . This parameter is not required.
ClientUins.N	Yes	Array of Integer	Customer UIN list. Array length value: 1-20.

3. Output Parameters

Parameter Name	Type	Description

Data	Array of QueryVoucherAmountByUinItem	Customer voucher quota information
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the voucher quota based on the customer UIN

Input Example

```
POST / HTTP/1.1
Host: intlpartnersmgt.tencentcloudapi.com
Content-Type: application/json
X-TC-Action: QueryVoucherAmountByUin
<Common Request Parameters>

{
  "ClientUins": [
    1
  ]
}
```

Output Example

```
{
  "Response": {
    "Data": [
      {
        "TotalAmount": 0.0,
        "ClientUin": 0,
        "RemainAmount": 0.0
      }
    ],
    "RequestId": "xx"
  }
}
```

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

There is no error code related to the API business logic. For other error codes, please see [Common Error Codes](#).

QueryAccountVerificationStatus

Last updated : 2024-02-18 11:09:53

1. API Description

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

This API is used to query the account verification status.

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: QueryAccountVerificationStatus.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
ClientUin	Yes	Integer	Customer UIN

3. Output Parameters

Parameter Name	Type	Description

AccountStatus	Boolean	Account verification status
RequestId	String	The unique request ID, which is returned for each request. RequestId is required for locating a problem.

4. Example

Example1 Querying the account verification status

This example shows you how to query the account verification status.

Input Example

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

```
{
  "ClientUin": 800000667651
}
```

Output Example

```
{
  "Response": {
    "AccountStatus": true,
    "RequestId": "4c827def-d9b9-4c4c-aa70-18f210d8eb0b"
  }
}
```

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](#)
- [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
FailedOperation.UinInvalid	Invalid UIN
InternalServerError	Internal error.
InvalidParameter	Invalid parameter
InvalidParameterValue	Invalid parameter value.
MissingParameter	Missing parameter
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.NotCustomerUin	The current user is not a customer.
UnknownParameter	Unknown parameter

DescribeCustomerInfo

Last updated : 2024-02-18 11:09:54

1. API Description

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

This API is used to query the customer information.

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: DescribeCustomerInfo.
Version	Yes	String	Common Params . The value used for this API: 2022-09-28.
Region	Yes	String	Common Params . For more information, please see the list of regions supported by the product.
CustomerUin.N	Yes	Array of Integer	List of customer UIN. Array length value: 1-20.

3. Output Parameters

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

Data	Array of DescribeCustomerInfoData	Customer information Note: This field 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 customer information

This example shows you how to query the customer information.

Input Example

```
POST / HTTP/1.1Host: intlpartnersmgmt.tencentcloudapi.comContent-Type: application/jsonX-TC-Action: DescribeCustomerInfo<Common request parameters>{ "CustomerUin": [ 2000000000000, 2000000000001, 2000000000002 ] }
```

Output Example

```
{
  "Response": {
    "Data": [
      {
        "CustomerUin": "abc",
        "Email": "abc",
        "Phone": "abc",
        "Mark": "abc",
        "Name": "abc",
        "BindTime": "abc",
        "AccountStatus": "abc",
        "AuthStatus": "abc"
      }
    ],
    "RequestId": "abc"
  }
}
```

5. Developer Resources

SDK

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- [Tencent Cloud SDK 3.0 for Java](#)
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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
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.

Data Types

Last updated : 2024-04-25 10:05:35

ActionSummaryOverviewItem

Transaction type details in the customer bill data totaled by payment mode

Used by actions: DescribeBillSummaryByPayMode.

Name	Type	Description
ActionType	String	Transaction type code Note: This field may return null, indicating that no valid values can be obtained.
ActionTypeName	String	Transaction type name Note: This field may return null, indicating that no valid values can be obtained.
OriginalCost	String	The actual total consumption amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.
VoucherPayAmount	String	The deducted voucher amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.
TotalCost	String	Total consumption amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.

BillDetailData

Customer bill details

Used by actions: DescribeCustomerBillDetail.

Name	Type	Description
PayerAccountId	Integer	Reseller account Note: This field may return null, indicating that no valid values can be obtained.

OwnerAccountId	Integer	Customer account Note: This field may return null, indicating that no valid values can be obtained.
OperatorAccountId	Integer	Operator account Note: This field may return null, indicating that no valid values can be obtained.
ProductName	String	Product name Note: This field may return null, indicating that no valid values can be obtained.
BillingMode	String	Billing mode Monthly subscription (Monthly subscription) Pay-As-You-Go resources (Pay-as-you-go) Standard RI (Reserved instance) Note: This field may return null, indicating that no valid values can be obtained.
ProjectName	String	Project name Note: This field may return null, indicating that no valid values can be obtained.
Region	String	Resource region Note: This field may return null, indicating that no valid values can be obtained.
AvailabilityZone	String	Resource AZ Note: This field may return null, indicating that no valid values can be obtained.
InstanceId	String	Instance ID Note: This field may return null, indicating that no valid values can be obtained.
InstanceName	String	Instance name Note: This field may return null, indicating that no valid values can be obtained.
SubProductName	String	Subproduct name Note: This field may return null, indicating that no valid values can be obtained.
TransactionType	String	Settlement type Note: This field may return null, indicating that no valid values

		can be obtained.
TransactionId	String	Transaction ID Note: This field may return null, indicating that no valid values can be obtained.
TransactionTime	String	Settlement time Note: This field may return null, indicating that no valid values can be obtained.
UsageStartTime	String	Start time of resource use Note: This field may return null, indicating that no valid values can be obtained.
UsageEndTime	String	End time of resource use Note: This field may return null, indicating that no valid values can be obtained.
ComponentType	String	Component Note: This field may return null, indicating that no valid values can be obtained.
ComponentName	String	Component name Note: This field may return null, indicating that no valid values can be obtained.
ComponentListPrice	String	Component list price Note: This field may return null, indicating that no valid values can be obtained.
ComponentPriceMeasurementUnit	String	Price unit Note: This field may return null, indicating that no valid values can be obtained.
ComponentUsage	String	Component usage Note: This field may return null, indicating that no valid values can be obtained.
ComponentUsageUnit	String	Component usage unit Note: This field may return null, indicating that no valid values can be obtained.
UsageDuration	String	Resource usage duration Note: This field may return null, indicating that no valid values can be obtained.
DurationUnit	String	Duration unit

		Note: This field may return null, indicating that no valid values can be obtained.
OriginalCost	String	Original cost Original cost = component list price * component usage * usage duration Note: This field may return null, indicating that no valid values can be obtained.
DiscountRate	String	Discount, which defaults to 1, indicating there is no discount. Note: This field may return null, indicating that no valid values can be obtained.
Currency	String	Currency Note: This field may return null, indicating that no valid values can be obtained.
TotalAmountAfterDiscount	String	Discounted total Note: This field may return null, indicating that no valid values can be obtained.
VoucherDeduction	String	Voucher deduction Note: This field may return null, indicating that no valid values can be obtained.
TotalCost	String	Total cost = discounted total - voucher deduction Note: This field may return null, indicating that no valid values can be obtained.
Id	String	ID Note: The return value may be null, indicating that no valid data can be obtained.

BusinessInfo

Product information

Used by actions: DescribeBillSummary.

Name	Type	Description
BusinessCodeName	String	ProductNote: This field may return null, indicating that no valid values can be obtained.

BusinessCode	String	Product code Note: This field may return null, indicating that no valid values can be obtained.
OriginalCost	String	Original price Note: This field may return null, indicating that no valid values can be obtained.
VoucherPayAmount	String	Voucher amount Note: This field may return null, indicating that no valid values can be obtained.
RICost	String	Daily deduction Note: This field may return null, indicating that no valid values can be obtained.
TotalCost	String	Total amount Note: This field may return null, indicating that no valid values can be obtained.

BusinessSummaryOverviewItem

Product details in the customer bill data totaled by product

Used by actions: DescribeBillSummaryByProduct.

Name	Type	Description
BusinessCode	String	Product code Note: This field may return null, indicating that no valid values can be obtained.
BusinessCodeName	String	Product name Note: This field may return null, indicating that no valid values can be obtained.
OriginalCost	String	List price accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.
VoucherPayAmount	String	The deducted voucher amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.
TotalCost	String	Consumption amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be

		obtained.
--	--	-----------

CountryCodeItem

Element type of the `GetCountryCodes` API

Used by actions: `GetCountryCodes`.

Name	Type	Description
EnName	String	Country/region name in English
Name	String	Country/region name in Chinese
IOS2	String	
IOS3	String	
Code	String	International dialing code

CustomerBillDetailData

Customer bill details

Used by actions: `DescribeBillDetail`.

Name	Type	Description
PayerAccountId	Integer	Reseller account Note: This field may return null, indicating that no valid values can be obtained.
OwnerAccountId	Integer	Customer account Note: This field may return null, indicating that no valid values can be obtained.
OperatorAccountId	Integer	Operator account Note: This field may return null, indicating that no valid values can be obtained.
ProductName	String	Product name Note: This field may return null, indicating that no valid values can be obtained.

BillingMode	String	Billing mode Monthly subscription (Monthly subscription) Pay-As-You-Go resources (Pay-as-you-go) Standard RI (Reserved instance) Note: This field may return null, indicating that no valid values can be obtained.
ProjectName	String	Project name Note: This field may return null, indicating that no valid values can be obtained.
Region	String	Resource region Note: This field may return null, indicating that no valid values can be obtained.
AvailabilityZone	String	Resource AZ Note: This field may return null, indicating that no valid values can be obtained.
InstanceId	String	Instance ID Note: This field may return null, indicating that no valid values can be obtained.
InstanceName	String	Instance name Note: This field may return null, indicating that no valid values can be obtained.
SubProductName	String	Subproduct name Note: This field may return null, indicating that no valid values can be obtained.
TransactionType	String	Settlement type Note: This field may return null, indicating that no valid values can be obtained.
TransactionId	String	Transaction ID Note: This field may return null, indicating that no valid values can be obtained.
TransactionTime	String	Settlement time Note: This field may return null, indicating that no valid values can be obtained.
UsageStartTime	String	Start time of resource use

		Note: This field may return null, indicating that no valid values can be obtained.
UsageEndTime	String	End time of resource use Note: This field may return null, indicating that no valid values can be obtained.
ComponentType	String	Component Note: This field may return null, indicating that no valid values can be obtained.
ComponentName	String	Component name Note: This field may return null, indicating that no valid values can be obtained.
ComponentListPrice	String	Component list price Note: This field may return null, indicating that no valid values can be obtained.
ComponentPriceMeasurementUnit	String	Price unit Note: This field may return null, indicating that no valid values can be obtained.
ComponentUsage	String	Component usage Note: This field may return null, indicating that no valid values can be obtained.
ComponentUsageUnit	String	Component usage unit Note: This field may return null, indicating that no valid values can be obtained.
UsageDuration	String	Resource usage duration Note: This field may return null, indicating that no valid values can be obtained.
DurationUnit	String	Duration unit Note: This field may return null, indicating that no valid values can be obtained.
OriginalCost	String	Original cost Original cost = component list price * component usage * usage duration Note: This field may return null, indicating that no valid values can be obtained.
Currency	String	Currency Note: This field may return null, indicating that no valid

		values can be obtained.
TotalCost	String	Total cost = discounted total - voucher deduction Note: This field may return null, indicating that no valid values can be obtained.
Id	String	ID Note: The return value may be null, indicating that no valid data can be obtained.
Tags	Array of TagInfo	Tag information Note: This field may return null, indicating that no valid values can be obtained.

DescribeCustomerInfoData

Customer information

Used by actions: DescribeCustomerInfo.

Name	Type	Description
CustomerUin	String	Customer UIN Note: This field may return null, indicating that no valid values can be obtained.
Email	String	Email Note: This field may return null, indicating that no valid values can be obtained.
Phone	String	Mobile number Note: This field may return null, indicating that no valid values can be obtained.
Mark	String	Remarks Note: This field may return null, indicating that no valid values can be obtained.
Name	String	Displayed name Note: This field may return null, indicating that no valid values can be obtained.
BindTime	String	Binding time Note: This field may return null, indicating that no valid values can be obtained.
AccountStatus	String	Account status 0: Normal 1: Forcibly mandatory (this function is not supported yet) 2. Mandatory arrears Note: The return value may be null, indicating that no valid data can be obtained.
AuthStatus	String	Identity verification status

-1: Files not uploaded
0: Not submitted for review
1: Under review
2: Review error
3: Approved
Note: The return value may be null, indicating that no valid data can be obtained.

DescribeCustomerUinData

List of customer UINs

Used by actions: DescribeCustomerUin.

Name	Type	Description
CustomerUin	String	Customer UIN Note: This field may return null, indicating that no valid values can be obtained.

PayModeSummaryOverviewItem

Payment mode details in the customer bill data totaled by payment mode

Used by actions: DescribeBillSummaryByPayMode.

Name	Type	Description
PayMode	String	Billing mode Note: This field may return null, indicating that no valid values can be obtained.
PayModeName	String	Billing mode name Note: This field may return null, indicating that no valid values can be obtained.
OriginalCost	String	The actual total consumption amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.
Detail	Array of ActionSummaryOverviewItem	Bill details in each payment mode Note: This field may return null, indicating that no valid values can be obtained.

VoucherPayAmount	String	The deducted voucher amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.
TotalCost	String	Total consumption amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.

QueryCreditAllocationHistoryData

Returned information for querying the customer credit allocation records

Used by actions: QueryCreditAllocationHistory.

Name	Type	Description
AllocatedTime	String	Allocation time
Operator	String	Operator
Credit	Float	Allocated credit value
AllocatedCredit	Float	The allocated total credit
ClientCreditAfter	Float	Available credits after allocation Note: The return value may be null, indicating that no valid data can be obtained.

QueryCustomersCreditData

Complex type of output parameters for querying customer's credit

Used by actions: QueryCustomersCredit.

Name	Type	Description
Name	String	Name
Type	String	Type
Mobile	String	Mobile number
Email	String	Email

Arrears	String	Overdue payment flag
AssociationTime	String	Binding time
RecentExpiry	String	Expiration time
ClientUin	Integer	Customer UIN
Credit	Float	Credit allocated to a customer
RemainingCredit	Float	The remaining credit of a customer
IdentifyType	Integer	0 : Identity not verified; 1 : Individual identity verified; 2 : Enterprise identity verified.
Remark	String	Customer remarks
Force	Integer	Forced status

QueryDirectCustomersCreditData

The credit information of direct customers

Used by actions: QueryCreditByUinList, QueryDirectCustomersCredit.

Name	Type	Description
Uin	Integer	User UIN
TotalCredit	Float	Total credit
RemainingCredit	Float	Remaining credit

QueryVoucherAmountByUinItem

Customer voucher quota

Used by actions: QueryVoucherAmountByUin.

Name	Type	Description
ClientUin	Integer	Customer UIN
TotalAmount	Float	Voucher quota

RemainAmount	Float	Voucher amount
--------------	-------	----------------

QueryVoucherListByUinItem

Voucher information of a single customer

Used by actions: QueryVoucherListByUin.

Name	Type	Description
ClientUin	Integer	Customer UIN
TotalCount	Integer	The total number of vouchers
Data	Array of QueryVoucherListByUinVoucherItem	Voucher details

QueryVoucherListByUinVoucherItem

Customer voucher information

Used by actions: QueryVoucherListByUin.

Name	Type	Description
VoucherId	String	Voucher ID
VoucherStatus	String	Voucher status
TotalAmount	Float	Voucher value
RemainAmount	Float	Balance

RegionSummaryOverviewItem

Region details in the customer bill data totaled by region

Used by actions: DescribeBillSummaryByRegion.

Name	Type	Description
RegionId	String	Region ID

		Note: This field may return null, indicating that no valid values can be obtained.
RegionName	String	Region name Note: This field may return null, indicating that no valid values can be obtained.
OriginalCost	String	The actual total consumption amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.
VoucherPayAmount	String	The deducted voucher amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.
TotalCost	String	Total consumption amount accurate down to eight decimal places Note: This field may return null, indicating that no valid values can be obtained.

SummaryDetails

Detailed summary by billing dimension

Used by actions: DescribeBillSummary.

Name	Type	Description
Business	Array of BusinessInfo	Product information list Note: This field may return null, indicating that no valid values can be obtained.
OriginalCost	String	Original price Note: This field may return null, indicating that no valid values can be obtained.
VoucherPayAmount	String	Voucher amount Note: This field may return null, indicating that no valid values can be obtained.
RICost	String	Daily deduction Note: This field may return null, indicating that no valid values can be obtained.
TotalCost	String	Total amount Note: This field may return null, indicating that no valid values can be

		obtained.
GroupKey	String	Summary key by classification dimension Note: This field may return null, indicating that no valid values can be obtained.
GroupValue	String	Summary value by classification dimension Note: This field may return null, indicating that no valid values can be obtained.

TagInfo

Cost Allocation Tags

Used by actions: DescribeBillDetail.

Name	Type	Description
TagKey	String	Tag keyNote: This field may return null, indicating that no valid values can be obtained.
TagValue	String	Tag valueNote: This field may return null, indicating that no valid values can be obtained.

Error Codes

Last updated : 2024-05-15 14:08:28

Feature Description

If there is an Error field in the response, it means that the API call failed. For example:

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

Code in Error indicates the error code, and Message indicates the specific information of the error.

Error Code List

Common Error Codes

Error Code	Description
ActionOffline	This API has been deprecated.
AuthFailure.InvalidAuthorization	<code>Authorization</code> in the request header is invalid.
AuthFailure.InvalidSecretId	Invalid key (not a TencentCloud API key type).
AuthFailure.MFAFailure	MFA failed.
AuthFailure.SecretIdNotFound	Key does not exist. Check if the key has been deleted or disabled in the console, and if not, check if the key is correctly entered. Note that whitespaces should not exist before or after the key.
AuthFailure.SignatureExpire	Signature expired. Timestamp and server time cannot differ by more than five minutes. Please

	ensure your current local time matches the standard time.
AuthFailure.SignatureFailure	Invalid signature. Signature calculation error. Please ensure you've followed the signature calculation process described in the Signature API documentation.
AuthFailure.TokenFailure	Token error.
AuthFailure.UnauthorizedOperation	The request is not authorized. For more information, see the CAM documentation.
DryRunOperation	DryRun Operation. It means that the request would have succeeded, but the DryRun parameter was used.
FailedOperation	Operation failed.
InternalServerError	Internal error.
InvalidAction	The API does not exist.
InvalidParameter	Incorrect parameter.
InvalidParameterValue	Invalid parameter value.
InvalidRequest	The multipart format of the request body is incorrect.
IpInBlacklist	Your IP is in uin IP blacklist.
IpNotInWhitelist	Your IP is not in uin IP whitelist.
LimitExceeded	Quota limit exceeded.
MissingParameter	A parameter is missing.
NoSuchProduct	The product does not exist.
NoSuchVersion	The API version does not exist.
RequestLimitExceeded	The number of requests exceeds the frequency limit.
RequestLimitExceeded.GlobalRegionUinLimitExceeded	Uin exceeds the frequency limit.
RequestLimitExceeded.IPLimitExceeded	The number of ip requests exceeds the frequency limit.
RequestLimitExceeded.UinLimitExceeded	The number of uin requests exceeds the frequency

	limit.
RequestSizeLimitExceeded	The request size exceeds the upper limit.
ResourceInUse	Resource is in use.
ResourceInsufficient	Insufficient resource.
ResourceNotFound	The resource does not exist.
ResourceUnavailable	Resource is unavailable.
ResponseSizeLimitExceeded	The response size exceeds the upper limit.
ServiceUnavailable	Service is unavailable now.
UnauthorizedOperation	Unauthorized operation.
UnknownParameter	Unknown parameter.
UnsupportedOperation	Unsupported operation.
UnsupportedProtocol	HTTP(S) request protocol error; only GET and POST requests are supported.
UnsupportedRegion	API does not support the requested region.

Service Error Codes

Error Code	Description
AuthFailure	CAM signature/authentication error.
FailedOperation.MailsRegistered	FailedOperation.MailsRegistered
FailedOperation.UinInvalid	Invalid UIN
FailedOperation.UinNotAgent	UIN is not a reseller.
InvalidParameter.AccountTypeContentIncorrect	InvalidParameter.AccountTypeContentIncorrect
InvalidParameter.AreaContentIncorrect	InvalidParameter.AreaContentIncorrect
InvalidParameter.AreaFormatIncorrect	InvalidParameter.AreaFormatIncorrect
InvalidParameter.ConfirmPasswordContentIncorrect	InvalidParameter.ConfirmPasswordContentIncorrect
InvalidParameter.CountryCodeContentIncorrect	InvalidParameter.CountryCodeContentIncorrect

InvalidParameter.CountryCodeFormatIncorrect	InvalidParameter.CountryCodeFormatIncorrect
InvalidParameter.MailFormatIncorrect	InvalidParameter.MailFormatIncorrect
InvalidParameter.Page	Incorrect page parameter value.
InvalidParameter.PasswordContentIncorrect	InvalidParameter.PasswordContentIncorrect
InvalidParameter.PasswordFormatIncorrect	InvalidParameter.PasswordFormatIncorrect
InvalidParameter.PhoneNumFormatIncorrect	InvalidParameter.PhoneNumFormatIncorrect
InvalidParameterValue.AccountTypeEmpty	InvalidParameterValue.AccountTypeEmpty
InvalidParameterValue.AreaEmpty	InvalidParameterValue.AreaEmpty
InvalidParameterValue.CountryCodeEmpty	InvalidParameterValue.CountryCodeEmpty
InvalidParameterValue.CreditAmountOutOfRange	The credit quota has exceeded the limit with the newly allocated quota.
InvalidParameterValue.InvalidDimension	The dimension data entered is incorrect.
InvalidParameterValue.InvalidMonth	Incorrect month value
InvalidParameterValue.InvalidUin	InvalidParameterValue.InvalidUin
InvalidParameterValue.MailEmpty	InvalidParameterValue.MailEmpty
InvalidParameterValue.PasswordEmpty	InvalidParameterValue.PasswordEmpty
InvalidParameterValue.PhoneNumEmpty	InvalidParameterValue.PhoneNumEmpty
InvalidParameterValue.UinList	Invalid UinList. Array length value: 1-50.
OperationDenied	Operation denied.
OperationDenied.ServiceBusy	System busy. Please try again later.
UnauthorizedOperation.NotCustomerUin	The current user is not a customer.
UnauthorizedOperation.UinNoAuth	The current user doesn't have permission for the operation.