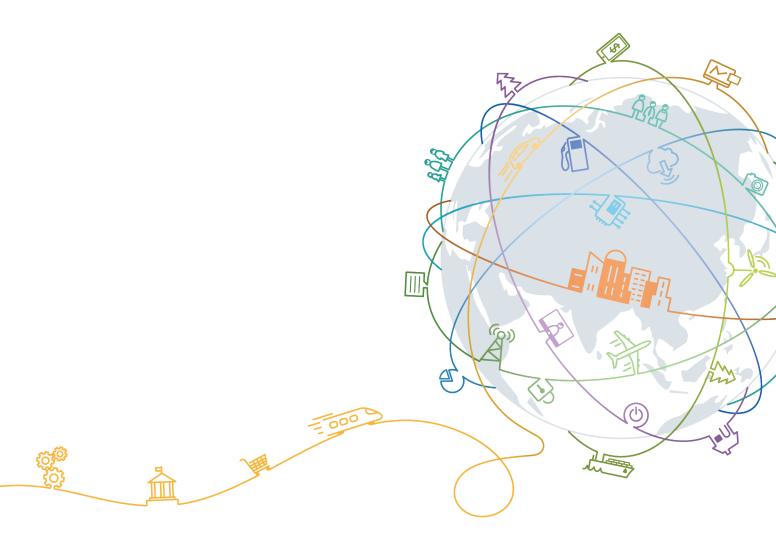
Customer Operation Capabilities

API Reference

 Issue
 1

 Date
 2023-10-09





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Change History

Description	Released On
This issue is the fourth official release.	2024-8-14
This release incorporates the following change:	
Added the Enabling the Enterprise Project Management API for customers to enable Enterprise Project Management on their own platforms.	
This issue is the third official release.	2024-05-28
This release incorporates the following changes:	
 Added the Querying Coupons API for customers to query coupon-related information. 	
 Added the Querying Resource Packages API for customers to check resource packages in self-built platforms. 	
• Added the Viewing Resource Package Usage API for customers to check resource package usage in self-built platforms.	
 Added the Querying Resource Package Usage Details API for customers to check details of resource package usage in self-built platforms. 	
This issue is the second official release.	2024-03-18
This release incorporates the following change:	
Added the API for querying the renewal price of a yearly/monthly resource . Customers can set search options to query the renewal price of yearly/monthly resources on their own platforms.	
This issue is the first official release.	2022-12-29

2 Customer Operations Capability API

Huawei Cloud provides the operation capabilities for customers to manage products, accounts, transactions, bills, and invoices on the customer platform.

Scenar io	Sub- Scenari o	API Name	Description
Manag ing produc	ng g produc product	Querying Cloud Service Types	This API is used to query cloud service types on the customer self-built platform.
ts		Querying Resource Types	This API is used to query the resource types on the customer self-built platform.
		Querying Resources by Cloud Service Type	This API is used to query the resource type code and name by associated cloud service on the self-built platform and to query the price of a pay-per-use or yearly/monthly product.
		Querying Usage Types	This API is used to query resource usage types on the customer self-built platform.
		Querying Measuremen t Units	This API is used to query the resource usage, measurement unit for the duration and amount of a yearly/monthly resource, as well as the measurement unit type on the self-built platform.
		Querying the Measuremen t Unit Number System	This API is used to query the measurement unit number system on the self-built platform.

Table 2-1 APIs and descriptions

Scenar io	Sub- Scenari o	API Name	Description
	Queryin g the price of a	Querying the price of a pay-per-use product	Customers can query the price of a pay- per-use product by criteria on the self-built platform.
	product	Querying the price of a yearly/ monthly product	Customers can use this API to query prices of yearly/monthly products for new subscriptions on their platforms.
Manag ing accoun ts	-	Querying the Account Balance	This API can be used to query the account balance for a customer.
Transa ction manag	Coupon manage ment	Querying Coupons	Customers can query information about their coupons.
ement	nent Managi ng yearly/ monthly orders	Querying orders	After a customer purchases yearly/monthly resources, it can query the orders in different statuses, such as in the pending approval, processing, canceled, completed, and pending payment statuses.
		Querying order details	Customers can view order details on the self-built platform.
		Querying Available Coupons for an Order	A customer can invoke this API to view the coupons available for an order on the self-built platform.
		Querying Available Discounts of an Order	A customer can query available discounts when paying an order on the self-built platform.
		Paying Yearly- Monthly Product Orders	A customer can invoke this API to pay yearly-monthly product orders in the pending payment status.
		Canceling orders in the pending payment status	A customer can invoke this API to cancel orders in the pending payment status.

Scenar io	Sub- Scenari o	API Name	Description
		Querying the Amount of Unsubscripti on Orders	A customer can query the resources and original orders of the unsubscription amount for an unsubscription or degrade order on the partner sales platform.
	Managi ng yearly/ monthly resourc	Querying customer's yearly/ monthly resources	A customer can query one or all yearly/ monthly resources on the self-built platform.
	es	Renewing subscription to yearly/ monthly resources	A customer can renew subscription to yearly/monthly resources on the self-built platform.
		Unsubscribin g from yearly/ monthly resources	If a customer has subscribed to a yearly/ monthly resource, the customer can use this API to unsubscribe from the resource, including the renewed part and currently used part. The customer cannot use the resources after unsubscription.
		Enabling automatic subscription renewal for yearly/ monthly resources	A customer can use this API to enable automatic subscription renewal for its long- term yearly/monthly resources to prevent the resources from being deleted when they are expired.
		Disabling automatic subscription renewal for yearly/ monthly resources	A customer can disable automatic subscription renewal when needed. After disabling this function, the customer needs to manually renew the subscription to the resources before they expire.
		Enabling/ Canceling the Change from Yearly/ Monthly to Pay-per-Use upon Expiration	A customer can change the billing mode of resources from yearly/monthly to pay-per- use after the resources expire. The pay-per- use mode takes effect upon a yearly/ monthly expiration.

Scenar io	Sub- Scenari o	API Name	Description
	Resourc e package	Querying resource packages	A customer can query resource packages on the self-built platform.
	manage ment	Querying the Resource Usage	Customers can query the resource package usage on the self-built platform by resource.
		Querying Resource Package Usage Details	Customers can query the resource usage details on their self-built platform.
Manag ing bills	Managi ng bills	Querying Summary Bills	This API can be used to query the expenditure summary bills of a customer on the self-built platform. The bills summarize the summary data by month.
		Viewing Resource Usage Details	This API can be used to query usage details of each resource for a customer on the self- built platform.
		Viewing Resource Expenditures	This API can be used to query expenditures of each resource for a customer on the self-built platform.
Manag ing costs	Managi ng costs	Querying Cost Data	This API is used to query the cost data on the self-built platform.

3 API Invoking Methods

3.1 RESTful API

The customer platform can invoke RESTful APIs provided by HUAWEI CLOUD. Alternatively, customers can switch from the customer platform to HUAWEI CLOUD through the web UI to purchase cloud services and manage cloud service resources.

3.1.1 Constructing Requests

This section describes the structure of a RESTful API request, and uses the API for creating customers of HUAWEI CLOUD partners as an example to describe how to call an API.

Request URI

A request URI consists of the following:

{URI-scheme}://{Endpoint}/{resource-path}?{query-string}

Although the request URI is included in the request header, most languages or frameworks require that it be transmitted separately from the request message. Therefore, the request URI is listed independently.

Table 3-1	URI	parameter	description
-----------	-----	-----------	-------------

P	arameter	Description
U	IRI-scheme	Protocol used to transmit requests. All APIs use HTTPS .

Parameter	Description
Endpoint	Specifies the domain name or IP address of the server bearing the REST service endpoint.
	The endpoint of the customer operation capability API is bss.myhuaweicloud.eu .
	NOTE
	 This endpoint is a global endpoint and can be used for all regions in Huawei Cloud (European Website).
	• TLS 1.2 supported.
resource-path	Resource path, that is, the API access path. Obtain the path from the URI of the API. For example, the resource-path of the API for creating a customer is /v2/partners/sub-customers .
query-string	Query parameter, which is optional. Ensure that a question mark (?) is included before each query parameter that is in the format of " <i>Parameter name=Parameter value</i> ". For example, ?limit=10 indicates that a maximum of 10 data records will be displayed.

For example, to obtain the request URI for creating a customer, obtain the corresponding **resource-path** (/v2/partners/sub-customers). Then, construct the URI as follows:

https://bss.myhuaweicloud.eu/v2/partners/sub-customers

NOTE

To simplify URI display, each API is provided with only **resource-path** and the request method. This is because the **URI-scheme** value of all APIs is **HTTPS**, and the endpoints in a region are the same. Therefore, the two parts are omitted.

Request Method

The HTTP protocol defines the following request methods that can be used to send a request to the server:

Method	Description
GET	Requests a server to return a specified resource.
PUT	Requests a server to update a specified resource.
POST	Requests a server to add a resource or perform a special operation.

Table 3-2 HTTP me	thods
-------------------	-------

Method	Description		
DELETE	Requests a server to delete a specified resource (for example, an object).		
HEAD	Requests a server resource header.		
РАТСН	Requests a server to update partial content of a specified resource.		
	If the resource does not exist, the PATCH method is used to create a new resource.		

As shown in the URI for creating a customer, the request method is **POST**. The request URI is as follows:

POST https://bss.myhuaweicloud.eu/v2/partners/sub-customers

Request Header

You can also add additional fields to the request header, for example, the fields required by a specified URI and an HTTP method. **Table 3-3** lists common request header fields.

Field	Description	Mandatory	Example
Host	Specifies the server domain name and port number of the resources being requested. The value can be obtained from the URL of the service API. If the port number is not specified, the default port is used. The default port number for https is 443 .	No This field is mandatory only when AK/SK is used for authenticatio n.	.myhuaweicloud.com bss.myhuaweicloud.eu or bss.myhuaweicloud.eu:44 3

Table 3-3 Common request header fields

Field	Description	Mandatory	Example
Content-Type	Specifies the request body MIME type. You are advised to use the default value application/json . For an object or image upload API, the value varies depending on the flow type.	Yes	application/json
Content- Length	Length of the request body. The unit is byte.	No	3495
X-Auth-Token	Specifies the user token. For details about how to obtain a token, see Token Authentication.	No This field is mandatory only when the token is used for authenticatio n.	The following is part of an example token: MIIPAgYJKoZIhvcNAQc- CoIIO8zCCDu8CAQExDTA LBglghkgBZQMEAgEwgg 1QBgkqhkiG9w0BBwGgg g1BBIINPXsidG9rZ

NOTE

In addition to supporting authentication using tokens, APIs support authentication using AK/SK, which uses SDK to sign a request. During the signature, the **Authorization** (signature authentication) and **X-Sdk-Date** (time when a request is sent) headers are automatically added to the request.

For more details, see Authentication Using AK/SK in Authentication.

The request of the interface for creating a customer is as follows after the request header is added:

POST https://bss.myhuaweicloud.eu/v2/partners/sub-customers Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

(Optional) Request Body

This part is optional. A request body is often sent in a structured format (for example, JSON or XML) as defined in the **Content-Type** header field. If the request body contains Chinese characters, these characters must be coded in UTF-8.

Request bodies vary with API. Some APIs do not require a request body, such as the APIs requested using the GET and DELETE methods.

In the case of the API used to create a customer, you can obtain the required request parameters and parameter description from the API request. The following

is a request carrying the message body, where the request parameters vary with actual condition.

```
POST https://bss.myhuaweicloud.eu/v2/partners/sub-customers HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
    "domain_name": "test",
    "email": "xxx@huawei.com",
    "verification_code": "253xxx",
    "domain_area": "IE",
    "xaccount_id": "35reyxxxx",
    "xaccount_id": "35reyxxxx",
    "xaccount_type": "xxx_IDP",
    "password": "xxxxxxx",
    "is_close_market_ms": "true",
    "cooperation_type": "1"
}
```

If all data required for the API request is available, you can send the request to call the API through **curl**, **Postman**, or coding.

3.1.2 Authentication

You can use either of the following authentication methods when invoking an API:

- Token authentication: Requests are authenticated using tokens. This method is relatively simple.
- AK/SK authentication: Requests are encrypted using the access key ID (AK) and secret access key (SK). AK/SK authentication is recommended because it provides higher security than token authentication.

Token Authentication

NOTE

The validity period of a token is 24 hours. If a token needs to be used, the system caches the token to avoid frequent calling. For details about token validity periods, see **Obtaining a User Token Through Password Authentication**

A token specifies certain permissions in a computer system. Authenticating using a token adds the token to the request header during API calling to obtain permissions to operate APIs through IAM.

In **Constructing Requests**, the process of calling the **API for obtaining a user token** is described as an example. After obtaining the customer token, add the **X-Auth-Token** header in a request to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, add **X-Auth-Token: ABCDEFJ....** in a request as follows:

```
Content-Type: application/json X-Auth-Token: ABCDEFJ....
```

For details about how to obtain a customer token, see **Obtaining a User Token**.

AK/SK Authentication

D NOTE

AK/SK authentication supports API requests with a body size not larger than 12 MB. For API requests with a larger size, token authentication is recommended.

In AK/SK-based authentication, AK/SK is used to sign requests and the signature is then added to the requests for authentication.

- AK: access key ID, which is a unique identifier used together with an SK to sign requests cryptographically.
- SK: secret access key, which is used in conjunction with an AK to sign requests cryptographically. It identifies a request sender and prevents the request from being modified.

You can use AK/SK to sign requests based on the signature algorithm or use a dedicated signature SDK to sign the requests. For details about how to sign requests and use the signing SDK, see **API Request Signing Guide**.

NOTE

The signing SDK is only used for signing requests and is different from the SDKs provided by services.

3.1.3 Returned Values

Status Code

After sending a request, you will receive a response containing the status code, response header, and response body.

A status code, a group of digits ranging from 1xx to 5xx, indicates the status of a response. For more information, see **Status Code**.

If **204** is returned for calling the API used to create a customer, the request is successful.

Response Header

Similar to a request, a response also has a header, for example, **Content-Type**.

Figure 3-1 shows the response header for the API used to create a customer.

Temporary Headers (8)	
Body Cookies Headers (12) Test Results	Status: 200 OK Time: 1994ms Size: 476 B Save Response 🔻
KEY	VALUE
X-Frame-Options 🚯	SAMEORIGIN
Server 🕕	SecAs
Cache-Control 🚯	no-cache, no-store, must-revalidate
X-Content-Type-Options	nosniff
wise_spanid 🕕	1-1
wise_traceid 🕕	1017999-1591056752028-914815
Expires 🚯	Thu, 01 Jan 1970 00:00:00 GMT
Pragma 🕚	no-cache
X-XSS-Protection 🚯	1; mode=block
Date 🕕	Mon, 08 Jun 2020 01:44:16 GMT
Content-Type 🕕	application/json; charset=utf-8
content-length 🕕	71

Figure 3-1 Response header for the API used to create a customer

(Optional) Response Body

The body of a response is often returned in structured format (for example, JSON or XML) as specified in the **Content-Type** header field. The response body transfers content except the response header.

The following is part of the response body for the API used to create a customer:



If an error occurs during API calling, an error code and a message will be displayed. The following shows an error response body.

{
 "error_msg": "The name exists.cse://CBCCustomerRegService/rest/cbc/cbccustomerregservice/v1/
customer/register[error_code]:CBC.7156[msg]:{\"error_code\":\"CBC.7156\",\"error_msg\":\"domainName
exist.\"} ",
 "error_code": "CBC.99000038"

In the preceding information, **error_code** is an error code, and **error_msg** describes the error.

3.2 API Access Permission (Customer)

A customer needs to obtain permissions before accessing APIs. Customers' API access permissions can be granted in IAM. Supported actions of APIs are listed in

the following table. The API cannot be accessed if one of its actions is not supported.

For more information, visit Customer Operations Capability API.

NOTE

- For APIs not listed in the table, fine-grained permission verification is not required and all customer accounts can access them.
- Authentication of system-defined roles is not supported, but policy authentication is. For details about the configuration guide, see **Creating a User Group and Assigning Permissions**.

Table 3-4

Sc en ari o	Sub - Sce nari o	ΑΡΙ	URL	Permis sion Code	Supported Action
M an agi ng pr	Que ryin g prod uct	Queryin g pay- per-use product price	POST /v2/bills/ratings/on- demand-resources	bss:dis count:v iew	View discount and price information.
od uc ts	pric e	Queryin g the price of a yearly/ monthl y product	POST /v2/bills/ratings/ period-resources/subscribe- rate	bss:dis count:v iew	View discount and price information.
M an agi ng ac co un ts	Man agin g acco unts	Queryin g account balance	GET/v2/accounts/ customer-accounts/ balances	bss:bal ance:vi ew	View account information.

Sc en ari o	Sub - Sce nari o	ΑΡΙ	URL	Permis sion Code	Supported Action
M an agi	an agin	Queryin g orders	GET /v2/orders/customer- orders	bss:ord er:view	View order information.
ng tra ns act	year ly/ mon thly	Queryin g order details	GET /v2/orders/customer- orders/details/{order_id}	bss:ord er:view	View order information.
io ns	io orde Qui ns rs g ava e disc ts c	availabl	GET /v2/orders/customer- orders/order-discounts	bss:dis count:v iew	View discount and price information.
		Canceli ng orders in the pendin g paymen t status	PUT /v2/orders/customer- orders/cancel	bss:ord er:upd ate	Place orders, cancel orders, and modify recipient information.
		Paying a yearly/ monthl y order	POST /v3/orders/customer- orders/pay	bss:ord er:pay	Pay orders.
		Queryin g financia l informa tion of	GET /v2/orders/customer- orders/refund-orders	bss:ord er:view	View order information.
		an order unsubsc ribed from			

Sc en ari o	Sub - Sce nari o	ΑΡΙ	URL	Permis sion Code	Supported Action
	Man agin g year ly/ mon thly	Queryin g yearly/ monthl y resourc e list	POST /v2/orders/ suscriptions/resources/ query	bss:ord er:view	View order information.
	s ng subscri ptions to yearly/ monthl y resourc es Unsubs cribing		POST /v2/orders/ subscriptions/resources/ renew	bss:ren ewal:u pdate	Place orders, cancel orders, and modify recipient information.
			POST /v2/orders/ subscriptions/resources/ unsubscribe	bss:ord er:upd ate	Place orders, cancel orders, and modify recipient information.
		Enablin g automa tic renewal for yearly/ monthl y resourc es	POST /v2/orders/ subscriptions/resources/ autorenew/**	bss:ren ewal:u pdate	Place orders, cancel orders, and modify recipient information.

Sc en ari o	Sub - Sce nari o	ΑΡΙ	URL	Permis sion Code	Supported Action
		Disablin g automa tic renewal for yearly/ monthl y resourc es	DELETE /v2/orders/ subscriptions/resources/ autorenew/{resource_id}	bss:ren ewal:u pdate	Place orders, cancel orders, and modify recipient information.
		Enablin g/ Canceli ng the change from yearly/ monthl y to pay- per-use upon expirati on	POST /v2/orders/ subscriptions/resources/to- on-demand	bss:ren ewal:u pdate	Place orders, cancel orders, and modify recipient information.
M an agi ng bill s	Man agin g bills	Viewing bill details	POST /v2/bills/customer- bills/res-records/query	bss:bill Detail: view	View expenditure details, resource expenditures, bill analysis, and historical payments.
		Queryin g bill summa ry	GET /v1.0/{domain_id}/ customer/account-mgr/ bill/monthly-sum	bss:bill: view	View bills, monthly costs, usage details, cost management, expenditures and revenues, and cost trends.

Sc en ari o	Sub - Sce nari o	ΑΡΙ	URL	Permis sion Code	Supported Action
		Queryin g expendi ture records	GET /v2/bills/customer- bills/res-fee-records	bss:bill: view	View bills, monthly costs, usage details, cost management, expenditures and revenues, and cost trends.
M an agi ng co sts	Man agin g cost s	Queryin g cost data	POST /v4/costs/cost- analysed-bills/query	bss:cos tanalys is:view	View cost analysis.

4 Managing Products

4.1 Querying Product Information

4.1.1 Querying Cloud Service Types

Function

This API is used to query cloud service types on the customer self-built platform.

Constraints

This API can be invoked using the customer AK/SK or token.

KooGallery services are not included.

URI

GET /v2/products/service-types

Table 4-1 Header parameter

Paramete	Manda	Value	Description
r	tory	Range	
X- Language	No	A maximu m of 8 characte rs	Language. • zh_CN : Chinese • en_US : English Default value: zh_CN

Paramete r	Manda tory	Туре	Value Range	Description
offset	No	Integer	0 to 100000	Offset, which starts from 0. The default value is 0 .
			0000	If this parameter is not included in the request, is left empty, or is set to null , the value 0 is used. This parameter cannot be set to "".
				NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned.
				For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned.
				If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	[1-1000]	Number of records queried each time. The default value is 10 .
				If this parameter is not included in the request, is left empty, or is set to null , the value 10 is used. This parameter cannot be set to "".

Table 4-2 Query parameters

Request

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/products/service-types?offset=0&limit=10 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ* X-Language: zh_CN

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 characte rs	Error code. For details, see Returned Values . This parameter is returned only when the query failed.
error_msg	String	A maximu m of 1000 characte rs	Error description. This parameter is returned only when the query failed.
total_coun t	Integer	-	Total number.
service_typ es	List <ser viceTyp e></ser 	-	Cloud service type list. For details, see Table 4-3 .

Table 4-3 ServiceType

Parameter	Туре	Value Range	Description	
service_typ e_name	String	A maximu m of 200 charact ers	Cloud service type name.	
service_typ e_code	String	A maximu m of 64 charact ers	Cloud service type code.	
abbreviatio n	String	A maximu m of 200 charact ers	Abbreviation of the cloud service type.	

Example Response

HTTP/1.1 200 OK Content-Type: application/json;charset=UTF-8

```
Content-Length: length
Date: response time
{
    "total_count": 1,
    "service_types": [
    {
        "service_type_name": "Huawei Cloud WeLink",
        "service_type_code": "hws.service.type.workplace",
        "abbreviation": "WeLink"
    }
]
}
```

Returned Values

- **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Status Code	Error Code	Description
400	CBC.0100	Invalid parameter.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

4.1.2 Querying Resource Types

Function

This API is used to query the resource types on the customer self-built platform.

Constraints

This API can be invoked using the customer AK/SK or token.

URI

GET /v2/products/resource-types

Paramete	Manda	Value	Description
r	tory	Range	
X- Language	No	A maximu m of 8 characte rs	Language. • zh_CN : Chinese • en_US : English Default value: zh_CN

 Table 4-4 Header parameter

Table 4-5 Query parameters

Paramete r	Manda tory	Туре	Value Range	Description
offset	No	Integer	0 to 100000 0000	Offset, which starts from 0. The default value is 0 . If this parameter is not included in the request, is left empty, or is set to null , the value 0 is used. This parameter cannot be set to "". NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned. For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned. If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the
limit	No	Integer	[1-1000	second page, then each page will respectively have 10 records. Number of records queried each
			Ĵ	time. The default value is 10 . If this parameter is not included in the request, is left empty, or is set to null , the value 10 is used. This parameter cannot be set to "".

Request

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/products/resource-types?offset=0&limit=10 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ* X-Language: zh_CN

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 characte rs	Error code. For details, see Returned Values . This parameter is returned only when the query failed.
error_msg	String	A maximu m of 1000 characte rs	Error description. This parameter is returned only when the query failed.
total_coun t	Integer	-	Total number.
resource_t ypes	List <res ourceTy pes></res 	-	Resource type list. For details, see Table 4-6 .

Table 4-6 ResourceTypes

Parameter	Туре	Value Range	Description
resource_t ype_code	String	A maximu m of 64 charact ers	Resource type code. For example, the resource type code of ECS is hws.resource.type.vm .
resource_t ype_name	String	A maximu m of 200 charact ers	Resource type name.

Parameter	Туре	Value Range	Description
resource_t ype_desc	String	A maximu m of 200 charact ers	Resource type description.
service_typ e_code	String	A maximu m of 64 charact ers	Code of the service type which a resource belongs to. Example: hws.service.type.offline.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
    "total_count": 1,
    "resource_types": [
    {
        "resource_type_code": "hws.resource.type.workspacehost.desktop",
        "resource_type_name": "Cloud Desktop",
        "resource_type_desc": "Cloud Desktop",
        "service_type_code": "hws.service.type.workspacehost"
    }
]
```

Returned Values

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Status Code	Error Code	Description
400	CBC.0100	Invalid parameter.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

4.1.3 Querying Resources by Cloud Service Type

Function

This API is used to query the resource type code and name by associated cloud service on the self-built platform and to query the price of a pay-per-use or yearly/ monthly product.

Constraints

This API can be invoked using the customer AK/SK or token.

This API cannot be used to query the resources by KooGallery service type.

URI

GET /v2/products/service-resources

Table 4-7 Header parameter

Paramete	Manda	Value	Description
r	tory	Range	
X- Language	No	A maximu m of 8 characte rs	Language. zh_CN: Chinese en_US: English Default value: zh_CN

Table 4-8 Request parameters

Paramete r	Manda tory	Туре	Value Range	Description
service_ty pe_code	Yes	String	A maximu m of 64 charact ers	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs . To obtain a specific service type, call the API in Querying Cloud Service Types .

Paramete r	Manda tory	Туре	Value Range	Description
offset	No	Integer	0 to 100000	Offset, which starts from 0. The default value is 0 .
			00	If this parameter is not included in the request, is left empty, or is set to null , the value 0 is used. This parameter cannot be set to "".
				NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned.
				For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned.
				If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	[1-100]	Number of records queried each time. The default value is 10 .
				If this parameter is not included in the request, the value 10 is used. This parameter cannot be set to "" or null and cannot be left empty.

Request

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/products/service-resources? service_type_code=hws.service.type.obs&limit=5&offset=0 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ* X-Language: zh_CN

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 character s	Error code. For details, see Returned Values . This parameter is returned only when the query failed.
error_msg	String	A maximu m of 1000 character s	Error description. This parameter is returned only when the query failed.
total_count	Integer	-	Total number.
infos	List <servi ceResour ceInfo></servi 	A maximu m of 100 values	List of basic resource information. For details, see Table 4-9 .

 Table 4-9
 ServiceResourceInfo

Parameter	Туре	Value Range	Description
basic_info	BasicInfo Object	-	Basic resource information. For details, see Table 4-10 .

Table 4-10 ResourceBasicInfo

Parameter	Туре	Value Range	Description
resource_typ e_code	String	A maximu m of 64 character s	Resource type code. Example: hws.resource.type.general .
product_own er_service	String	A maximu m of 64 character s	Code of the service where a resource belongs. Example: hws.service.type.offline.

Parameter	Туре	Value Range	Description
name	String	A maximu m of 1024 character s	Resource type. Example: general specifications.
description	String	A maximu m of 1024 character s	Resource type description.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
  "total_count": 5,
  "infos": [
     {
         "basic_info": {
           "resource_type_code": "hws.resource.type.general",
           "product_owner_service": "hws.service.type.offline",
           "name": "general specifications",
"description": "general specifications"
        }
     },
{
        "basic_info": {
           "resource_type_code": "hws.resource.type.bandwidth",
            "product_owner_service": "hws.service.type.vpc",
           "name": "fixed bandwidth",
           "description": "fixed bandwidth"
        }
     },
{
        "basic_info": {
           "resource_type_code": "hws.resource.type.ip",
           "product_owner_service": "hws.service.type.vpc",
           "name": "EIP",
           "description": "EIP"
        }
     },
{
        "basic_info": {
            "resource_type_code": "hws.resource.type.vm.image",
           "product_owner_service": "hws.service.type.ec2",
           "name": "ECS image",
"description": "ECS image"
        }
     },
{
        "basic_info": {
           "resource_type_code": "hws.resource.type.vm",
            "product_owner_service": "hws.service.type.ec2",
```



Returned Values

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description	
400	CBC.0100	Invalid parameter.	
403	CBC.0151	Access denied.	
500	CBC.0999	Other errors.	

4.1.4 Querying Usage Types

Function

This API is used to query resource usage types on the customer self-built platform.

Constraints

This API can be invoked using the customer AK/SK or token.

URI

GET /v2/products/usage-types

Table 4-11 Header parameter

Paramete	Manda	Value	Description
r	tory	Range	
X- Language	No	A maximu m of 8 characte rs	Language. • zh_CN : Chinese • en_US : English Default value: zh_CN

Paramete r	Manda tory	Туре	Value Range	Description
resource_t ype_code	No	String	A maximu m of 64 charact ers	Resource type code. For example, the VM resource type code of ECS is hws.resource.type.vm . To obtain a specific resource type, call the API in Querying Resource Types .
				If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. If the value is "", it can be used as a filter criterion.
offset	No	Integer	0 to 100000 000	Offset, which starts from 0. The default value is 0 . NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned. For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned. If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	1 to 100	Number of records queried each time. The default value is 10 .

Request

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/products/usage-types?offset=0&limit=3 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ* X-Language: zh_CN

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 character s	Error code. For details, see Returned Values . This parameter is returned only when the query failed.
error_msg	String	A maximu m of 1000 character s	Error description. This parameter is returned only when the query failed.
total_count	Integer	-	Total number.
usage_types	List <usa geType></usa 	-	Usage type list. For details, see Table 4-13 .

Table 4-13 UsageType

Parameter	Туре	Value Range	Description
code	String	A maximu m of 64 character s	Usage type code, for example, reqNumber .
name	String	A maximu m of 1024 character s	Usage type name, for example, the number of invoking times.
resource_typ e_code	String	A maximu m of 64 character s	Resource type code. For example, the resource type code of VM is hws.resource.type.vm .

Parameter	Туре	Value Range	Description
service_type _code	String	A maximu m of 64 character s	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .
resource_typ e_name	String	A maximu m of 200 character s	Resource type. For example, the resource type of ECS is Cloud Host .
service_type _name	String	A maximu m of 200 character s	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
 "total_count": 6048,
 "usage_types": [
 {
"code": "flow",
"name":
  "name": "Video connection traffic",
"resource_type_code": "hws.resource.type.live.videoconnect",
"service_type_code": "hws.service.type.live",
  "resource_type_name": "Video connection",
"service_type_name": "Live streaming"
  },
  {
   "code": "reqNumber",
           "name": "Invoking times",
  "resource_type_code": "hws.resource.type.pca.quantity",
  "service_type_code": "hws.resource.type.ccm",
"resource_type_name": "Number of private certificates",
"service_type_name": "The cloud certificate management service"
  },
  {
   "code": "dailyalarmnum",
           "name": "Alarms",
  "resource_type_code": "hws.resource.type.aicms.cdfl",
"service_type_code": "hws.service.type.aimgs",
  "resource_type_name": "The fault identification and root cause locating service",
  "service_type_name": "The modeling service"
 }
]
}
```

Returned Values

D NOTE

- **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description	
403	CBC.0151	Access denied.	
500	CBC.0999	Other errors.	
400	CBC.0100	Parameter error.	

4.1.5 Querying Measurement Units

Function

This API is used to query the resource usage, measurement unit for the duration and amount of a yearly/monthly resource, as well as the measurement unit type on the self-built platform.

Constraints

This API can be invoked using the customer AK/SK or token.

URI

GET /v2/bases/measurements

Table 4-14 Header parameter

Paramete	Manda	Value	Description
r	tory	Range	
X- Language	No	A maximu m of 8 characte rs	Language. • zh_CN : Chinese • en_US : English Default value: zh_CN

Request

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/bases/measurements HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ* X-Language: zh_CN

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 characte rs	Error code. For details, see Returned Values . This parameter is returned only when the query failed.
error_msg	String	A maximu m of 1000 characte rs	Error description. This parameter is returned only when the query failed.
measure_u nits	List <me asureUn itRest></me 	-	Measurement unit information. For details, see Table 4-15 .

Table 4-15 MeasureUnitRest

Parameter	Туре	Value Range	Description
measure_i d	Integer	-	Measurement unit ID. For example, 10 indicates GB.
measure_n ame	String	A maximu m of 128 charact ers	Measurement unit name, which is returned based on the language type. Example: GB.
abbreviatio n	String	A maximu m of 64 charact ers	Abbreviation of a measurement unit name. For example, the abbreviation of GB is G .

Parameter	Туре	Value Range	Description
measure_t	Integer	-	Measurement type.
уре			• 1: Currency
			• 2: Duration
			• 3 : Traffic
			• 4 : Quantity
			• 7: Capacity
			• 9: Number of lines
			• 10: Period
			• 11 : Frequency
			• 12 : Count
			• 16 : Bandwidth
			• 17: Capacity-duration
			• 18: Query rate
			• 19 : Bandwidth (1000)
			• 20 : Performance test usage
			• 21 : Area
			• 22: Video
			• 23: Throughput
			• 24: Resolution
			 26: Deduction unit for a general resource package
			• 30 : Throughput x Duration
			• 31 : Number/Duration
			• 40 : Traffic (1000)
			• 41 : 1K tokens

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
    "measure_units": [
    {
        "measure_id": 0,
        "measure_name": "Day",
        "abbreviation": "d",
        "measure_type": 2
    },
    {
        {
        "measure_id": 1,
        "measure_id": 1
```

```
{
    "measure_id": 10,
    "measure_name": "GB",
    "abbreviation": "G",
    "measure_type": 3
}
```

Returned Values

NOTE

- **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

4.1.6 Querying the Measurement Unit Number System

Function

This API is used to query the measurement unit number system on the self-built platform.

Constraints

This API can be invoked using the customer AK/SK or token.

URI

GET /v2/bases/conversions

Paramete r	Manda tory	Туре	Value Range	Description
		Type		Description Measurement type. • 1: Currency • 2: Duration • 3: Traffic • 4: Quantity • 7: Capacity • 9: Number of lines • 10: Period • 11: Frequency • 12: Count • 16: Bandwidth • 17: Capacity-duration • 18: Query rate • 19: Bandwidth (1000) • 20: Performance test usage • 21: Area • 22: Video • 23: Throughput
				 24: Resolution 26: Deduction unit for a general resource package 30: Throughput x Duration 31: Number/Duration 40: Traffic (1000) 41: 1K tokens If this parameter is not included in the request, is left empty, or is set to null, it will not be used as a filter criterion.

Table 4-16 Request parameters

Request

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/bases/conversions?measure_type=3 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 characte rs	Error code. For details, see Returned Values . This parameter is returned only when the query failed.
error_msg	String	A maximu m of 1000 characte rs	Error description. This parameter is returned only when the query failed.
conversion s	List <co nversio n></co 	-	Measurement unit conversion information. For details, see Table 4-17 .

Table 4-17 Conversion

Parameter	Туре	Value Range	Description
measure_i d	Integer	-	Measurement unit ID. For example, 10 indicates GB.
ref_measur e_id	Integer	-	Measurement unit ID after conversion. For example, 11 indicates MB.
conversion _ratio	Long	-	Conversion ratio. Example: If the measurement unit is GB and the target unit is MB, the conversion ratio is 1024 (1 GB = 1024 MB).

Parameter	Туре	Value Range	Description
measure_t	Integer	-	Measurement type.
уре			• 1: Currency
			• 2: Duration
			• 3 : Traffic
			• 4 : Quantity
			• 7: Capacity
			• 9: Number of lines
			• 10: Period
			• 11 : Frequency
			• 12 : Count
			• 16 : Bandwidth
			• 17: Capacity-duration
			• 18: Query rate
			• 19 : Bandwidth (1000)
			• 20 : Performance test usage
			• 21 : Area
			• 22: Video
			• 23: Throughput
			• 24: Resolution
			 26: Deduction unit for a general resource package
			• 30 : Throughput x Duration
			• 31 : Number/Duration
			• 40 : Traffic (1000)
			• 41 : 1K tokens

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
    "conversions": [
    {
        "measure_id": 10,
        "ref_measure_id": 11,
        "conversion_ratio": 1024,
        "measure_type": 3
    },
    {
        {
        "measure_id": 0,
        "ref_measure_id": 5,
        "conversion_ratio": 1440,
        "measure_type": 2
    }
```

]

Returned Values

- **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

4.2 Querying the Price of a Product

4.2.1 Querying the Price of a Pay-Per-Use Product

Function

Customers can query the price of a pay-per-use product by criteria on the selfbuilt platform.

If the tenant who purchases the product enjoys a discount, the discount amount and the final price can be obtained from the query result.

If the tenant has enjoyed multiple types discounts, the system will return the commercial discount amount and the final price preferentially.

- Ensure that you provide the correct service type, region, resource type, and resource specification. Otherwise, an error may be reported.
- You can use the to determine product prices.
- You can also use the price calculator to get the value of the **product_infos** request parameter when you call the API for querying product prices. For more details, see price inquiry examples.

Constraints

This API can be invoked using the AK/SK or token of the customer.

URI

POST /v2/bills/ratings/on-demand-resources

Request

Request Parameters

Parameter	Manda tory	Туре	Value Range	Description
project_id	Yes	String	A maximu m of 64 charact ers	 Project ID. NOTE Access the My Credentials page. On the Projects tab, view the project IDs of different regions. To call this API, an IAM member account must be authorized by the IAM master account. For details, see Creating a User Group and Assigning Permissions.
product_in fos	Yes	List <de mandPr oductIn fo></de 	A maximu m of 100 values	Indicates the product information list. For details, see Table 4-18 .
inquiry_pr ecision	No	Integer	-	Precision of the price query result. The default value of this parameter is 0 (default precision of the price query result).
				 0: The default precision of the query result. The result contains a maximum of six decimal places with the unit of USD, such as USD 0.000001.
				 1: The result contains a maximum of 10 decimal places with the unit of USD, such as USD 1.000000001.
				NOTE Value 0 and value 1 make differences only when the query result contains at least six decimal places.

Table	4-18	DemandProductInfo
-------	------	-------------------

Parameter	Manda tory	Туре	Value Range	Description
id	Yes	String	A maxim um of 64 charact ers	The ID is used to identify the mapping between the inquiry result and the request and must be unique in an inquiry.
cloud_servi ce_type	Yes	String	A maxim um of 400 charact ers	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs . To obtain a specific service type, call the API in Querying Cloud Service Types .
resource_ty pe	Yes	String	A maxim um of 400 charact ers	Resource type code. For example, the VM resource type code of ECS is hws.resource.type.vm . To obtain a specific resource type, call the API in Querying Resource Types . The relationship between ResourceType and CloudServiceType is as follows: A resource type represents a resource contained in the cloud service type, and the cloud service type is a combination of multiple resource types.

resource_s Yes String A Resource specifications. For deta see related cloud service documentation.	
400 charact ers The following provides examples services and resource specification escribes and resource and resource and resource and escribes and resource specification and resource specification e	es of ions: d of for ors avor c c t t h ic IP IP isk SSD isk

Parameter	Manda tory	Туре	Value Range	Description
				 GPSSD2.throughput: General- purpose SSD V2 throughput
region	Yes	String	A maxim um of 64 charact ers	Cloud service region code, for example, eu_west_101.
usage_fact or	Yes	String	A maxim um of 64 charact ers	Usage factor. Usage factors are case-insensitive. The value is the same as the usage factor value in the SDR. The mapping between cloud services and usage factors is as follows:
				Cloud server: Duration
				Cloud disk: Duration
				EIP: Duration
				Bandwidth: Duration or upflow
				Marketplace image: Duration
				You can call the API in Querying Usage Types to obtain the value of parameter code in Table 4-13 . The value indicates the billing factor of each cloud service.
usage_valu	Yes	BigDeci	-	Usage value.
e		mal		For example, if you want to inquire a product price by hour, set usageValue to 1 and usageMeasureID to 4 (hour).
usage_mea sure_id	Yes	Integer	A maxim um of 4	Usage unit. You can call the API in Querying Measurement Units to obtain the value.
		charact ers	For example, if you want to inquire a product price by hour, set usageValue to 1 and usageMeasureID to 4 (hour).	
subscriptio n_num	Yes	Integer	[1-1000 0]	Number of subscriptions.

Parameter	Manda tory	Туре	Value Range	Description
available_z one	No	String	A maxim um of 64 charact ers	Available zone ID. Available zone IDs are case-insensitive. If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
resource_si ze	No	Integer	[1-2147 83647]	Resource capacity. It can be the subscribed volume size or bandwidth size. This parameter is mandatory for a linear product. Linear products are those whose size must be specified during a subscription, such as hard disks and bandwidth. For example, you can select 10 GB or 20 GB during a disk subscription. For non-linear products, if this parameter is not included in the request parameters or is set to null , it cannot be used as a filter criterion.
size_measu re_id	No	Integer	A maxim um of 4 charact ers	 Resource capacity measurement ID. The options are: 15: Mbit/s (used when the bandwidth is subscribed) 17: GB (used when an EVS disk is subscribed to) 14: amount (times) This field should be filled together with resource_size or left blank. Linear products are those whose size must be specified during a subscription, such as hard disks and bandwidth. For example, you can select 10 GB or 20 GB during a disk subscription. For non-linear products, if this parameter is not included in the request parameters or is set to null, it cannot be used as a filter criterion.

Example Request

POST https://bss.myhuaweicloud.eu/v2/bills/ratings/on-demand-resources HTTP/1.1 Content-Type: application/json

```
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
   "project_id": "06488a******832f55c016b0e337d7",
   "product_infos": [
      {
         "id": "1",
         "cloud_service_type": "hws.service.type.ec2",
         "resource_type": "hws.resource.type.vm",
"resource_spec": "c3.3xlarge.2.linux",
         "region": "eu-west-101",
         "usage_factor": "Duration",
          "usage_value": 2,
         "usage_measure_id": 4,
         "subscription_num": 1,
         "available_zone": null
      },
      {
         "id": "2",
         "cloud_service_type": "hws.service.type.ebs",
         "resource_type": "hws.resource.type.volume",
"resource_spec": "SSD",
"region": "eu-west-101",
"usage_factor": "Duration",
         "usage_value": 2,
          "usage_measure_id": 4,
          "subscription_num": 1,
         "resource_size": 10,
         "size_measure_id": 17
      },
{
         "id": "3",
         "cloud_service_type": "hws.service.type.vpc",
         "resource_type": "hws.resource.type.ip",
"resource_spec": "5_bgp",
         "region": "eu-west-101",
"usage_factor": "Duration",
         "usage_value": 3,
         "usage_measure_id": 4,
          "subscription_num": 1,
          "available_zone": null
      },
      {
         "id": "4",
         "cloud_service_type": "hws.service.type.vpc",
         "resource_type": "hws.resource.type.bandwidth",
"resource_spec": "12_sbgp",
         "region": "eu-west-101",
         "usage_factor": "upflow",
         "usage_value": 4,
          "usage_measure_id": 10,
         "subscription_num": 1,
         "available_zone": "cn-north-1a",
          "resource_size": 1,
          "size_measure_id": 15
      }
   1
   "inquiry_precision": 1
}
```

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 character s	Status code. For details, see Returned Values . This parameter is returned only when the query failed.
error_msg	String	A maximu m of 1000 character s	Error description. This parameter is returned only when the query failed.
amount	BigDecima l	-	Final price after discount
discount_am ount	BigDecima l	-	Discount amount (difference between the list price and the final price).
official_webs ite_amount	BigDecima l	-	List price of a pay-per-use product
measure_id	Integer	A maximu m of 4 character s	Measurement unit ID. 1: USD
currency	String	A maximu m of 20 character s	Currency. USD If the parameter is left blank, USD is used.
product_rati ng_results	List <dema ndProduct RatingRes ult></dema 	-	Product price query result. For details, see Table 4-19 .

Table 4-19	DemandProductRatingResult
------------	---------------------------

Parameter	Туре	Value Range	Description
id	String	A maximum of 64 character s	The ID is used to identify the mapping between the inquiry result and the request and must be unique in an inquiry.

Parameter	Туре	Value Range	Description
product_id	String	A maximum of 64 character s	Product ID.
amount	BigDecim al	-	Final price after discount
discount_am ount	BigDecim al	-	Discount amount (difference between the list price and the final price).
official_webs ite_amount	BigDecim al	-	List price of a pay-per-use product
measure_id	Integer	A maximum of 4 character s	Measurement unit ID. 1: USD
discount_rati ng_results	List <dem andDiscou ntRatingR esult></dem 	-	Discount details, including the product promotion information and commercial or partner discount information. For details, see Table 4-20 .

 Table 4-20
 DemandDiscountRatingResult

Parameter	Туре	Value Range	Description
discount_id	String	A maximu m of 64 character s	Discount ID.
discount_typ e	Integer	A maximu m of 4 character s	 Discount type. Commercial discounts: 605: Contract commercial discount in the HUAWEI CLOUD BE scenario 606: Contract commercial discount in the reseller BE scenario Partner discounts: 607: Partner authorized discount

Parameter	Туре	Value Range	Description
amount	BigDecim al	-	Discounted amount.
measure_id	Integer	A maximu m of 4 character s	Measurement unit ID. 1: USD
discount_na me	String	A maximu m of 256 character s	Discount name.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
  "amount": 8.128,
  "discount_amount": 0.0,
  "official_website_amount": 8.128,
  "measure_id": 1,
  "currency": "USD",
  "product_rating_results": [
     {
        "id": "1",
        "product_id": "00301-243025-0--0_merge",
"amount": 5.48,
        "discount_amount": 0.0,
        "official_website_amount": 5.48,
        "measure_id": 1,
        "discount_rating_results": []
     },
{
        "id": "2",
        "product_id": "00301-290407774-0--1",
        "amount": 0.028,
        "discount_amount": 0.0,
        "official_website_amount": 0.028,
        "measure_id": 1,
        "discount_rating_results": []
     },
{
        "id": "3",
        "product_id": "00301-238601-0--0_merge",
"amount": 0.06,
        "discount_amount": 0.0,
        "official_website_amount": 0.06,
        "measure_id": 1,
        "discount_rating_results": []
     },
{
        "id": "4",
        "product_id": "00301-290407706-0--1",
        "amount": 2.56,
```

```
"discount_amount": 0.0,

"official_website_amount": 2.56,

"measure_id": 1,

"discount_rating_results": []

}
]
```

Returned Values

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
400	CBC.0100	Parameter error.
400	CBC.99006006	Product not found.
400	CBC.99006050	Incorrect usage unit.
400	CBC.99006055	The queried amount exceeds the upper limit.
400	CBC.99006074	The billing item does not exist.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

4.2.2 Querying the Price of a Yearly/Monthly Product

Function

Customers can use this API to query prices of yearly/monthly products for new subscriptions on their platforms.

If the tenant who purchases the product enjoys a discount, the discount amount and the final price can be obtained from the query result.

If the customer enjoys multiple discounts, the system returns the rating result for each discount. The system preferentially uses the rating result of the commercial discount if the customer selects automatic payment.

- Ensure that you provide the correct service type, region, resource type, region and resource specification. Otherwise, an error may be reported.
- You can use the to determine product prices.
- You can also use the price calculator to get the value of the **product_infos** request parameter when you call the API for querying product prices. For more details, see price inquiry examples.

Constraints

This API can be invoked using the AK/SK or token of the customer.

URI

POST /v2/bills/ratings/period-resources/subscribe-rate

Request

Request Parameters

Parameter	Manda tory	Туре	Value Range	Description
project_id	Yes	String	A maximu m of 64 charact ers	 Project ID. NOTE Access the My Credentials page. On the Projects tab, view the project IDs of different regions. To call this API, an IAM member account must be authorized by the IAM master account. For details, see Creating a User Group and Assigning Permissions.
product_in fos	Yes	List <per iodProd uctInfo ></per 	A maximu m of 100 values	Product information list. For details, see Table 4-21 .

Table 4-21	PeriodProductInfo
------------	-------------------

Parameter	Manda tory	Туре	Value Range	Description
id	Yes	String	A maxim um of 64 charact ers	The ID is used to identify the mapping between the inquiry result and the request and must be unique in an inquiry.
cloud_servi ce_type	Yes	String	A maxim um of 400 charact ers	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs . To obtain a specific service type, call the API in Querying Cloud Service Types .
resource_ty pe	Yes	String	A maxim um of 400 charact ers	Resource type code. For example, the VM resource type code of ECS is hws.resource.type.vm . To obtain a specific resource type, call the API in Querying Resource Types . The relationship between ResourceType and CloudServiceType is as follows: A resource type represents a resource contained in the cloud service type, and the cloud service type is a combination of multiple resource types.

Parameter	Manda tory	Туре	Value Range	Description
resource_s pec	Yes	String	A maxim um of 400 charact ers	 Resource specifications. For details, see related cloud service documentation. The following provides examples of services and resource specifications: ECS Add .win or .linux to the end of the ECS flavor ID based on the OS type, for example, s2.small.1.linux. Call the API for querying details about flavors and extended flavor information to obtain the flavor IDs. Bandwidth 12_bgp: dynamic BGP bandwidth billed by traffic 12_sbgp: static BGP bandwidth billed by traffic 19_bgp: dynamic BGP bandwidth billed by bandwidth 19_sbgp: Static BGP bandwidth billed by bandwidth 19_share: Shared bandwidth billed by bandwidth IP address: 5_bgp: dynamic BGP public IP address RDS: You can call the API for querying database specifications. DCS: You can call the API for querying service specifications. EVS: SATA: Common I/O SAS: High I/O

Parameter	Manda tory	Туре	Value Range	Description
				 GPSSD: General-purpose SSD SSD: Ultra-high I/O ESSD: Extreme SSD GPSSD2.storage: General- purpose SSD V2 storage
region	Yes	String	A maxim um of 64 charact ers	Cloud service region code, for example, eu_west_101.
period_typ e	Yes	Integer	[0-4]	Period type of a yearly/monthly product order. • 0: Day • 2: Month • 3: Year • 4: Hour
period_nu m	Yes	Integer	[1-2147 83647]	Number of periods of a yearly/ monthly product order.
subscriptio n_num	Yes	Integer	[1-1000 0]	Number of subscriptions of a yearly/monthly product order.
available_z one	No	String	A maxim um of 64 charact ers	AZ identifier, for example, cn- north-1a . AZ identifiers are case- insensitive. If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.

Parameter	Manda tory	Туре	Value Range	Description
resource_si ze	No	Integer	[1-2147 83647]	Resource capacity. It can be the subscribed volume size or bandwidth size.
				This parameter is mandatory for a linear product. Linear products are those whose size must be specified during a subscription, such as hard disks and bandwidth. For example, you can select 10 GB or 20 GB during a disk subscription.
				For non-linear products, if this parameter is not included in the request parameters or is set to null , it cannot be used as a filter criterion.
size_measu re_id	No	Integer	-	Resource capacity measurement ID. The options are as follows:
				 15: Mbit/s (used when the bandwidth is subscribed)
				 17: GB (used when a cloud disk is subscribed)
				• 14: amount
				This parameter is mandatory for a linear product. Linear products are those whose size must be specified during a subscription, such as hard disks and bandwidth. For example, you can select 10 GB or 20 GB during a disk subscription.
				For non-linear products, if this parameter is not included in the request parameters or is set to null , it cannot be used as a filter criterion.

Example Request

```
POST https://bss.myhuaweicloud.eu/v2/bills/ratings/period-resources/subscribe-rate HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
    "project_id": "84c53ec51e794a4888fb0f5c0cfb24208b9a7edf90024702adbec2b2fd72e5f2",
    "product_infos": [
    {
        "id": "1",
        "cloud_service_type": "hws.service.type.ec2",
        "resource_type": "hws.resource.type.vm",
        "resource_spec": "c6.2xlarge.2.linux",
        "region": "eu-west-101",
```

```
"available_zone": "eu-west-101a",
  "resource_size": null,
  "size_measure_id": null,
  "period_type": 2,
"period_num": 1,
  "subscription_num": 1
  },
{
  "id": "2",
  "cloud_service_type": "hws.service.type.vpc",
  "resource_type": "hws.resource.type.ip",
"resource_spec": "5_bgp",
  "region": "eu-west-101",
  "available_zone": null"eu-west-101a",
  "resource_size": null,
  "size_measure_id": 15,
  "period_type": 2,
  "period_num": 1,
  "subscription_num": 1
   },
   {
   "id": "3",
  "cloud_service_type": "hws.service.type.ebs",
  "resource_type": "hws.resource.type.volume",
  "resource_spec": "GPSSD",
"region": "eu-west-101",
  "available_zone": "eu-west-101a",
  "resource_size": 40,
  "size_measure_id": 17,
  "period_type": 2,
  "period_num": 1,
  "subscription_num": 1
   },
    {
     "id": "4",
  "cloud_service_type": "hws.service.type.vpc",
  "resource_type": "hws.resource.type.bandwidth",
"resource_spec": "19_bgp",
  "region": "eu-west-101",
"available_zone":"eu-west-101a",
  "resource_size": 40,
  "size_measure_id": 15,
  "period_type": 2,
  "period num": 1,
  "subscription_num": 1
    }
]
```

Response

}

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 character s	Status code. For details, see Returned Values . This parameter is returned only when the query failed.

Parameter	Туре	Value Range	Description
error_msg	String	A maximu m of 1000 character s	Error description. This parameter is returned only when the query failed.
official_webs ite_rating_re sult	List <offici alWebsite RatingRes ult Object></offici 	-	The result for querying the list price of a yearly/monthly product. For details, see Table 4-22 .
optional_disc ount_rating_ results	List <optio nalDiscou ntRatingR esult></optio 	-	Rating results by discount if optional discounts exist. Each optional discount has a rating result. For details, see Table 4-24 .
currency	String	A maximu m of 20 character s	Currency. USD If the parameter is left blank, USD is used.

 Table 4-22
 OfficialWebsiteRatingResult

Parameter	Туре	Value Range	Description
official_webs ite_amount	BigDecim al	-	Price of a yearly/monthly product on the official website.
measure_id	Integer	A maximum of 4 character s	Measurement unit ID. 1: USD
product_rati ng_results	List <perio dProduct OfficialRa tingResult ></perio 	-	Price query result. For details, see Table 4-23 .

Parameter	Туре	Value Range	Description
id	String	A maximu m of 64 character s	ID, which comes from the ID in the request.
product_id	String	A maximu m of 64 character s	Yearly/monthly product ID.
official_webs ite_amount	BigDecim al	-	Price of a yearly/monthly product on the official website.
measure_id	Integer	A maximu m of 4 character s	Measurement unit ID. • 1: USD

 Table 4-23 Price query result.

 Table 4-24 OptionalDiscountRatingResult

Parameter	Туре	Value Range	Description
discount_id	String	A maximu m of 64 character s	Discount ID.
amount	BigDecim al	-	Final price after the discount. Amount= official_website_amount - discountAmount
official_webs ite_amount	BigDecim al	-	Price of a yearly/monthly product on the official website.
discount_am ount	BigDecim al	-	Amount of an available discount, such as commercial discounts, partner discounts, promotion discounts, and coupons.

Parameter	Туре	Value Range	Description
measure_id	Integer	A maximu m of 4 character s	Measurement unit ID. 1: USD
discount_typ e	Integer	A maximu m of 32 character s	 Discount type. Commercial discounts: 605: Contract commercial discount in the HUAWEI CLOUD BE scenario 606: Contract commercial discount in the reseller BE scenario Partner discounts: 607: Partner authorized discount
discount_na me	String	A maximu m of 256 character s	Discount name.
best_offer	Integer	-	 Optimal discount. 0: No (default value) 1: Yes Optimal discount: The system selects a discount from the commercial discount and partner discount. The discount with the maximum discount amount is the optimal discount. If the discount amounts are the same, the system uses the commercial discount first. The promotional discount and coupon are not in the calculation of the optimal discount.
product_rati ng_results	List <perio dProductR atingResul t></perio 	-	Product price query result. For details, see Table 4-25 .

Parameter	Туре	Value Range	Description
id	String	A maximu m of 64 character s	ID, which comes from the ID in the request.
product_id	String	A maximu m of 64 character s	Yearly/monthly product ID.
amount	BigDecim al	-	Final price after the discount. Amount= official_website_amount - discountAmount
official_webs ite_amount	BigDecim al	-	Price of a yearly/monthly product on the official website.
discount_am ount	BigDecim al	-	Amount of an available discount, such as commercial discounts, partner discounts, promotion discounts, and coupons.
measure_id	Integer	A maximu m of 4 character s	Measurement unit ID. 1: USD

Table 4-25 PeriodProductRatingResult

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
   "official_website_rating_result": {
"official_website_amount": 529.67,
"installment_official_website_amount": null,
       "installment_period_type": null,
       "measure_id": 1,
       "product_rating_results": [
          {
             "id": "1",
             "product_id": "OFFI777523764289028104,
             "official_website_amount": 182.07,
             "measure_id": 1,
             "installment_official_website_amount": null,
             "installment_period_type": null
          },
{
             "id": "2",
```

```
"product_id": "OFFI777346878061772800",
        "official_website_amount": 0.0,
        "measure_id": 1,
        "installment_official_website_amount": null,
        "installment_period_type": null
     },
     {
        "id": "3",
        "product_id": "OFFI776402238127517698",
        "official_website_amount": 5.6,
        "measure_id": 1,
        "installment_official_website_amount": null,
        "installment_period_type": null
     },
     {
        "id": "4",
        "product_id": "OFFI777135464818663425",
        "official_website_amount": 342.0,
        "measure_id": 1,
        "installment official website amount": null,
        "installment_period_type": null
     }
  ]
},
"optional_discount_rating_results": [],
"currency": "USD"
```

Returned Values

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
400	CBC.0100	Parameter error.
400	CBC.99006006	Product not found.
400	CBC.99006055	The queried amount exceeds the upper limit.
403	CBC.0151	Access denied.
429	CBC.0250	Connection request control triggered.
500	CBC.0999	Other errors.

4.2.3 Querying the Renewal Price of a Yearly/Monthly Resource

Function

Customers can query the renewal price of a yearly/monthly resource by criteria on a self-built platform.

NOTE

- If a primary resource has resources attached, the renewal price will include the price of the primary resource and that of the attached. The information of the attached resources can also be accessed through **Querying Customer's Yearly/Monthly Resources**.
- Note: When a newly purchased EVS disk is attached to an ECS, the EVS disk is not necessarily an attached resource of the ECS. The precise information of the attached resources can only be accessed through Querying Customer's Yearly/Monthly Resources.

Constraints

Only customer AK/SK or Token can be used to call the API.

URI

POST /v2/bills/ratings/period-resources/renew-rate

Request

Request parameters

Paramet er	Mand atory	Parame ter Type	Value Range	Description
resource _ids	Yes	List <stri ng></stri 	[1-10]	Primary resource IDs A maximum of 10 resource IDs are supported. Determine whether a resource is a primary resource or not by the is_main_resource , a response parameter described in Querying Customer's Yearly/Monthly Resources .
period_ty pe	Yes	Integer	[2 3]	Period type: • 2: Month • 3: Year

Paramet er	Mand atory	Parame ter Type	Value Range	Description
period_n um	Yes	Integer	[1-11]	Number of periods: • Month: 1 to 11 • Year: 1 to 3
include_r elative_r esources	No	Boolean	-	 Specifies whether to include associated resources for renewal price querying. false: Not included. true: Included. If this parameter is not included in the request or is set to "", the default value false is used.

```
Request Sample
POST https://bss.myhuaweicloud.eu/v2/bills/ratings/period-resources/renew-rate HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
   "resource_ids": ["230221_169ee******9d5b8af6a38f099abea"],
   "period_type": 2,
"period_num": 1,
"include_relative_resources": false
}
```

Response

Response Parameters

Parameter	Parameter Type	Value Range	Description
error_code	String	A maximu m of 20 character s	Status code For details, see Status Codes .
error_msg	String	A maximu m of 1,000 character s	Error description

Parameter	Parameter Type	Value Range	Description
currency	String	A maximu m of 20 character s	Currency USD If the parameter is left blank, USD is used.
renew_inqui ry_results	List <rene wInquiryRe sultInfo></rene 		Renew price inquiry result of the primary resources and their attached resources For details, see Table 4-26.
official_web site_rating_ result	OfficialWe bsiteRating Result Object		For list price of a primary resource and its attached resources, see Table 4-27 .
optional_dis count_ratin g_results	List <optio nalDiscoun tRatingRes ult></optio 		Price inquiry result with an optional discount applied. If there are multiple optional discounts, different price inquiry results can be returned with a different discount applied each time. For details, see Table 3 OptionalDiscountRating- Result .
fail_resourc e_infos	List <failre sourceInfo ></failre 		Resource information for a failed query. For details, see resource information for a failed query .

Table 4-26 RenewInquiryResultInfo

Parameter	Parameter Type	Description
resource_id	String	Resource ID. NOTE If the request contains the include_relative_resources field, the ID of the associated primary resource will be returned.
amount	String	Renewal price of primary resources and their attached resources Unit: USD NOTE If the request contains the include_relative_resources field, the renewal amount of the associated primary resource is returned.

Parameter	Paramete r Type	Value Range	Description
official_webs ite_amount	String	A maximum of 64 character s	List price Unit: USD

 Table 4-27 OfficialWebsiteRatingResult

 Table 4-28
 OptionalDiscountRatingResult

Parameter	Paramete r Type	Value Range	Description
discount_id	String	A maximu m of 64 character s	Discount ID.
amount	String	A maximu m of 64 character s	Final price after the discount Unit: USD Amount= official_website_amount - discount_amount
official_webs ite_amount	String	A maximu m of 64 character s	List price Unit: USD
discount_am ount	String	A maximu m of 64 character s	Amount of an available discount, such as commercial discounts, partner discounts, promotion discounts, and coupons Unit: USD
discount_typ e	Integer	A maximu m of 32 character s	 Discount type Commercial discounts: 605: Contract commercial discount in the Huawei Cloud BE scenario 606: Contract commercial discount in the reseller BE scenario Partner discounts: 607: Partner authorized discount - discount rate

Parameter	Paramete r Type	Value Range	Description
discount_na me	String	A maximu m of 256 character s	Discount name
best_offer	Integer	-	 Optimal discount or not 0: No (default value) 1: Yes Optimal discount is a discount selected from the commercial discount and partner discount. The discount with the maximum discount amount is the optimal discount. If the discount amounts are the same, the system uses the commercial discount first. The promotional discount and coupon are not in the calculation of the optimal discount.

Resource information for a failed query

Parameter	Parameter Type	Description
error_code	String	Status code
		For details, see Table Status Codes.
error_msg	String	Error description
resource_id	String	Resource ID.

Status code: 200

```
Response Sample

HTTP/1.1 200 OK

Content-Type: application/json;charset=UTF-8

Content-Length: length

Date: response time

{

    "currency": "CNY",

    "renew_inquiry_results": [{

        "resource_id": "230221_169ee*******9d5b8af6a38f099abea",

        "amount": "800.0"

    }],

    "official_website_rating_result": {

        "official_website_rating_result": {

        "official_website_amount": "800.0",

        "installment_official_website_amount": null,

        "installment_period_type": null

    },

    "optional_discount_rating_results": [],
```

}

"fail_resource_infos": []

Status Codes

NOTE

- **4***xx*: indicates an error resulting from client, such as the request contains bad syntax or an invalid parameter. You need to check the statement and its format and make a request again.
- **5***xx*: indicates an error to the Huawei Cloud system, which prevented the system from fulfilling the request from client. You can contact Huawei Cloud customer service to handle the issue.

HTTP Status Code	Error Code	Description
200	CBC.300500 07	Renewal price inquiry is not applicable to non- primary resources.
200	CBC.300500 08	The period type or number of periods for the resource does not exist.
200	CBC.300500 09	The resources have expired and been deleted or do not exist.
200	CBC.300500 10	This operation is not allowed because some resources included in your orders are to be paid.
200	CBC.300500 11	Resources are being unsubscribed from or changed.
200	CBC.300500 13	Renewal not supported.
400	CBC.0100	Incorrect parameter
400	CBC.990060 06	The required product cannot be found.
400	CBC.990060 24	Failed to query product information.
400	CBC.990060 16	Failed to query coupon information.
400	CBC.990060 17	Failed to query customer information.
400	CBC.990060 50	Incorrect usage unit
400	CBC.990060 55	The queried amount exceeds the upper limit.
400	CBC.990060 66	Billing query failed

HTTP Status Code	Error Code	Description
400	CBC.990060 73	Project not found.
400	CBC.300500 12	There are duplicate resource IDs.
403	CBC.0151	Access denied
403	CBC.0154	Invalid or expired token
500	CBC.0999	Other errors

5 Managing Accounts

5.1 Querying the Account Balance

Function

This API can be used to query the account balance for a customer.

Customers log in to the Billing Center, switch to the **Overview** page, and query the account balance on the page.

Constraints

- When a customer queries its account balance, only the AK/SK or token of the customer can be used.
- This API is not applicable to reseller customers.

URI

GET /v2/accounts/customer-accounts/balances

Request Message

Request parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/accounts/customer-accounts/balances HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAqYJKoZIhvcNAQcCo...qqq1BBIINPXsidG9rZ*

Response Message

Parameter	Туре	Value Range	Description
error_code	String	A maximum of 20 characters	Error code. For details, see Returned Values . This parameter is returned only when a failure occurs.
error_msg	String	A maximum of 2,000 characters	Error description. This parameter is returned only when a failure occurs.
account_bala nces	List <account BalanceV2></account 	-	Account balances. For details, see Table 5-1 .
debt_amount	BigDecimal	-	Total amount due.
measure_id	Integer	-	Fee unit. • 1: Dollar
currency	String	A maximum of 4 characters	Currency. USD: US dollar

 Table 5-1
 AccountBalanceV2

Parameter	Туре	Value Range	Description
account_id	String	A maximum of 64 characters	Account ID.
account_type	Integer	-	Account type. 1. Balance 2: Credit 5: Bonus 7: Deposit
amount	Bigdecimal	-	Account balance.
currency	String	-	Currency. The options are as follows: USD: US dollar
designated_a mount	Bigdecimal	-	Balance of earmarked funds.

Parameter	Туре	Value Range	Description
credit_amoun t	Bigdecimal	-	Total credit limit. This field is available only for credit accounts.
measure_id	Integer	-	Measurement unit. • 1: Dollar

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
  "account_balances": [
     {
        "account_id": "AT001017264D6E9FF7",
        "account_type": 1,
        "amount": 0,
        "currency": "USD",
        "designated_amount": 0,
        "credit_amount": 0,
        "measure_id": 1
     },
{
        "account_id": "AT001017264D6EA084",
        "account_type": 5,
        "amount": 0,
"currency": "USD",
        "designated_amount": 0,
        "credit_amount": 0,
        "measure_id": 1
     }
  ],
"debt_amount": 120.0,
:du: 1
  "currency": "USD"
```

Returned Values

D NOTE

- **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
400	CBC.0100	Parameter error.
400	CBC.9900004 9	BindType cannot be resale.

HTTP Value	Error Code	Description	
403	CBC.0151	Access denied.	
500	CBC.0999	Other errors.	

6 Transaction Management

6.1 Managing Coupons

6.1.1 Querying Coupons

Function

Customers can query information about their coupons.

You can follow the instructions described in **Viewing Cash Coupons** to view coupons.

NOTE

Huawei CloudEuropean website does not provide flexi-purchase coupons or discount coupons.

Constraints

This API can be invoked using the customer AK/SK or token.

URI

GET /v2/promotions/benefits/coupons

The following table describes the parameters.

Paramete r	Manda tory	Туре	Value Range	Description
coupon_id	No	String	A maximu m of 64 character s	Coupon ID. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion.
order_id	No	String	A maximu m of 64 character s	Order ID. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion.
promotion _plan_id	No	String	A maximu m of 64 character s	Promotion plan ID. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion.
coupon_ty pe	No	Integer	[1-4]	 Coupon type. 1: Cash coupon 2: Discount coupon (reserved) 4: Flexi-purchase coupon (reserved) If this parameter is not included in the request parameters, is left empty, or is set to null, it cannot be used as a filter criterion. It cannot be set to "".
status	No	Integer	[1-5]	Customer coupon status. 1: Inactivated 2: To be used 3: Used 4: Expired 5: Withdrawn If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. NOTE For used, expired, and reclaimed coupons, data within 12 months after expiration can be queried.

Paramete r	Manda tory	Туре	Value Range	Description
active_star t_time	No	String	A maximu m of 64 character s	Activation start time. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. It cannot be set to "" or null .
active_end _time	No	String	A maximu m of 64 character s	Activation end time. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. It cannot be set to "" or null .
offset	No	Integer	0 to maximu m integer	Offset, which starts from 0. The default value is 0 . NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned. For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned. If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	[1-100]	Number of coupons queried each time. The default value is 10 .

Paramete r	Manda tory	Туре	Value Range	Description
source_id	No	String	A maximu m of 255 character s	Coupon source. If the coupon is sent by a partner, the parameter value is the partner ID. To query coupons issued by a partner, enter the partner ID.
				If this parameter is not included, is left empty, or is set to null , it cannot be used as a filter criterion. If it is set to "", it can be used as a filter criterion.

Request Message

Request Parameters

No.

Example Request

GET https://bss.myhuaweicloud.eu/v2/promotions/benefits/coupons HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response Message

Parameter	Туре	Value Range	Description
error_code	String	A maximum of 16 characters	Error code. For details, see Returned Values .
error_msg	String	A maximum of 1024 characters	Error description.
count	Integer	-	Total number of records that meet the search criteria.
user_coupon s	List <iquer yUserCoup onsResult></iquer 	-	Coupon records. For details, see Table 6-2 .

Parameter	Туре	Description	
coupon_id	String	Coupon ID.	
coupon_code	String	Coupon code.	
status	Integer	Coupon status 1: Inactivated 2: To be used 3: Used 4: Expired 5: Withdrawn 	
customer_id	String	Customer account ID.	
coupon_type	Integer	 Coupon type. 1: Cash coupon 2: Discount coupon (reserved) 4: Flexi-purchase coupon (reserved) 	
measure_id	Integer	Measurement unit. 1: Dollar	
face_value	Double	Coupon amount.	
valid_time	String	Effective time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z	
expire_time	String	Expiration time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z	
order_id	String	Order ID. NOTE If a coupon is used for multiple times, order IDs involved are separated by semicolons (;). If a coupon is used in a combined payment, order IDs involved are separated by commas (,). Example: CS1904011928GIBHC1,CS1904011928GIBHC2,CS1 904011928GIBHC3;CS1904011928GIBHCB. Not all returned orders used the coupon.	
promotion_plan _id	String	Promotion plan ID.	
plan_name	String	Promotion plan name.	
plan_desc	String	Promotion plan description.	

Table 6	2 IQueryUserCouponsResult
---------	---------------------------

Parameter	Туре	Description	
media_type	Integer	Medium type. • 1: E-coupon • 2: Paper coupon	
fetch_method	Integer	Obtaining method. 1: Claimed online 2: Redeemed online 3: Issued online 4: Obtained offline 5: Rewarded based on events 	
use_limits	List <lcouponu seLimitInfoV2></lcouponu 	Coupon usage limits. For details, see Table 6-3 .	
active_time	String	Activation time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z	
reserve_time	String	Usage time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z	
promotion_id	String	Promotion ID.	
create_time	String	Creation time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z	
coupon_version	Integer	Coupon version. • 2: Coupons can be used repeatedly.	
balance	Double	Coupon balance. Unit: USD	
lock_order_id	String	ID of the order for the coupon.	
coupon_usage	String	Coupon usage.	
is_frozen	String	Whether a coupon is frozen.0: No1: Yes	
currency	String	Currency. The options are as follows: USD	
extend_param1	String	Extended field.	

Parameter	Туре	Description	
source_id	String	Coupon source.	
		 If the coupon is sent by a partner, the parameter value is the partner ID. 	
		 If the coupon is issued for an activity, the parameter value is the activity ID. 	
		 Coupons redeemed by cloud beans: Cloud bean ID 	
		 Coupons issued as rewards of accumulated consumption: Consumption accumulation reward ID 	
		 Coupons issued as rewards for lucky draw: Lucky draw ID 	
		 Coupons issued based on events: Event ID 	
		- Customized coupons: Creator ID	

Table 6-3 ICouponUseLimitInfoV2

Parameter	Туре	Description
use_limiti_info_i d	String	Usage limit ID.
limit_key	String	Usage limit. For details about the value, see Table 6-4 .
value1	String	Value 1.
value2	String	Value 2.
value_unit	String	Value unit.
limit_type	String	Limit type.
promotion_plan _id	String	Promotion plan ID.

Table 6-4 limit_key requirements for ICouponUseLimitInfo

Кеу	Meaning	Description	Remarks
baseValue	Order amount.	value1 specifies the lower limit of the order amount, and value2 specifies the upper limit of the order amount.	Cash coupons, flexi-purchase coupons, and discount coupons are supported.

Кеу	Meaning	Description	Remarks
serviceType	Cloud service type.	Only value1 is valid. To obtain a specific cloud service type, call the API in Querying Cloud Service Types .	Cash coupons, flexi-purchase coupons, and discount coupons are supported.
regionCode	Region code.	value1 specifies the region code, and value2 specifies the region name.	Cash coupons, flexi-purchase coupons, and discount coupons are supported.
productId	Product ID	You can configure multiple product IDs. Separate them using commas (,).	Cash coupons, flexi-purchase coupons, and discount coupons are supported.
subscribeTyp e	Order type.	 Only value1 is valid. The value can be: new: Order placement renew: Order renewal change: Order change 	Cash coupons, flexi-purchase coupons, and discount coupons are supported.
firstOrderInS ervice	Restriction for the first-time purchase.	Only value1 is valid.	Cash coupons, flexi-purchase coupons, and discount coupons are supported.
cycleNum	Number of periods.	Only value1 is valid.	Cash coupons, flexi-purchase coupons, and discount coupons are supported.

Кеу	Meaning	Description	Remarks
cycleType	Trial use period type.	 0: Yearly/monthly (unlimited) 1. Yearly/monthly (yearly) 2: Yearly/monthly (monthly) 3: Yearly/monthly (daily) 4: Yearly/monthly (hourly) 5: Pay-per-use 6: General purpose 7: One-off payment 8: Reserved instance 11: Savings plan 	Cash coupons, flexi-purchase coupons, and discount coupons are supported. Discount coupons support only the yearly/ monthly mode.
simultaneou sUseWithEm powerDiscou nt	Whether cash coupons can be used together with authorized discounts.	 Whether cash coupons can be used with authorized discounts (including commercial discounts and discounts authorized by partners). 0: No 1: Yes 	Cash coupons, flexi-purchase coupons, and discount coupons are supported. The value for discount coupons can only be 0 .

Кеу	Meaning	Description	Remarks
usageTimes	Whether coupons can be used for multiple times.	 The value is specified in value1. The value can be: 0: Used for unlimited times 1: Used for only once N: Used for <i>N</i> times. (For cash coupons of the old version, <i>N</i> is fixed at 1.) 	 When CouponType is set to 2 (discount coupons), this parameter can only be set to 1, and if this parameter is not specified or is set to a non-1 value, the parameter value is 1. When CouponType is set to 1 (cash coupons) (or 4 (flexi- purchase coupons), if this parameter is not specified or is set to a value other than 0 or 1, the parameter value is 0.
isOnlyForStri ctSelected	Whether the coupons can only be used for Featured Products on KooGallery	 The value is specified in value1. The value can be: 0: No 1: Yes If there is no such restriction, the value is 0. This restriction applies only to flexi-purchase coupons. 	Flex-purchase coupons are supported.

Кеу	Meaning	Description	Remarks
isRebate	Whether coupons are counted in to the partner incentive rebates.	 The value is specified in value1. The value can be: 0: No 1: Yes This restriction applies only to flexi-purchase coupons. 	Flex-purchase coupons are supported.
serviceTypeB lackList	Service type blacklist.	Service type blacklist. The service type code is specified in value1 . This restriction applies only to flexi-purchase coupons.	Flex-purchase coupons are supported.
minConsume Discount	Minimum customer consumpti on discount.	The value is specified in value1 . The value ranges from 0 to 1 (excluding 0 and 1).	Cash coupons and flexi- purchase coupons are supported.
isForAnnualC ontracts	Whether coupons can only be used for yearly/ monthly (one-year) orders.	The value can be: • 0: No • 1: Yes	Cash coupons and discount coupons are supported.
simultaneou sUseWithPro motionProdu ct	Whether cash coupons can be used together with promotion al products.	 The value is specified in value1. The value can be: 0: No 1: Yes 	Cash coupons and discount coupons are supported.
simultaneou sUseWithPro motionDisco unt	Whether cash coupons can be used together with promotion discounts.	 The value is specified in value1. The value can be: 0: No 1: Yes 	Cash coupons are supported.

Кеу	Meaning	Description	Remarks
simultaneou sUseWithDis countCoupo n	Whether cash coupons can be used together with discount coupons.	 The value is specified in value1. The value can be: 0: No 1: Yes 	Cash coupons are supported.

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
 "count": "1",
 "user_coupons": [
  {
    "coupon_id": "CP19092406014086E3",
    "coupon_code": "CP19092406014086E3",
    "status": "2",
    "customer_id": "c9e731c4663646988ef4cdb3122837b6",
    "coupon_type": "1",
    "measure_id": "1",
"face_value": "100",
"valid_time": "2019-09-16T16:00:00Z",
    "expire_time": "2019-09-16T16:00:00Z",
    "order_id": "CS1904011928GIBHC",
    "promotion_plan_id": "promotionPlanId5322584",
    "plan_name": "532 USDCoupon name",
    "plan_desc": "532 USDCoupon desc",
    "media_type": "1",
    "fetch method": "1",
    "use_limits": [
     {
       "use_limiti_info_id": "CP19092406014086E3",
       "limit_key": "simultaneousUseWithDiscountCoupon",
       "value1": "1",
"value2": "",
       "value_unit": "",
       "limit_type": "="
       "promotion_plan_id": "promotionPlanId5322584"
     }
    ],
    "active_time": "2019-09-16T16:00:00Z",
    "reserve_time": "2019-09-16T16:00:00Z",
"promotion_id": "promotionPlanId5322584",
    "create_time": "2019-09-16T16:00:00Z",
    "coupon_version": "2",
    "balance": "100",
    "lock_order_id": "CS1904011928GIBHC",
    "coupon_usage": "170719190603338056FEH60VIRWEP",
    "is_frozen": "0",
"currency": "USD",
    "extend_param1": "2019091702368200",
    "source_id": "c9e731c4663646988ef4cdb3122837b6"
  }
]
```

}

Returned Values

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description	
400	CBC.0100	Parameter error.	
403	CBC.0151	Access denied.	
500	CBC.0999	Other errors	

6.2 Managing Yearly/Monthly Orders

6.2.1 Querying Orders

Function

After a customer purchases yearly/monthly resources, it can query the orders in different statuses, such as in the pending approval, processing, canceled, completed, and pending payment statuses.

A customer can log in to Billing Center and go to **My Orders** and select **All** for **Created On** to view all orders in pending approval, processing, canceled, completed, and pending payment statuses.

NOTE

If you want to query the resource information of a specified order, invoke this API to obtain the order ID and then invoke the API described in **Querying Customer's Yearly/Monthly Resources**. Enter the order ID in the request to query the resource information.

Constraints

This API can be invoked using the customer AK/SK or token.

URI

GET /v2/orders/customer-orders

Table	6-5	Query	parameters
-------	-----	-------	------------

Param eter	Manda tory	Туре	Value Range	Description
order_ id	No	String	A maximu m of 64 characte rs	Order ID. Order IDs are case insensitive. If this parameter is not included or is left empty, it will not be used as a filter criterion. If it is set to null , it can be used as a filter criterion. This parameter cannot be set to "". NOTE When special characters are used for query, perform the URL code conversion. For example, % should be converted to %25 .
custo mer_i d	No	String	A maximu m of 64 characte rs	Customer account ID. If this parameter is not included, it will not be used as a filter criterion. If it is set to null , it can be used as a filter criterion. This parameter cannot be set to "" or left empty.
create _time_ begin	No	String	A maximu m of 20 characte rs	Start time of order creation. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59. The span between the order creation time and end time cannot be more than1 year. If this parameter is not included or is left empty, it will not be used as a filter criterion. It cannot be set to "" or null .
create _time_ end	No	String	A maximu m of 20 characte rs	End time of order creation. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59. The span between the order creation time and the end time cannot be more than1 year. If this parameter is not included or is left empty, it will not be used as a filter criterion. It cannot be set to "" or null .

Param eter	Manda tory	Туре	Value Range	Description
service _type_ code	No	String	A maximu m of 64 characte rs	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs . Cloud service type code is case insensitive. You can call Querying Cloud Service Types to obtain a specific service type. If this parameter is not included or is left empty, it will not be used as a filter criterion. If this parameter is set to "" or null , it will be used as a filter criterion.
status	No	Integer	-	 Order status. The value can be: 1: Pending approval 3: Processing 4: Canceled 5: Completed 6: Pending payment 9: To be confirmed If this parameter is not included, is left empty, or is set to null, it will not be used as a filter criterion. It cannot be set to "".
order_ type	No	String	A maximu m of 64 characte rs	Order type. The value can be: 1: New purchase 2: Renewal 3: Change 4: Unsubscription 10: Yearly/monthly to pay-per-use 11: Pay-per-use to yearly/monthly 13: Trial 14: Commercial use 15: Price adjustment If this parameter is not included or is left empty, it will not be used as a filter criterion. It cannot be set to "" or null .
limit	No	Integer	1 to 100	Number of orders queried each time. The default value is 10 . If this parameter is not included, is left empty, or is set to null , the value 10 is used. This parameter cannot be set to "".

Param eter	Manda tory	Туре	Value Range	Description
offset	No	Integer	0 to a maximu m integer	Offset, which starts from 0. The default value is 0 . If this parameter is not included, is left empty, or is set to null , the value 0 is used. This parameter cannot be set to "". NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned. For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned. If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
order_ by	No	String	A maximu m of 36 characte rs	Sorting order of the orders. This parameter is case insensitive. You can sort the orders by creation time. If you set the value to createTime , the system sorts orders by creation time in ascending order. If you set the value to -createTime , the system sorts orders by creation time in descending order. If this parameter is not included, is left empty, or is set to "" or null , orders will be sorted by creation time in descending orders.

Param eter	Manda tory	Туре	Value Range	Description
payme nt_tim e_begi n	No	String	A maximu m of 20 characte rs	Start time of order payment. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range
				of <i>mm</i> and <i>ss</i> is 0-59. The span between the order payment start time and end time cannot be more than1 year. If this parameter is not included or is
				left empty, it will not be used as a filter criterion. It cannot be set to "" or null .
payme nt_tim e_end	nt_tim maximu	maximu m of 20 characte	End time of order payment. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z	
		rs	The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.	
			The span between the order payment start time and end time cannot be more than1 year.	
				If this parameter is not included or is left empty, it will not be used as a filter criterion. It cannot be set to "" or null .

Request

Request Parameters

None

Example Request

```
GET https://bss.myhuaweicloud.eu/v2/orders/customer-orders?
order_id=CS1905251035OA1AF&customer_id=c9e731c4663646988ef4cdb3122837b6&create_time_begin=202
0-05-06T08:05:01Z&create_time_end=2020-05-07T08:05:01Z&service_type_code=hws.service.type.obs&status
=5&order_type=1&limit=10&offset=0&order_by=-
createTime&payment_time_begin=2020-05-06T08:05:01Z&payment_time_end=2020-05-07T08:05:01Z
HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

Response

Parameter	Туре	Maximum Length	Description
error_code	String	20	Status code. For details, see Returned Values .
error_msg	String	2000	Error description.
total_count	Integer	An integer greater than or equal to 0	An integer greater than or equal to 0. Number of records that match the query conditions.
order_infos	List <custo merOrder V2></custo 	-	- Order details. For details, see Table 6-6 .

Table 6-6 CustomerOrderV2

Parameter	Туре	Maximu m Length	Description
order_id	String	64	Order ID
customer_id	String	A maximu m of 64 character s	Customer account ID.
service_type _code	String	A maximu m of 64 character s	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .
service_type _name	String	A maximu m of 200 character s	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
source_type	Integer	-	Customer order source type. The value can be: • 1. Customer • 2. Agent • 3: Contract • 4: Distributor

Parameter	Туре	Maximu m Length	Description	
status	Integer		Order status. The value can be: 1: Pending approval 2: Pending refund 3: Processing 4: Canceled 5: Completed 6: Pending payment 9: To be confirmed 10: To be shipped 11: To be received 12: Pending pick-up 13: Exchange in progress 	
order_type	Integer	-	Order type. The value can be: 1: New purchase 2: Renewal 3: Change 4: Unsubscription 10: Yearly/monthly to pay-per-use 11: Pay-per-use to yearly/monthly 13: Trial 14: Commercial use 15: Price adjustment	
official_am ount	Double	-	Order amount (list price). In the unsubscription order, this amount equals the value of amount_after_discount .	
amount_aft er_discount	Double	-	Order amount after a discount (excluding the vouchers or cards).	
measure_id	Integer	-	Order amount unit. • 1: 1 Yuan/Dollar	
create_time	String	A maximu m of 20 character s	Creation time. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.	

Parameter	Туре	Maximu m Length	Description
payment_ti me	String	A maximu m of 20 character s	Payment time. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.
currency	String	A maximu m of 4 character s	Currency code.
contract_id	String	A maximu m of 64 character s	Contract ID.
amount_inf o	nf AmountInf - oV2 Object		Order details For details, see Table 6-7 .

Table 6-7 AmountInfoV2

Parameter	Туре	Value Range	Description
discounts	List <disco untltemV2 ></disco 	-	Item For details, see Table 6-8 .
flexipurchas e_coupon_a mount	e_coupon_a		Flexi-purchase coupon amount (reserved).
coupon_am ount	Double	-	Cash coupon amount.
stored_card _amount	Double	-	Stored-value card amount (reserved).
commission _amount	Double	-	Handling fee (only for unsubscription orders).
consumed_ amount	Double	-	Consumptions (only for unsubscription orders).

Table	6-8 DiscountItemV2	
-------	--------------------	--

Parameter	Туре	Val ue Ra nge	Description
discount_ty pe	String	A ma xim um of 8 cha ract ers	 Discount type. 200: Promotion product discount 301: Promotion coupon 301: Promotion flexi-purchase coupon 500: Specified discount for agent subscription 501: Specified exemption for agent subscription 502: Specified buy-it-now price for agent subscription 600: Discount specified in the discount and rebate contract 601: Discount specified in the channel frame contract 602: Discount specified in the designated- purpose fund contract 603: Discount specified in the directly signed offline contract 604: Discount specified in the authorized telemarketing contract 605: Discount specified in the commercial contract 606: Discount specified in the channel commercial contract 607: Partner authorized discount 609: Discount for order price adjusting 610: Discount amount 700: Promotion discount 800: Top-up account discount
discount_a mount	Double	-	Discounted amount.

HTTP/1.1 200 OK Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time* {

```
"total_count": 1,
"order_infos": [
  {
     "order_id": "CS2405161952CE7IU5QmodifyJobAndPartFailJob",
      "customer_id": "0c7fd9bdfb80d4170fb1c0056128d420",
     "service_type_code": "hws.service.type.ec2",
     "service_type_name": "Elastic Cloud Server"
     "source_type": 1,
     "status": 5,
     "order_type": 1,
     "amount_after_discount": 274.6,
     "official_amount": 349.5,
     "measure id": 1,
     "create_time": "2024-05-16T11:52:10Z",
     "payment_time": "2024-05-16T12:18:35Z",
"currency": "USD",
     "contract_id": null,
      "amount_info": {
        "discounts": [
           {
              "discount_type": "700",
              "discount_amount": 69.9
           },
           {
              "discount_type": "301",
              "discount_amount": 5.0
           }
        ],
        "flexipurchase_coupon_amount": 0.0,
        "coupon_amount": 5.0,
        "stored_card_amount": 0.0,
        "commission_amount": null,
        "consumed_amount": null
     }
  }
]
```

Returned Values

NOTE

3

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description		
400	CBC.0100	Parameter error.		
400	CBC.0101	Invalid parameter.		
403	CBC.0155	Request denied.		
		The possible causes are as follows: The account authentication information is incorrect. The account or member account does not have the permission to call the API.		
500	CBC.0999	Other errors.		

6.2.2 Querying Order Details

Function

Customers can view order details on the self-built platform.

For details about how to view order details in Billing Center, see Viewing Order Details.

NOTE

If you want to query the resource information of a specified order, invoke the API described in **Querying Customer's Yearly/Monthly Resources** and enter the order ID in the request to query the resource information.

Constraints

This API can be invoked using the customer AK/SK or token.

URI

GET /v2/orders/customer-orders/details/{order_id}

The following table describes the parameters.

Table	6-9	Path	parameters
-------	-----	------	------------

Param	Mand	Value	Description
eter	atory	Range	
order_i d	Yes	A maximu m of 64 characte rs	Order ID. The system will return the orders if the orders are queried.

Parameter	Mandatory	Value Range	Description
offset	No	0 to a maximum integer	Offset, which starts from 0. The default value is 0 .
			If this parameter is not included in the request parameters, is set to "", or is set to null , the default value 0 is used.
			NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned.
	For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned.		
			If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	1 to 100	Number of records displayed per page. The default value is 10 . If this parameter is not included in the request parameters, is set to "", or is set to null , the default value 10 is used.

Table 6-10 Query parameters

Table 6-11 Message header parameter

Parameter	Manda tory	Туре	Value Range	Description
X-Language	No	String	A maximu m of 10 character s	Language. • zh_CN : Chinese • en_US : English Default value: zh_CN

Request

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/orders/customer-orders/details/CS19040119281JMYC? limit=10&offset=0 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response

Parameter	Туре	Value Range	Description
error_code	String	A maximum of 20 characters	Status code. For details, see Returned Values .
error_msg	String	A maximum of 2,000 characters	Error description.
order_info	Customer OrderEntit yV2 Object	-	Order details. For details, see Table 6-12 .
total_count	Integer	-	Order item ID array.
order_line_i tems	List <order LineItemE ntityV2></order 	-	ID of the primary order item mapping the order item. For details, see Table 6-13 .

Table 6-12 CustomerOrderEntityV2

Parameter	Туре	Maximum Length	Description
order_id	String	64	Order ID.
customer_i d	String	A maximum of 64 characters	Customer account ID.
service_typ e_code	String	-	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .

Parameter	Туре	Maximum Length	Description
service_typ e_name	String	A maximum of 200 characters	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
source_type	Integer	-	Customer order source type. The value can be: • 1. Customer • 2. Agent • 3: Contract • 4: Distributor
status	Integer	-	Order status. The value can be: 1: Pending approval 2: Pending refund 3: Processing 4: Canceled 5: Completed 6: Pending payment 9: To be confirmed 10: To be shipped 11: To be received 12: Pending pick-up 13: Exchange in progress
order_type	Integer	-	Order type. The value can be: 1: New purchase 2: Renewal 3: Change 4: Unsubscription 10: Yearly/monthly to pay-per-use 11: Pay-per-use to yearly/monthly 13: Trial 14: Commercial use 15: Price adjustment
official_am ount	Double	-	Order amount (list price). In the unsubscription order, this amount equals the value of amount_after_discount.
amount_aft er_discount	Double	-	Order amount after a discount (excluding the vouchers or cards).

Parameter	Туре	Maximum Length	Description
measure_id	Integer	-	Order amount unit. • 1: 1 Yuan/Dollar
create_time	String	A maximum of 20 characters	Creation time. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.
payment_ti me	String	A maximum of 20 characters	Payment time. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.
amount_inf o	AmountInf oV2 Object	-	Order deduction details. For details, see Table 6-14 .
currency	String	A maximum of 4 characters	Currency code.
contract_id	String	A maximum of 64 characters	Contract ID.
user_name	String	A maximum of 64 characters	 Order creator name If the order is placed by the customer, the login name of the operator who places the order is returned. If the order is placed by the operation personnel at the background, Operation personnel is returned. If the order is automatically placed by the operation system, Operation system is returned.

Parameter	Туре	Value Range	Description
order_line_i tem_id	String	A maximum of 64 characters	Order ID.
service_typ e_code	String	A maximum of 64 characters	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs.
service_typ e_name	String	A maximum of 200 characters	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
product_id	String	A maximum of 64 characters	Product ID.
product_spe c_desc	String	A maximum of 512 characters	Product specification description.
period_type	Integer	-	 Period type. The options are as follows: 0: Day 1: Week 2: Month 3: Year 4: Hour 5: One-off 6: Pay-per-use (reserved) 7: By usage report (reserved)
period_num	Integer	-	Number of periods. NOTE The value of this parameter is null for an unsubscription order.
effective_ti me	String	A maximum of 20 characters	Effective time. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.

Parameter	Туре	Value Range	Description
expire_time	String	A maximum of 20 characters	Expiration time. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z
			The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.
subscription _num	Integer	-	Number of subscriptions.
amount_aft er_discount	Double	-	Order amount after a discount (excluding the vouchers or cards).
official_am ount	Double	-	Order amount (list price). In the unsubscription order, the amount is equal to the value of currencyAfterDiscount .
amount_inf o	AmountInf oV2 Object	-	Order deduction details. For details, see Table 6-14 .
currency	String	A maximum of 4 characters	Currency code.
category_co de	String	A maximum of 64 characters	Product catalog code.
product_ow ner_service	String	A maximum of 64 characters	Type code of a cloud service. Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs . To obtain a specific service type, call the API in Querying Cloud Service Types .
commercial _resource	string	A maximum of 64 characters	Type code of a commercial resource. Resource type code. For example, the VM resource type code of ECS is hws.resource.type.vm . To obtain a specific resource type, call the API in Querying Resource Types .

Parameter	Туре	Value Range	Description
discounts	List <disco untltemV2 ></disco 	-	Fee item. For details, see Table 6-15 .
flexipurchas e_coupon_a mount	Double	-	Flexi-purchase coupon amount (reserved).
coupon_am ount	Double	-	Cash coupon amount.
stored_card _amount	Double	-	Stored-value card amount (reserved).
commission _amount	Double	-	Handling fee (only for unsubscription orders).
consumed_ amount	Double	-	Consumption amount (only for unsubscription orders).

Table 6-15 DiscountItemV2	2
---------------------------	---

Parameter	Туре	Val ue Ra nge	Description
discount_ty pe	String	A ma xim um of 8 cha ract ers	 Discount type. 200: Promotion product discount 301: Promotion coupon 301: Promotion flexi-purchase coupon 502: Promotion flexi-purchase coupon 501: Specified discount for agent subscription 501: Specified exemption for agent subscription 502: Specified buy-it-now price for agent subscription 600: Discount specified in the discount and rebate contract 601: Discount specified in the channel frame contract 602: Discount specified in the designated- purpose fund contract 603: Discount specified in the directly signed offline contract 604: Discount specified in the authorized telemarketing contract 605: Discount specified in the commercial contract 606: Discount specified in the channel frame contract 607: Partner authorized discount 609: Discount for order price adjusting 610: Discount amount 700: Promotion discount 800: Top-up account discount
discount_a mount	Double	-	Discounted amount.

HTTP/1.1 200 OK Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time* {

```
"total_count": 2,
"order_info": {
    "order_id": "CS18122203217MRPB",
   "customer_id": "982f05775ec94da390c3f174b058fb46",
   "service_type_code": "hws.service.type.obs",
   "source_type": 1,
   "status": 5,
   "order_type": 4,
    "amount_after_discount": -277.92,
   "official_amount": -277.92,
   "measure_id": 1,
"create_time": "2018-12-21T19:21:03Z",
   "payment time": null,
   "currency": "USD",
    "contract_id": null,
    "amount info": {
      "discounts": [],
      "flexipurchase_coupon_amount": null,
      "coupon_amount": null,
      "stored card amount": null,
      "commission_amount": 30.88,
      "consumed_amount": 0.0
   },
   "user_name": "h*****55"
},
"order_line_items": [
   ł
      "order_line_item_id": "CS18122203217MRPB-000001",
"service_type_code": "hws.service.type.ebs",
"product_id": "00301-01026-0--1",
      "product_spec_desc": "High I/OHigh I/O|40.0GB",
      "period_type": 3,
"period_num": null,
      "effective_time": "2018-12-21T19:21:03Z",
      "expire_time": "2019-12-22T15:59:59Z",
      "subscription_num": 1,
      "amount_after_discount": -33.12,
      "official_amount": -33.12,
      "amount_info": {
         "discounts": [],
         "flexipurchase_coupon_amount": null,
         "coupon_amount": null,
         "stored_card_amount": null,
         "commission amount": 3.68,
         "consumed_amount": 0.0
     },
"currency": "USD",
      "category_code": "hws.resource.storage1.evs",
      "product_owner_service": null,
      "commercial_resource": null
   },
   {
      "order_line_item_id": "CS18122203217MRPB-000002",
"service_type_code": "hws.service.type.ec2",
      "product_id": "00301-02019-0--1",
      "product_spec_desc": "General ComputingGeneral Computing|s2.medium.4|1vCPUs|4GB|linux",
       "period_type": 3,
      "period_num": null,
      "effective_time": "2018-12-21T19:21:03Z",
      "expire_time": "2019-12-22T15:59:59Z",
      "subscription_num": 1,
      "amount_after_discount": -244.8,
      "official_amount": -244.8,
      "amount_info": {
         "discounts": [],
         "flexipurchase_coupon_amount": null,
         "coupon_amount": null,
         "stored_card_amount": null,
         "commission_amount": 27.2,
```

```
"consumed_amount": 0.0
},
"currency": "USD",
"category_code": "hws.resource.computing.ecs",
"product_owner_service": null,
"commercial_resource": null
}
```

Returned Values

NOTE

- **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Status Code	Error Code	Description
400	CBC.0100	Incorrect parameter.
400	CBC.0101	Invalid parameter.
400	CBC.30000010	Operation not supported because the order is invalid or does not exist.
403	CBC.0155	Request denied. The possible causes are as follows: The account authentication information is incorrect. The account or member account does not have the permission to call the API.
500	CBC.0999	Other errors.

6.2.3 Querying Available Discounts of an Order

Function

A customer can query available discounts when paying an order on the self-built platform.

NOTE

No discount is available to reseller customers.

Constraints

This API can be invoked only by the customer AK/SK or token.

URI

GET /v2/orders/customer-orders/order-discounts

The following table describes the parameters.

Table 6-16 Request parameters

Parameter	Mandator y	Value Range	Description
order_id	Yes	A maximum of 64 characters	Order ID.

Request

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/orders/customer-orders/order-discounts? order_id=CS2011091132EMKL9 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximum of 20 characters	Error code. For details, see Returned Values .
error_msg	String	A maximum of 2,000 characters	Error description.
discounts	List <discou ntInfoV3></discou 	-	List of available discounts. For details, see Table 6-17 .

Parameter	Туре	Value Range	Description
discount_id	String	A maximum of 64	ID of the available order discount.
		characters	To use a discount, enter the value of this parameter when paying an order.
discount_val ue	String	-	Discount percentage or reduction. Leave this parameter empty if the discount model is set to 1 .
discount_typ e	Integer	-	Discount type. The options are as follows:
			0: promotion discount
			• 1: contract discount
			2: commercial discount
			• 3: discount granted by a partner
			 609: discount for adjusting an order price
orders	List <orderv 3></orderv 	-	List of the orders that can use discounts.
			For details, see Table 6-18 .

Table 6-18 OrderV3

Parameter	Туре	Maximum Length	Description
order_id	String	-	ID of the order that can use discounts.
order_line_it ems	List <orderli neltemV3></orderli 	A maximum of 100 items	List of the order items that can use the same discount. For details, see Table 6-19 .

Parameter	Туре	Value Range	Description
order_line_ite m_ids	n n	A maximum of 1,000	List of the IDs of the combined order items that can use the same discount.
		IDs	Order items with the same product, same specifications (for linear products), and same final price (for example, price adjustment for a featured product) will be combined.
discount_mo de	Integer	-	Available discount model of an order.
			• 0: discount
			• 1: buy-it-now price
			• 2: reduction for specific amount
discount_am ount	Number	-	Discount amount of an order, that is, the deducted amount.
discount_rati o	Number	-	Discount ratio of an order.

 Table 6-19
 OrderLineItemV3

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
   "discounts": [
     {
        "discount_id": "PDP2011260815047721TYT48G0BA02EI",
        "discount_value": "0.9",
        "discount_type": 0,
"orders": [
           {
              "order_id": "CS2011091132EMKL9",
"order_line_items": [
                 {
                    "order_line_item_ids": [
                       "CS2011091132EMKL9-000002"
                    ],
"discount_mode": 0,
                    "discount_amount": null,
                     "discount_ratio": 0.9
                 },
                 {
                     "order_line_item_ids": [
                       "CS2011091132EMKL9-000001"
                    ],
"discount_mode": 0,
                    "discount_amount": null,
                     "discount_ratio": 0.9
                 }
              1
```



Returned Values

NOTE

- **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
400	CBC.0100	Parameter error.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

6.2.4 Paying Yearly/Monthly Product Orders

Function

A customer can invoke this API to pay yearly-monthly product orders in the pending payment status.

Customers can follow the instructions described in **Payment** to pay yearly/ monthly product orders in the pending payment status in Billing Center.

NOTE

- This API supports both monthly settlement and balance payment. Monthly settlement is preferred.
- Balance payment includes cash account payment and credit account payment. If both accounts have balance, the cash account payment is preferred.
- Restrictions for using a discount and coupon at the same time:
 - If the restriction attribute of a coupon contains field **simultaneousUseWithEmpowerDiscount** with a value of **0**, the discount and coupon cannot be used at the same time.
 - If the restriction attribute of a coupon contains field **simultaneousUseWithContractDiscount** with a value of **0**, the discount and coupon cannot be used at the same time.
 - If the restriction attribute of a coupon contains field **minConsumeDiscount** and the values of **discount_ratio** for all the order items are less than the value of **minConsumeDiscount**, the discount and coupon cannot be used at the same time.
 - If the restriction attribute of a coupon contains field simultaneousUseWithPromotionDiscount with a value of **0**, the discount and coupon cannot be used at the same time.
- When this API is invoked by a unified accounting member, if their enterprise master account has coupons available for the orders, the coupons are automatically applied without the need to include coupon IDs in a request.

Constraints

This API can be invoked using the customer AK/SK or token.

URI

POST /v3/orders/customer-orders/pay

Request

Request Parameters

Paramete r	Mand atory	Туре	Maxim um Length of Charac ters	Description
order_id	Yes	String	A maxim um of 64 charact ers	Order ID. The value is the same as the order_ids value in the response message of API described in Renewing Subscription to Yearly/ Monthly Resources .

Paramete r	Mand atory	Туре	Maxim um Length of Charac ters	Description
use_coupo n	Yes	String	[YES NO]	 Whether coupons are used for order payment. If this parameter is set to YES, the coupon_infos field is mandatory. If this parameter is set to NO, the value of coupon_infos is ignored. YES: indicates that the coupons are used for payment. NO: indicates that the coupons are not used for payment.
use_disco unt	Yes	String	[YES NO]	 Whether a discount is used for the order payment. If this parameter is set to YES, the discount_infos field is mandatory. If this parameter is set to NO, the value of discount_infos is ignored. YES: indicates that the discount is used for payment. NO: indicates that the discount is not used for payment.
coupon_in fos	No	List <cou ponSimpl eInfo></cou 	A maxim um of 3 IDs are support ed.	For details, see Table 6-20 . This parameter is reserved. If use_coupon is set to YES , this parameter is mandatory. If use_coupon is set to NO , this parameter can be left empty. Otherwise, a message indicating parameter error is displayed. CAUTION When this API is invoked by a unified accounting member, if their enterprise master account has coupons available for the orders, the coupons are automatically applied without the need to include coupon IDs in a request.

Paramete r	Mand atory	Туре	Maxim um Length of Charac ters	Description
discount_i nfos	No	List <disc ountSim pleInfo></disc 	Only one discoun t ID is allowed	For details, see Table 6-21 . Discount ID list. If use_discount is set to YES , this parameter is mandatory. If use_discount is set to NO , this parameter can be left empty. Otherwise, a message indicating parameter error is displayed.

Table 6-20 CouponSimpleInfo

Paramet er	Manda tory	Туре	Maxim um Length of Charac ters	Description
id	Yes	String	A maxim um of 64 charact ers	Coupon ID.
type	Yes	Integer	[300-3 03]	 Coupon type. 300: Discount coupon (reserved) 301: Promotion coupon 302: Promotion flexi-purchase coupon (reserved) 303: Promotion stored-value card (reserved)

Paramet er	Manda tory	Туре	Maxim um Length of Charac ters	Description
id	Yes	String	A maxim um of 64 charact ers	Discount ID.
type	Yes	Integer	[0,2,3]	Discount type. • 0: promotion discount • • 2: commercial discount • 3: discount granted by a partner

Table 6-21 DiscountSimpleInfo

Example Request

```
POST https://bss.myhuaweicloud.eu/v3/orders/customer-orders/pay HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
  "use_coupon":"YES",
"use_discount":"YES",
"coupon_infos": [
     {
        "id": "CP200527025610NGSC",
         "type": 301
     }
  ],
"discount_infos": [
     {
        "id": "PDP2011260815047721TYT48G0BA02EI",
         "type": 1
     }
  ],
   "order_id": "CS20052715001E4CR"
}
```

Response

Response Parameters

Status code: 204

Success is returned by default.

Status code: 400

Parameter	Туре	Maximu m Length of Charact ers	Description	
error_code	String	A maximu m 10 character s	Error code. For details, see Returned Values .	
error_msg	String	A Error description. maximu m of 256 character s		
quota_info s	List <quotal nfo></quotal 	_	 List of the resources whose quota or capacity is insufficient. For details, see Table 6-22. This parameter is valid only when error_code is set to CBC.99003141. If the quota is insufficient, submit a service ticket on the HUAWEI CLOUD official website to increase the quota and then pay the order. If the capacity is insufficient, place an order again. If the specifications have changed, place an order again. 	
enterprise_ project_aut h_result	List <enterp riseProject></enterp 	-	Information about the enterprise project whose fund is insufficient. For details, see Table 6-23 . This parameter is valid only when error_code is set to CBC.99003155 .	

Table 6-22 QuotaInfo

Parameter	Туре	Description	
region	String	Cloud service region code, for example, eu_west_101.	
service_typ e_code	String	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .	

Parameter	Туре	Description	
resource_ty pe_code	String	Resource type code. For example, the resource type code of VM is hws.resource.type.vm .	
		The relationship between ResourceType and CloudServiceType is as follows: A resource type represents a resource contained in the cloud service type, and the cloud service type is a combination of multiple resource types.	
resource_sp ec_code	String	Resource specifications of the subscribed cloud service products.	
		For example, the resource specification of a small- scale VM is s2.small.1.linux .	
service_typ e_name	String	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .	
resource_ty pe_name	String	Resource type. For example, the resource type of ECS is Cloud Host .	
auth_result	Integer	 Verification result of the change of the cloud service quota, capacity, or specifications. 1: The quota is insufficient. 2: The capacity is insufficient. 3: The resource specifications are incorrect. This 	
		value is valid only when the resource specifications change between the time when a customer places an order and the time when the customer pays the order.	
		• 4: The associated resource information is incorrect. This value is valid only when the resource specifications change between the time when a customer places an order and the time when the customer pays the order.	
		• 99: Other errors. This value is valid only when the resource specifications change between the time when a customer places an order and the time when the customer pays the order.	
available_z one	String	AZ ID.	

Table 6-23	EnterpriseProject
------------	-------------------

Parameter	Туре	Description	
enterprise_ project_id	String	ID of the enterprise project where an order belongs.0: ID of a default project-1 or null: Non-project ID	
enterprise_ project_na me	String	Enterprise project name.	
auth_statu s	Integer	Verification result of the enterprise project's fund quota. 10: Insufficient fund quota/Invalid project 11: The organization budget quota is insufficient.	

Example Response

HTTP/1.1 204 No Content Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time*

Returned Values

D NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Status Code	Error Code	Description	
400	CBC.99000046	Insufficient budget.	
500	CBC.30000010	Operation not allowed because the order is invalid or does not exist.	
400	CBC.99003106	The order status has changed and no payment can be made.	
400	CBC.99003108	This discount cannot be used for this order.	
400	CBC.99003110	The order has not been paid before the expiration time. Please re-submit the order.	
400	CBC.99003112	The coupon or stored-value card has been used.	

HTTP Status Code	Error Code	Description	
400	CBC.99003116	The restriction to selected coupon regulates that the coupon cannot be used with the discount at the same time.	
400	CBC.99003117	The selected discount is less than the minimum discount rate configured for the selected coupon. Note: For example, if the minimum discount rate configured for a coupon is 90% and the selected discount is less than 90% in all order lines, the discount cannot be used.	
400	CBC.99003141	The cloud service quota or capacity is insufficient, or the resource specifications have changed.	
400	CBC.99003147	Discounts and cash coupons cannot be both used.	
400	CBC.99003155	The enterprise project's fund quota is insufficient, or the project is invalid.	
400	CBC.99003156	Coupons applicable to KooGallery products cannot be used together with dedicated coupons.	
400	CBC.99003162	The payment time must be earlier than the specified effective time.	
400	CBC.99003198	Insufficient budget of the organization.	
400	CBC.99005003	Insufficient balance.	
400	CBC.99006093	Failed to obtain the tax rate.	
400	CBC.7281	Renewal, unsubscription, or payment not supported. Your account has been frozen.	
400	CBC.99008040	Too many attempts.	
500	CBC.0999	Other errors.	
400	CBC.99000088	Your payment is being processed.	
400	CBC.99000089	Operation failed. Sub-orders of a combine order cannot be processed independently.	

6.2.5 Canceling Orders in the Pending Payment Status

Function

A customer can invoke this API to cancel orders in the pending payment status.

Customers can follow the instructions described in **Cancellation** to cancel yearly/ monthly product orders in the pending payment status in Billing Center.

D NOTE

Only the orders in the pending payment status can be canceled.

Constraints

This API can be invoked only by the customer AK/SK or token.

URI

PUT /v2/orders/customer-orders/cancel

Request

Request Parameters

Param eter	Manda tory	Туре	Value Range	Description
order_i d	Yes	String	A maximu m of 64 characte rs	Order ID. The value is the same as the value of order_id in the response of the API described in Querying Orders .

Example Request

PUT https://bss.myhuaweicloud.eu/v2/orders/customer-orders/cancel HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ* { "order_id": "CS170926155954NO7" }

Response

Response Parameters

Table 6-24 Response parameters

Para mete r	Туре	Value Range	Description
error_ code	String	A maximum of 10 characters	Status code. For details, see Returned Values .
error_ msg	String	A maximum of 256 characters	Error description.

Example Response

HTTP/1.1 204 No Content Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time*

Returned Values

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description	
400	CBC.0100	Parameter error.	
400	CBC.9900501 0	Orders in this state cannot be canceled.	
403	CBC.0151	Access denied.	
500	CBC.0999	Other errors.	
400	CBC.9900008 9	Operation failed. Sub-orders of a combine order cannot be processed independently.	

6.2.6 Querying the Amount of Unsubscription Orders

Function

A customer can query the resources and original orders of the unsubscription amount for an unsubscription or degrade order on the partner sales platform.

NOTE

- After you invoke the API in Unsubscribing from Yearly/Monthly Resources to generate an unsubscription order ID, you can invoke this API to query the resources and amount of an unsubscription order. For example, after you invoke the API in Unsubscribing from Yearly/Monthly Resources, you can invoke this API to query the original order ID and original subscription renewal order ID.
- You can query original order IDs for only unsubscription orders generated after May 2018.

Constraints

This API can be invoked using the AK/SK or token of the customer.

URI

GET /v2/orders/customer-orders/refund-orders

Table 6-25 Query parameters

Paramet er	Mandat ory	Туре	Value Range	Description
order_id	Yes	String	A maximum of 64 characters	ID of an unsubscription or degrade order.

Request

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/orders/customer-orders/refund-orders?order_id=CS1904190917GIBHC HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response

Response Parameters

Parameter	Туре	Description	
error_code	String	Status code. For details, see Status Code .	
error_msg	String	Error description.	
total_coun t	Integer	Total queries.	
refund_inf os	List <orderref undInfoV2></orderref 	Resource list. For details, see Table 6-26 .	

Table 6-26 OrderRefundInfoV2

Parameter	Туре	Description
id	String	Record ID.

Parameter	Туре	Description
amount	BigDecimal	 Amount. A negative number indicates the unsubscription amount. A positive number indicates the handling fee for unsubscription.
measure_id	String	Fee unit. • 1: 1 Yuan/Dollar
customer_i d	String	Customer account ID.
resource_ty pe_code	String	Resource type code. For example, the VM resource type code of ECS is hws.resource.type.vm .
service_typ e_code	String	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .
resource_ty pe_name	String	Resource type. For example, the resource type of ECS is Cloud Host .
service_typ e_name	String	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
region_cod e	String	Cloud service region code, for example, eu_west_101.
base_order _id	String	ID of the original order corresponding to the unsubscription amount, consumption amount, or unsubscription handling fee.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
    "total_count": 1,
    "refund_infos": [
        {
            "id": "ccefa7ff-****-99f5-bb25a2551217",
            "amount": -3,
            "measure_id": "1",
            "customer_id": "075a5d*******ffb75c20a82d228130",
            "resource_type_code": "hws.resource.type.volume",
            "service_type_code": "hws.resource.type.volume",
            "service_type_name": "EVS",
            "resource_type_name": "EVS",
            "region_code": "eu-west-101",
            "base_order_id": "CS2006******1F8CI"
        }
    ]
}
```

Status Code

D NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- 5xx: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
400	CBC.9900502 6	The order is not a degrade or unsubscription order.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

6.3 Managing Yearly/Monthly Resources

6.3.1 Querying Customer's Yearly/Monthly Resources

Function

A customer can query one or all yearly/monthly resources on the self-built platform.

NOTE

If you need to renew resources that already take effect after you successfully invoke this API, you can invoke the API described in **Querying the Price of a Yearly/Monthly Product** to query the price for the yearly/monthly resources and then invoke the API described in **Renewing Subscription to Yearly/Monthly Resources** to renew the subscription.

Constraints

- This API can be invoked only by the customer AK/SK or token.
- This API queries resources successfully provisioned only.
- If a parameter is set to **null**, is set to an empty JSON array, or is set to "", the specified number of resources of the current account will be returned. The number of resources is specified by the **limit** parameter, and the default value is **10**.

URI

POST /v2/orders/suscriptions/resources/query

Request

Request Parameters

Table 6-27 Request parameters

Para mete r	Manda tory	Туре	Value Range	Description
resou rce_id s	No	list <stri ng></stri 	[0-50]	Resource IDs. Queries resources with the specified resource IDs. When only_main_resource is 0 , the system queries the specified resources and their auxiliary resources. A maximum of 50 IDs can be used at the same time.
				If this parameter is not included in the request parameters, is left empty, or is set to null , it cannot be used as a filter criterion. Records that meet other search criteria are returned. NOTE A resource ID is allocated by a cloud service after the resource is provisioned, such as server_id for ECS.
order _id	No	String	A maxim um of 64 charact ers	Order ID. This parameter can be used for querying the resources in a specified order. If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion. Records that meet other search criteria are returned. NOTE When special characters are used for query, perform the URL code conversion. For example, % should be converted to %25.

Para mete r	Manda tory	Туре	Value Range	Description
only_ main _reso urce	No	o Integer	0, 1	Whether to query only the primary resources. This parameter is invalid when resource_ids are IDs of attached resources. In this case, the system queries the attached resources.
				• 0 : Queries both the primary resources and attached resources.
				• 1: Queries only the primary resources.
				The default value is 0 .
				If this parameter is not included in the request parameters or is set to null , the default value 0 is used.
				NOTE A primary resource takes the primary position in the associated resources.
				 For ECS, ECS is the primary resource, and EVS is the attached resource.
				• For VPC, if the shared bandwidth is used, the bandwidth is the primary resource, and EIPs are the attached resource. If the exclusive bandwidth is used, EIPs are the primary resources, and the bandwidth is the attached resource.
statu	No	list <int< td=""><td>[0-10]</td><td>Resource status.</td></int<>	[0-10]	Resource status.
s_list		eger>		Queries resources in a specified status. If there are multiple statuses, separate them using commas (,).
				• 2: Provisioned
				• 3: Closed
				• 4 : Frozen
				• 5 : Expired
				If this parameter is not included in the request parameters, is left empty, or is set to null , it cannot be used as a filter criterion. Resources in all statuses are returned.

Para mete r	Manda tory	Туре	Value Range	Description
offset	No	Integer	0 to 214748 3646	Offset, starting from 0 . The default value is 0 . NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned. For example, if there 10 records that meet
				 por example, in there to records that meet query conditions, when you set limit to 10 and offset to 1, the second to the tenth records are returned. If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	1 to 500	Number of records queried each time. The default value is 10 .
expir e_tim e_beg in	No	String	20	Start time of a period during which there are expired resources. The time is in the UTC format <i>yyyy-MM-dd'T'HH:mm:ss'Z'</i> , for example, 2019-05-06T08:05:01Z . The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.
				If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion. Records that meet other search criteria are returned.
expir e_tim e_end	No	String	20	End time of a period during which there are expired resources. The time is in the UTC format <i>yyyy-MM-dd'T'HH:mm:ss'Z'</i> , for example, 2019-05-06T08:05:01Z . The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.
				If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion. Records that meet other search criteria are returned.

Para mete r	Manda tory	Туре	Value Range	Description
servic e_typ e_cod e	No	String	64	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs . You can call the Querying Cloud Service Types API to query the type of a cloud service. If this parameter is not included or is set to null , it will not be used as a filter criterion. This parameter cannot be set to an empty string. There will be parameter verification.

Example Request

POST https://bss.myhuaweicloud.eu/v2/orders/suscriptions/resources/query HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
 "resource_ids":[
 "0A063A******BC8548E65D0089A905"
],
 "order_id":"CS1905251035OA***",
 "only_main_resource":1,
 "status_list":[
 2
],
 "offset":0,
 "limit":10,
 "expire_time_begin":"2021-09-01T08:05:01Z",
 "expire_time_end":"2021-09-03T08:05:01Z",
 "service_type_code": "hws.service.type.obs"
}

Response

Response Parameters

Para meter	Туре	Description
error_ code	String	Error code. For details, see Returned Values .
error_ msg	String	Error description.
data	List <orderinstan ceV2></orderinstan 	Resource list. For details, see Table 6-28 .
total_c ount	Integer	Total number of records

Table 6-28 OrderInstanceV2

	20 Ordernistancev2	
Para mete r	Туре	Description
id	String	Internal ID of the resource to be provisioned. The ID generated after the resource is provisioned is resource_id .
resou rce_id	String	Resource ID.
resou rce_n ame	String	Resource instance name.
regio n_cod e	String	Cloud service region code, for example, eu_west_101.
servic e_typ e_cod e	String	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .
resou rce_ty pe_co de	String	Resource type code. For example, the VM resource type code of ECS is hws.resource.type.vm .
resou rce_s pec_c ode	String	Specification of a cloud service resource. For example, a VM resource specification is s2.small.1.linux (.win or .linux should be added at the end of the specification).
servic e_typ e_na me	String	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
resou rce_ty pe_na me	String	Resource type. For example, the resource type of ECS is Cloud Host .
projec t_id	String	Resource project ID.
produ ct_id	String	Product ID.
paren t_reso urce_i d	String	Parent resource ID

Para mete r	Туре	Description
is_ma in_res ource	Integer	 Primary resource or not. 0: Attached resource 1: Primary resource
status	Integer	 Resource status. 2: Provisioned 3: Closed (not visible to customers) 4: Frozen 5: Expired
effect ive_ti me	String	Effective time of a resource. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z
expire _time	String	Expiration time of a resource. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z
expire _polic y	Integer	 Billing policy after a resource expires. 0: Entering the grace period upon expiration 1: Yearly/monthly to pay-per-use 2: Automatically deleted upon expiration (directly deleted from resources that take effect) 3: Automatically renewed upon expiration 4: Automatically frozen upon expiration 5: Automatically deleted upon expiration (deleted from resources in the retention period) NOTE Only 3 indicates that the resource is automatically renewed. In other cases, the expiration policy for non-automatic renewal is used.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
    "data": [
    {
        "id": "01154-54600027-0",
        "resource_id": "0A063A11905F42BC8548E65D0089A905",
        "resource_name": "0A063A11905F42BC8548E65D0089A905",
        "resource_name": "0A063A11905F42BC8548E65D0089A905name",
        "region_code": "eu-west-101",
        "service_type_code": "hws.service.type.ebs",
        "resource_type_code": "hws.resource.type.volume",
        "resource_spec_code": "SSD",
```

```
"project_id": "1dd89a5fe99e4cca80edca61e737477a",
"product_id": "2fd338aca5ae4a01aac81deaa900e441",
"parent_resource_id": "9ad02e1ad3394d1bb3da48890fbc4c06",
"is_main_resource": 1,
"status": 2,
"effective_time": "2020-05-03T09:11:10Z",
"expire_time": "2020-06-03T09:11:10Z",
"expire_policy": 0
}],
"total_count": 1
```

Returned Values

NOTE

- **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description	
400	CBC.0100	Parameter error.	
403	CBC.0151	Access denied.	
500	CBC.0999	Other errors.	

6.3.2 Renewing Subscription to Yearly/Monthly Resources

Function

A customer can renew subscription to yearly/monthly resources on the self-built platform.

When subscription to yearly/monthly resources of a customer is about to expire, the customer can renew the subscription to the resources.

Customers can follow the instructions described in **Manually Renewing a Resource** to renew the subscription to the yearly/monthly resources in Billing Center.

D NOTE

- If a primary resource has resources attached, the system renews the subscription to both the primary resource and its attached ones after this API is invoked. You can invoke **Querying Customer's Yearly/Monthly Resources** to obtain the details of the attached resources.
- If a newly purchased EVS disk is attached to an ECS, but this disk is not the attached to any of the ECS primary resources, you must invoke Querying Customer's Yearly/ Monthly Resources to obtain the details of the ECS primary resources and its attached ones.
- This API supports automatic payment. For details about how to use discounts or coupons during payment, see **Support for Discounts or Coupons**.

Constraints

This API can be invoked only by the customer AK/SK or token.

URI

POST /v2/orders/subscriptions/resources/renew

Request

Request Parameters

Para mete r	Manda tory	Туре	Value Range	Description
resou rce_id s	Yes	List <str ing></str 	[1-10]	Resource IDs. Only the primary resource ID is supported. A maximum of 10 resource IDs can be configured. To determine the primary resources, query is_main_resource in the response of the API described in Querying Customer's Yearly/Monthly Resources .
perio d_typ e	Yes	Integer	2, 3	Period type. The value can be:2: month3: year
perio d_nu m	Yes	Integer	1 to 11	Number of periods. • Month: 1 to 11 • Year: 1 to 3

Para mete r	Manda tory	Туре	Value Range	Description
expire _polic y	No	Integer	0 to 3	 Expiration policy. This field has been discarded. Do not use this field. This parameter will not take effect. 0: Entering a grace or retention period 1: Yearly/monthly to pay-per-use 2: Automatic unsubscription 3: Automatic renewal
is_aut o_pay	No	Integer	0, 1	 Whether enable automatic payment. 0: No 1: Yes If this parameter is not included or is set to null, the default value 0 is used, indicating not to enable the automatic payment. The rules for auto payment are consistent with those for auto renewal. For details about the rules for auto payment, see Auto-Renewal Rules.

Example Request

POST https://bss.myhuaweicloud.eu/v2/orders/subscriptions/resources/renew HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

```
"resource_ids": [

"96308d5efd7841b9a4dac673d84d0e14"
],
"period_type": 2,
"period_num": 1,
"expire_policy": 1,
"is_auto_pay": 0
```

Response

Response Parameters

Status code: 200

}

Table 6-29 Response body parameters

Parameter	Туре	Description
order_ids	List <string></string>	List of order IDs generated when resource subscription is renewed.

Parameter	Туре	Description
fail_resource _infos	List <failresou rceInfo></failresou 	List of resources that failed to be renewed. This parameter has a value only when there are resources that fail to be renewed. For details, see Table 6-30 . This parameter is reserved.

Table 6-30 FailResourceInfo

Parameter	Туре	Description
error_code	String	Error code. For details, see Error Codes . This parameter is reserved.
error_msg	String	Error description. This parameter is reserved.
resource_id	String	Resource ID. This parameter is reserved.

Status code: 400

Table 6-31	Response b	ody parameters
-------------------	------------	----------------

Parameter	Туре	Description
error_code	String	Status code. For details, see Returned Values .
error_msg	String	Error description.
order_ids	List <string></string>	List of order IDs generated when resource subscription is renewed.
expiredReso urcelds	List <string></string>	List of expired or non-existent resources. This parameter has a value only when the error code is CBC.99003016 .

Example Response HTTP/1.1 200 OK Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time* { "order_ids": ["CS19040119281JMYC"

"fail_resource_infos":[] }

Returned Values

D NOTE

- **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description	
400	CBC.0100	Parameter error.	
400	CBC.300100 36	Renewal is only supported for primary resources.	
400	CBC.300100 69	The renewal period does not exist.	
400	CBC.300500 06	Automatic order payment failed.	
400	CBC.990000 92	Incorrect subscription period.	
400	CBC.990031 00	This operation is not allowed because some resources are included in your orders to be paid.	
400	CBC.7281	Renewal, payment, or unsubscription not supported. Your account has been frozen.	
400	CBC.990030 16	The resources have expired and been deleted or do not exist.	
400	CBC.990031 44	You have orders in progress and cannot perform the current operation.	
400	CBC.990031 54	The sum of the existing and renewal durations has exceeded the maximum allowed. Select another renewal duration.	
400	CBC.990036 34	Resources in discount packages must be renewed as a whole and cannot be renewed together with other resources.	
403	CBC.0151	Access denied.	
500	CBC.0999	Other errors.	

6.3.3 Unsubscribing from Yearly/Monthly Resources

Function

If a customer has subscribed to a yearly/monthly resource, the customer can use this API to unsubscribe from the resource, including the renewed part and currently used part. The customer cannot use the resources after unsubscription.

Customers can follow the instructions described in **Unsubscription** to unsubscribe from the yearly/monthly resources in Billing Center.

D NOTE

- A yearly/monthly resource can be unsubscribed from only after it has been successfully paid and provisioned.
- If a primary resource has resources attached, the system cancels the subscription to both the primary resource and its attached ones after this API is invoked. You can invoke Querying Customer's Yearly/Monthly Resources to obtain the details of the attached resources.
- If a newly purchased EVS disk is attached to an ECS, but this disk is not the attached to any of the ECS primary resources, you must invoke Querying Customer's Yearly/ Monthly Resources to obtain the details of the ECS primary resources and its attached ones.
- Confirm the resource information and the refund before unsubscribing from in-use resources. After being unsubscribed from, the resources not in the recycle bin cannot be restored. If you wan to continue using these resources, unsubscribe from the subscription term renewed but not used yet.

Constraints

This API can be invoked only by the customer AK/SK or token.

URI

POST /v2/orders/subscriptions/resources/unsubscribe

Request

Request Parameters

Param eter	Manda tory	Туре	Value Range	Description
resour	Yes	List <str< td=""><td>А</td><td>Resource IDs.</td></str<>	А	Resource IDs.
ce_ids		ing>	maxi mum 10 IDs	Up to 10 resource IDs can be entered at a time. Only IDs of primary resources and child resources that are attached to primary resources are supported. The parent resource ID is required in whole-set sales scenarios.
				Determine whether a resource is a primary resource based on is_main_resource in the response of the API described in Querying Customer's Yearly/Monthly Resources .
unsub	Yes	Integer	1, 2	Unsubscription type. The value can be:
scribe_ type				 1: Unsubscribe from the resource and its renewal periods.
				• 2: Unsubscribe from only the resource renewal periods.
unsub	No	Integer	1 to 5	Unsubscription cause. The value can be:
scribe_ reason				• 1: The product is of poor usability.
_type				 2: The product functions cannot meet the requirements.
				 3: Customers do not know how to use the product, or the product operations are complex.
				• 4: Customers are not satisfied with the service.
				• 5: Others
unsub scribe_ reason	No	String	A maxi mum of 512 charac ters	Unsubscription reason, which is generally specified by the customer.

Example Request

```
POST https://bss.myhuaweicloud.eu/v2/orders/subscriptions/resources/unsubscribe HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
    "resource_ids": [
    "21e09f37c5c9420c8746ad5c71fb3aab"
],
    "unsubscribe_type": 1,
    "unsubscribe_reason_type": 5,
```

"unsubscribe_reason": "test"
}

Response

Response Parameters

Param eter	Туре	Description
error_c ode	String	Status code. For details, see Returned Values .
error_ msg	String	Error description.
order_i ds	List <string></string>	Unsubscription order IDs.
fail_re source _infos	List <failresourcel nfo></failresourcel 	List of resources that failed to be unsubscribed from. This parameter has a value only when there are resources that fail to be unsubscribed from. For details, see #api_order_00019/ table173001375312 . This parameter is reserved.

Table FailResourceInfo

Parameter	Туре	Description
error_code	String	Status code. For details, see Returned Values . This parameter is reserved.
error_msg	String	Error description. This parameter is reserved.
resource_id	String	Resource ID. This parameter is reserved.

Example Response

HTTP/1.1 200 OK Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time* { "order_ids": ["CS19040119281JMYC"], "fail_resource_infos":[] }

Returned Values

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description	
400	CBC.0100	Parameter error.	
400	CBC.300000 67	Unsubscription not supported. This resource has been deleted or the subscription to this resource has not been synchronized to CBC.	
400	CBC.990030 12	The resource ID does not exist.	
400	CBC.990031 00	This operation is not allowed because some resources are included in your orders to be paid.	
400	CBC.990031 28	The resource does not have renewed periods or the renewed periods have taken effect, and the renewal periods cannot be unsubscribed.	
400	CBC.990031 85	The associated resources of a cloud service cannot be operated independently.	
400	CBC.990036 43	For cloud services for which invoices have been issued, unsubscription is not supported.	
400	CBC.990036 47	Unsubscription not supported for this pay-per-use package.	
400	CBC.990036 49	Unsubscription not supported for cloud services in trial use.	
400	CBC.990036 52	Unsubscription is not supported for DevCloud packages.	
400	CBC.990036 54	If there is a bandwidth add-on package, you cannot unsubscribe from the renewal period.	
400	CBC.990036 56	Operation not allowed. Your resource has been frozen.	
400	CBC.990060 66	An error occurred during the query of the fee information.	
403	CBC.0151	Access denied.	
400	CBC.990036 51	Unsubscription not supported. An operation associated with this instance is in progress.	

HTTP Value	Error Code	Description
500	CBC.0999	Other errors.

6.3.4 Enabling Automatic Subscription Renewal for Yearly/ Monthly Resources

Function

A customer can use this API to enable automatic subscription renewal for its longterm yearly/monthly resources to prevent the resources from being deleted when they are expired.

Customers can follow the instructions described in **Enabling Auto-Renewal** to enable automatic subscription renewal for yearly/monthly resources in Billing Center.

- The customer can enable automatic subscription renewal only after the customer successfully pays its yearly/monthly resource order.
- For details about the yearly/monthly products supporting automatic subscription renewal, see **Auto-Renewal Rules**.
- Before invoking this API, you can invoke the API described in Querying Customer's Yearly/Monthly Resources to query the resource ID, resource expiration date, and deduction policy after the resource is expired.
- After you enable automatic subscription renewal, the fee will be deducted at 03:00 7 days before the product expiration date. Ensure that you have enough budget. If the first attempt to deduct the fee fails due to the insufficient budget, the system will continue the attempts at 03:00 every day until the fee is deducted successfully, or will retain the product resources till the last allowed day.
- The renewed period is the same as the original resource subscription period.

Constraints

This API can be invoked only by the customer AK/SK or token.

URI

POST /v2/orders/subscriptions/resources/autorenew/{resource_id}

The following table describes the parameters.

Param	Manda	Value	Description
eter	tory	Range	
resourc e_id	Yes	A maxim um of 64 charact ers	 Resource ID. You can obtain the resource ID by invoking the API described in Querying Customer's Yearly/ Monthly Resources. The attached resource IDs will be configured together when you configure primary resource IDs. For example, ECS is the primary resource, and EVS is the attached resource. If the shared bandwidth is used, the bandwidth is the primary resource, and EIPs are the attached resource. If the exclusive bandwidth is used, EIPs are the primary resources, and the bandwidth is the attached resource. If automatic renewal is enabled for the secondary resource, the primary resource will also be renewed.

Table 6-32Path parameters

Request

Request Parameters

None

Example Request

POST https://bss.myhuaweicloud.eu/v2/orders/subscriptions/resources/autorenew/ eb1cac79-773b-414b-8915-6c3eed8ddf24 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response

Response Parameters

Param eter	Туре	Description
error_c ode	String	Status code. For details, see Returned Values .
error_ msg	String	Error description.

Example Response

HTTP/1.1 204 No Content Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time*

Returned Values

D NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
400	CBC.0100	Parameter error.
400	CBC.99003012	The resource ID does not exist.
400	CBC.99003602	Automatic renewal is not supported for expired or frozen resources.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

6.3.5 Disabling Automatic Subscription Renewal for Yearly/ Monthly Resources

Function

A customer can disable automatic subscription renewal when needed. After disabling this function, the customer needs to manually renew the subscription to the resources before they expire.

Customers can follow the instructions described in **Disabling Auto-Renewal** to disable automatic subscription renewal for yearly/monthly resources in Billing Center.

D NOTE

- The prerequisite is that you have invoked the API described in **Enabling Automatic Subscription Renewal for Yearly/Monthly Resources** to enable automatic subscription renewal, or have configured the expiration policy to automatic renewal when you invoke the API described in **Renewing Subscription to Yearly/Monthly Resources**.
- Yearly/monthly resources supporting the disabling of automatic subscription renewal are same as those supporting the enabling of automatic subscription renewal.
- Before invoking this API, you can invoke the API described in Querying Customer's Yearly/Monthly Resources to query the resource ID, resource expiration date, and deduction policy after the resource is expired.

Constraints

This API can be invoked only by the customer AK/SK or token.

URI

DELETE /v2/orders/subscriptions/resources/autorenew/{resource_id}

The following table describes the parameters.

Table 6-33	Path	parameters
------------	------	------------

Para met er	Manda tory	Value Range	Description
reso urce _id	Yes	A maxim um of 64 charact ers	 Resource ID. You can obtain the resource ID by invoking the API described in Querying Customer's Yearly/Monthly Resources. The attached resource IDs will be configured together when you configure primary resource IDs. For example, ECS is the primary resource, and EVS is the attached resource. If the shared bandwidth is used, the bandwidth is the primary resource, and EIPs are the attached resource. If the exclusive bandwidth is used, EIPs are the primary resources, and the bandwidth is the attached resource.

Request

Request Parameters

None

Example Request

DELETE https://bss.myhuaweicloud.eu/v2/orders/subscriptions/resources/autorenew/ eb1cac79-773b-414b-8915-6c3eed8ddf24 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response

Para met er	Туре	Description
error _cod e	String	Status code. For details, see Returned Values .
error _msg	String	Error description.

HTTP/1.1 204 No Content Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time*

Returned Values

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
400	CBC.0100	Parameter error.
400	CBC.990030 12	The resource ID does not exist.
400	CBC.990036 05	Automatic renewal has been canceled and you cannot perform the current operation.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

6.3.6 Enabling/Canceling the Change from Yearly/Monthly to Pay-per-Use upon Expiration

Function

A customer can change the billing mode of resources from yearly/monthly to payper-use after the resources expire. The pay-per-use mode takes effect upon a yearly/monthly expiration. Customers can follow the instructions described in **From Yearly/Monthly to Payper-Use** to enable the change from yearly/monthly to pay-per-use upon expiration in Billing Center.

- The customer can enable the change from yearly/monthly to pay-per-use only after it has paid the yearly/monthly subscription.
- The billing mode of solution portfolio products cannot be changed from yearly/monthly to pay-per-use.
- Before invoking this API, you can invoke the API described in Querying Customer's Yearly/Monthly Resources to query the resource ID, resource expiration date, and deduction policy after the resource is expired.
- With the change from yearly/monthly to pay-per-use enabled, after a yearly/monthly package expires, you will be billed for subsequently used resources on a pay-per-use basis.
- To cancel the change from yearly/monthly to pay-per-use, you must enable the change by calling the API described in Enabling/Canceling the Change from Yearly/Monthly to Pay-per-Use upon Expiration or set the expiration policy to Pay-per-Use After Expiration by calling the API described in Renewing Subscription to Yearly/Monthly Resources.

REST API

This API can be invoked only by the customer AK/SK or token.

URI

POST /v2/orders/subscriptions/resources/to-on-demand

The following table describes the parameters.

Request

Request Parameters

Paramete r	Mand atory	Туре	Value Range	Description
operation	Yes	String	A maxim um of 64 charact ers	 Used to enable or cancel the change from yearly/monthly to pay-per-use. SET_UP: Enable CANCEL: Cancel

Paramete r	Mand atory	Туре	Value Range	Description
resource_i ds	Yes	list <strin g></strin 	[1-100]	Resource ID. You can obtain the resource ID by invoking the API described in Querying Customer's Yearly/ Monthly Resources. A maximum of 100 IDs of only primary resources can be set. After this parameter is set, both the primary resource and its attached resources are changed to pay-per- use resources. This field is mandatory. You can refer to parameter is_main_resource in the response of the API described in Querying Customer's Yearly/Monthly Resources to check whether the resource is primary.

Example Request

POST https://bss.myhuaweicloud.eu/v2/orders/subscriptions/resources/to-on-demand HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

{

"operation":"SET_UP",

}

"resource_ids":["0c3248018ed54b1e8e3ecbab1b0989ce"]

Response

Paramete r	Туре	Value Range	Description
error_code	String	A maximu m of 20 characte rs	Error code. For details, see Returned Values.
error_msg	String	A maximu m of 1,000 characte rs	Error description.

Paramete r	Туре	Value Range	Description
error_deta ils	List <error Detail></error 	A maximu m of 100 records	This parameter is returned when HTTP 200 is displayed. If some operations fail, only failure records are returned. If all the operations succeed, the record is empty. For details, see Table 6-34.

Table 6-34 ErrorDetail

Paramete r	Туре	Value Range	Description
id	String	A maximu m of 128 characte rs	ID of a batch processing message.
error_code	String	A maximu m of 20 characte rs	Error code. For details, see Returned Values.
error_msg	String	A maximu m of 1,000 characte rs	Error description.

Example Response

HTTP/1.1 200 OK Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time* { "error_details": []

Returned Values

D NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
400	CBC.0100	Parameter error.
400	CBC.99003609	The billing mode of this product type cannot be changed to pay-per-use.
200	CBC.99003610	The billing mode of resources in the grace or retention period cannot be changed to pay-per-use.
400	CBC.99003611	The billing mode of pay-per-usage packages cannot be changed to pay-per-use.
400	CBC.99003012	The resource ID does not exist.
400	CBC.99003622	The billing mode of solutions cannot be changed to pay-per-use.
400	CBC.99003623	Cannot be changed to the pay-per-use billing mode because there are transactions being processed.
400	CBC.99003624	Cannot be changed to the pay-per-use billing mode because the resource has been frozen due to security reasons.
400	CBC.99003626	Cannot be changed to the pay-per-use billing mode because this account has been frozen.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

6.4 Managing Resource Packages

6.4.1 Querying Resource Packages

Function

A customer can query resource packages on the self-built platform.

Customers can log in to Billing Center and go to **My packages**. Click the **Resource Packages** tab to view the list of resource packages.

Constraints

This API can be invoked only by the customer AK/SK or token.

If a resource package has expired for more than 18 months, its information cannot be queried.

URI

POST /v3/payments/free-resources/query

Table 6-35 Header parameter

Paramete	Manda	Value	Description
r	tory	Range	
X- Language	No	A maximu m of 8 characte rs	Language. • zh_CN : Chinese • en_US : English Default value: zh_CN

Request

Request Parameters

Paramete r	Manda tory	Туре	Value Range	Description
region_co de	No	String	A maximu m of 64 characte rs	Cloud service region code. If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
order_id	No	String	A maximu m of 64 characte rs	Order ID. If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
product_id	No	String	A maximu m of 64 characte rs	Resource package ID. If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.

Paramete r	Manda tory	Туре	Value Range	Description
product_n ame	No	String	A maximu m of 256 characte rs	Resource package name. If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
enterprise _project_id	No	String	A maximu m of 64 characte rs	Enterprise project ID. This parameter is mandatory if you want to query the resources of an enterprise project. If this parameter is not included in the request parameters, is set to "", or is set to null , the resources not included in the enterprise project are queried.
status	No	Integer	(0, 4)	 Status: 0: Not effective 1: In effect 2: Used up 3: Expired 4: Unsubscribed If this parameter is not included in the request parameters, is set to "", or is set to null, it cannot be used as a filter criterion.
offset	No	Integer	(0, 999999)	Offset, starting from 0 . The default value is 0 . NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned. For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned. If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.

Paramete r	Manda tory	Туре	Value Range	Description
limit	No	Integer	(1, 1000)	Number of records queried each time. The default value is 10 .
service_ty pe_code_li	No	List <stri ng></stri 	[0-10]	The ID of the cloud service type. The value is case-insensitive.
st				For example, the cloud service type code of OBS is hws.service.type.obs. You can call the Querying Cloud Service Types API to query the type of a cloud service.
				If this parameter is not included in the request, is left empty, or is set to null , it cannot be used as a filter criterion, and records that meet other search criteria are returned.

Example Request

```
POST https://bss.myhuaweicloud.eu/v3/payments/free-resources/query HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
    "region_code": "cn-north-7",
    "order_id": "CS21043011259RWXXTA",
    "product_id": "90301-296014-0--0",
    "product_name": "HUAWEI CLOUD WeLink",
    "enterprise_project_id": null,
    "status": 1,
    "offset": 0,
    "limit": 10,
    "service_type_code_list": [
        "hws.service.type.obs",
        "hws.service.type.vpc"
    ]
}
```

Response

Parameter	Туре	Value Range	Description
error_code	String	20	Error code. For details, see Returned Values . This parameter is returned only when the query failed.

Parameter	Туре	Value Range	Description
error_msg	String	1000	Error description. This parameter is returned only when the query failed.
free_resourc e_packages	List <freer esourcePac kage></freer 	-	Resource package list. For details, see Table 6-36.
total_count	Integer	-	Total number of records

 Table 6-36
 FreeResourcePackage

Parameter	Туре	Value Range	Description
order_instan ce_id	String	A maxim um of 64 charact ers	Identifier of a subscribed resource package.
order_id	String	A maxim um of 64 charact ers	Order ID. If the value of source_type is 1 , this parameter is left empty.
product_id	String	A maxim um of 64 charact ers	Resource package ID.
product_na me	String	A maxim um of 256 charact ers	Resource package name.
enterprise_pr oject_id	String	A maxim um of 64 charact ers	Enterprise project ID.

Parameter	Туре	Value Range	Description
enterprise_pr oject_scope	Integer	(0, 1)	 Enterprise projects for which resource packages are used: 0: All enterprise projects 1: Specific enterprise projects
effective_tim e	String	A maxim um of 20 charact ers	Time when a resource package is purchased. The value is in UTC format.
expire_time	String	A maxim um of 20 charact ers	Expiration time of a resource package. The value is in UTC format.
status	Integer	(0, 4)	 Status: 0: Not effective 1: In effect 2: Used up 3: Expired 4: Unsubscribed
service_type_ code	String	A maxim um of 64 charact ers	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .
service_type_ name	String	A maxim um of 200 charact ers	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
region_code	String	A maxim um of 64 charact ers	Cloud service region code.

Parameter	Туре	Value Range	Description
source_type	Integer	(0, 1)	Source of a resource package. The options are as follows: • 0: Order • 1: Gifted by DevCloud
bundle_type	String	[ATOMI C_PKG BUNDL E_PKG]	 Bundle binding type. The options are as follows: ATOMIC_PKG: Atomic package BUNDLE_PKG: Combined package
quota_reuse _mode	Integer	(1,2)	 Use model. The options are as follows: 1: Resettable Indicates that the purchased pay-per- use resource package can be reset at a specified period. For example, if you purchase a 1-year 40 GB pay-per-use resource package with quota_reuse_mode set to 1 and quota_reuse_cycle to 4, then the resource package will be reset each month (you will get 40 GB resource each month) within the year. 2: Not resettable Indicates that the purchased resource package will not be reset. For example, if you purchase a 1-year 40 GB pay-per-use resource package with quota_reuse_mode set to 2, the resource package will not be reset, and you will get 40 GB resource within the year.
free_resourc es	List <freer esource></freer 	-	For details about resource items (ID- specific) in a resource package, see Table 6-37.

Table 6-37 FreeResource

Parameter	Туре	Value Range	Description
free_resourc e_id	String	A maximu m of 64 charact ers	Resource ID. A resource package contains multiple resources, and each resource has a usage type.

Parameter	Туре	Value Range	Description
usage_type_ name	String	A maximu m of 1,024 charact ers	Usage type name.
amount	String	A maximu m of 32 charact ers	Remaining resource quota of a package whose quota_reuse_mode is Resettable , that is, the remaining resource quota in the current reset period.
original_amo unt	String	A maximu m of 32 charact ers	Original resource quota of a package whose quota_reuse_mode is Resettable , that is, the total resource quota in each reset period.
measure_id	Integer	-	Measurement unit of the quota of a free resource package. You call the API in Querying Measurement Units to obtain the value.

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
   "total_count": 1,
   "free_resource_packages": [
      {
         "order_instance_id": "01154-228300268-0",
         "order_id": "CS21043011259RWXXTA",
"product_id": "90301-296014-0--0",
         "product_name": "HUAWEI CLOUD WeLink",
         "enterprise_project_id": null,
         "enterprise_project_scope": 0,
         "effective_time": "2021-04-30T03:30:56Z",
"expire_time": "2021-05-31T15:59:59Z",
         "status": 1,
         "service_type_code": "hws.service.type.cpts",
         "region_code": "cn-north-7",
         "source_type": 0,
"bundle_type": "ATOMIC_PKG",
"quota_reuse_mode": 2,
         "free_resources": [
            {
               "free_resource_id": "d4463497-991b-439d-9ab6-23f9ed197fe9",
               "usage_type_name": "Duration",
               "amount": 100,
               "original_amount": 100,
               "measure_id": 34
           }
         1
```

}]

l

Returned Values

API Reference

NOTE

- 4xx: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Status Code	Error Code	Description
400	CBC.0100	Incorrect parameter.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

6.4.2 Viewing Resource Package Usage

Function

Customers can query the resource package usage on the self-built platform by resource.

Customers can log in to Billing center and go to My Packages. Click the Resource Packages tab, and then the resource package name to view the resource usage.

Constraints

This API can be invoked only by the customer AK/SK or token.

∧ CAUTION

If a resource package has expired for more than 18 months, its information cannot be queried.

URI

POST /v2/payments/free-resources/usages/details/query

Paramete	Manda	Value	Description
r	tory	Range	
X- Language	No	A maximu m of 8 characte rs	Language. • zh_CN : Chinese • en_US : English Default value: zh_CN

Table 6-38 Header parameter

Request

Request Parameters

Paramete r	Manda tory	Туре	Value Range	Description
free_resou rce_ids	Yes	List <stri ng></stri 	A maximu m of 100 records	List of resource item IDs. Each ID contains a maximum of 64 bytes. Resource ID. A resource package contains multiple resources, and a resource has a usage type. The resource ID is obtained from the response of the API in Querying Resource Packages.

Example Request

POST https://bss.myhuaweicloud.eu/v2/payments/free-resources/usages/details/query HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

```
{
    "free_resource_ids": [
        "d4463497-991b-439d-9ab6-23f9ed197fe9"
    ]
}
```

Response

Parameter	Туре	Maxim um Length of Charac ters	Description
error_code	String	20	Error code. For details, see Returned Values . This parameter is returned only when the query failed.
error_msg	String	1000	Error description. This parameter is returned only when the query failed.
free_resourc es	List <freer esourceDe tail></freer 	-	Resource information (resource details) in a resource package. For details, see Table 6-39 .

Table 6-39 FreeResourceDetail

Parameter	Туре	Maxim um Length of Charact ers	Description
free_resourc e_id	String	A maxim um of 64 charact ers	Resource ID. A resource package contains multiple resources, and a resource has a usage type.
free_resourc e_type_nam e	String	-	Resource type name.
quota_reuse _cycle	Integer	-	Reset period. This parameter is valid only when quota_reuse_mode is set to 1 (Resettable). • 1: Hour • 2: Day • 3: Week • 4: Month • 5: Year

Parameter	Туре	Maxim um Length of Charact ers	Description
quota_reuse _cycle_type	Integer	-	 Reset period type. This field is valid only when quota_reuse_mode is set to 1 (Resettable). 1: Reset by calendar period Indicates that the resource package is reset by calendar month or calendar year. For example, if you set quota_reuse_cycle to 4 (month) and quota_reuse_cycle_type to 1, the resource package is reset on the first day of each month. 2: Reset by order period Indicates that the resource package is reset by order period. For example, if you set quota_reuse_cycle to 4 (month), quota_reuse_cycle_to 4 (month), quota_reuse_cycle_to 2, and you purchase this resource package will be reset on the 15th day of each month.
usage_type_ name	String	-	Usage type name.
start_time	String	-	 Start time. The value is in UTC format. If quota_reuse_mode is set to 1, the value is the start time of the reset period for the current time. If quota_reuse_mode is set to 2, the value is the time when the purchased instance takes effect.
end_time	String	-	 End time. The value is in UTC format. If quota_reuse_mode is set to 1, the value is the end time of the reset period for the current time. If quota_reuse_mode is set to 2, the value is the time when the purchased instance becomes invalid.
amount	BigDecima l	-	Remaining resource quota of a package whose quota_reuse_mode is Resettable , that is, the remaining resource quota in the current reset period.

Parameter	Туре	Maxim um Length of Charact ers	Description
original_amo unt	BigDecima l	-	Original resource quota of a package whose quota_reuse_mode is Resettable , that is, the total resource quota in each reset period.
measure_id	Integer	-	Measurement unit of the quota of a free resource package. Call the API in Querying Measurement Units to obtain the value.

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
   "free_resources": [
      {
         "free_resource_id": "d4463497-991b-439d-9ab6-23f9ed197fe9",
         "free_resource_type_name": "test1",
         "quota_reuse_cycle": 4,
         "quota_reuse_cycle_type": 1,
         "usage_type_name": "Duration",
"start_time": "2021-04-30T03:30:56Z",
"end_time": "2021-05-31T15:59:59Z",
         "amount": 100,
         "original_amount": 100,
         "measure_id": 37
      }
  ]
```

Returned Values

D NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Status Code	Error Code	Description
400	CBC.0100	Incorrect parameter.

HTTP Status Code	Error Code	Description
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

6.4.3 Querying Resource Package Usage Details

Function

Customers can query the resource usage details on their self-built platform.

Constraints

This API can be invoked only by the customer AK/SK or token.

URI

GET /v2/bills/customer-bills/free-resources-usage-records

 Table 6-40 Request parameters

Paramete r	Mand atory	Туре	Value Range	Description
free_resou rce_id	No	String	A maximum of 64 characters	Resource ID. A resource package contains multiple resources, and a resource has a usage type. The resource ID is obtained from the response of the API in Querying Resource Packages . If this parameter is not included or is left empty, it will not be used as a filter criterion.
product_id	No	String	A maximum of 64 characters	Product ID, that is, resource package ID. If this parameter is not included or is left empty, it cannot be used as a filter criterion.

Paramete r	Mand atory	Туре	Value Range	Description
resource_t ype_code	No	String	A maximum of 64 characters	Resource type code. For example, the VM resource type code of ECS is hws.resource.type.vm . To obtain a specific resource type, call the API in Querying Resource Types . If this parameter is not included or is left empty, it will not be used as a filter criterion.
deduct_ti me_begin	Yes	String	A maximum of 10 characters	Start time of resources deduction, which is in <i>YYYY-</i> <i>MM-DD</i> format (GMT+08:00).
deduct_ti me_end	Yes	String	A maximum of 10 characters	End time of resource deduction, which is in <i>YYYY-MM-DD</i> format (GMT+08:00). NOTE The gap between the start time and end time must be less than or equal to 90 days.
offset	No	Integer	0 to a maximum integer	Offset, starting from 0 . The default value is 0 . NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned. For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned. If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	[1-1000]	Maximum number of records in each query. The default value is 10 .

Request

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/bills/customer-bills/free-resources-usage-records? free_resource_id=free_resource_id&product_id=product_id&resource_type_code=resource_type_code&deduct_ time_begin=2021-10-01&deduct_time_end=2021-10-31&offset=0&limit=10 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	20	Error code. For details, see Returned Values . This parameter is returned only when the query failed.
error_msg	String	1000	Error description. This parameter is returned only when the query failed.
free_resourc e_records	List <freer esourceRe cord></freer 	Maxim um number : 1000	Resource package usage details. For details, see Table 6-41 .
total_count	Integer	-	Total number of records that meet the conditions.

Table 6-41 FreeResourceRecord

Parameter	Туре	Value Range	Description
deduct_time	String	A maxim um of 20 charact ers	Time when a resource is deducted. UTC time. The format is <i>yyyy-MM-dd</i> T ' <i>HH:mm:ss</i> ' Z ', for example, 2021-10-13T10:01:49Z.

Parameter	Туре	Value Range	Description
free_resourc e_id	String	A maxim um of 64 charact ers	Resource ID. A resource package contains multiple resources, and a resource has a usage type.
resource_id	String	A maxim um of 64 charact ers	Resource ID.
resource_typ e_code	String	A maxim um of 64 charact ers	Resource type code. For example, the resource type code of VM is hws.resource.type.vm .
resource_typ e_name	String	A maxim um of 200 charact ers	Resource type. For example, the resource type of ECS is Cloud Host .
resource_tag	String	A maxim um of 10,240 charact ers	Resource tag.
product_id	String	A maxim um of 64 charact ers	Product ID, that is, resource package ID.
product_na me	String	A maxim um of 256 charact ers	Product name, that is, resource package name.

Parameter	Туре	Value Range	Description
usage_type_ code	String	A maxim um of 64 charact ers	Usage type
available_am ount	String	A maxim um of 64 charact ers	Available resources before deduction
remaining_a mount	String	A maxim um of 64 charact ers	Available resources after deduction.
used_amoun t	String	A maxim um of 64 charact ers.	Deducted resource amount.
measure_id	Integer	-	Measurement unit of the quota of a free resource package. Call the API in Querying Measurement Units to obtain the value.
effective_tim e	String	A maxim um of 20 charact ers	Start time of using a resource (UTC time).
expire_time	String	A maxim um of 20 charact ers	End time of resource usage (UTC time).

HTTP/1.1 200 OK Content-Type: application/json;charset=UTF-8

```
Content-Length: length
Date: response time
  "free_resource_records": [
     {
        "deduct_time": "2021-10-19T08:04:25Z",
        "free_resource_id": "43248428-8409-47cd-b115-6a5872e2200b",
        "resource_id": "resourceInstanceId_north1_obs_10120001112",
        "resource_type_code": "",
        "resource_tag": "--"
        "product_id": "90301-247012-0--0",
        "product_name": "OBS storage package 10 TB Monthly subscription Beijing7",
        "usage_type_code": "",
        "available_amount": "10190",
        "remaining_amount": "10140",
"used_amount": "50",
        "measure_id": 10,
        "effective_time": "2021-10-13T10:01:49Z",
        "expire_time": "2021-10-13T11:00:00Z"
     }
  ],
   "total_count": 1
```

Returned Values

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*. This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Status Code	Error Code	Description
400	CBC.0100	Incorrect parameter.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

7 Managing Bills

7.1 Querying Summary Bills

Function

This API can be used to query the expenditure summary bills of a customer on the self-built platform. The bills summarize the summary data by month.

Postpaid customers who have enabled the monthly settlement can log in to Billing Center to query their expenditure summary bills by referring to **here**.

You can query data from the past three years.

Constraints

- This API can be invoked using the customer AK/SK or token only.
- If cloud_service_type_code is not specified in the request, the obtained bill is the monthly expenditure bill generated by cloud service type. That is, the total number of records (total_count) is calculated by cloud service type. Each record contains the expenditure summary of a cloud service type. In this case, resource_type_code in the response is null.
- If cloud_service_type_code is specified in the request, the obtained bill is the monthly expenditure bill generated by resource type for a cloud service. That is, the total number of records (total_count) is calculated by resource type. Each record contains the expenditure summary of a resource type for the cloud service. In this case, resource_type_code in the response is the resource type.

URI

GET /v1.0/{domain_id}/customer/account-mgr/bill/monthly-sum

The following table describes the parameters.

Table 7-1 Path parameters

Parameter	Manda tory	Maximum Length	Description
domain_id	Yes	64	Customer account ID.

Table 7-2 Query parameters

Parameter	Manda tory	Туре	Maximum Length	Description
cycle	Yes	String	10	Billing cycle of the expenditure summary bill, which is in YYYY-MM format (GMT+08:00).
cloud_service _type_code	No	String	256	 Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs. To obtain a specific service type, call the API in Querying Cloud Service Types. If this parameter is not specified, the obtained bill is a monthly expenditure bill generated by cloud service. If this parameter is not specified, the obtained bill is a monthly expenditure bill generated by cloud service. If this parameter is not specified, the obtained bill is a monthly expenditure bill generated by resource type of a cloud service.

Parameter	Manda tory	Туре	Maximum Length	Description
type	No	String	[0 1]	 0: HUAWEI CLOUD account 1: Account for which the partner set a budget. This type of account is available only when a customer is associated with a partner in the reseller model. If this parameter is not specified, the expenditure summary of the HUAWEI CLOUD account is queried by default. This parameter cannot be left empty or set to "" or null.
enterprisePro jectId	No	String	-	 Enterprise project ID. 0: ID of a default project -1: The service does not support enterprise project management. If this parameter is not included or is left empty, it cannot be used as a filter criterion. If this parameter is set to null, it cannot be used as a filter criterion. This parameter cannot be set to "".

Request Message

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v1.0/*{domain_id}*/customer/account-mgr/bill/monthly-sum? cycle=2018-05&type=0 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response Message

Parameter	Туре	Description
error_code	String	Status code. For details, see Status Code.
		This parameter is returned only when a failure occurs.
error_msg	String	Error description.
		This parameter is returned only when a failure occurs.
currency	String	Currency. USD
		If the parameter is left blank, USD is used.
total_count	Integer	Number of the total records. The value must be greater than or equal to 0 .
bill_sums	List <billsumrecordin fo></billsumrecordin 	Record information. For details, see Table 7-3 .
total_amount	Bigdecimal	Total amount (tax included).
debt_amount	Bigdecimal	Total debt.
coupon_amou nt	Bigdecimal	Cash coupon amount.
cashcoupon_a mount	Bigdecimal	Flexi-purchase coupon amount (reserved).
storedcard_a mount	Bigdecimal	Stored-value card amount (reserved).
debit_amount	Bigdecimal	Balance in the cash account.
credit_amoun t	Bigdecimal	Balance in the credit account.
measure_id	Integer	Unit.
		1: Yuan/Dollar3: Fen/Cent

 Table 7-3
 BillSumRecordInfo

Parameter	Туре	Description
customer_id	String	Customer account ID.

Parameter	Туре	Description
resource_type _code	String	Resource type code. For example, the resource type code of ECS is hws.resource.type.vm. NOTE If the request does not contain the cloud_service_type_code parameter, the value null is returned.
region_code	String	Cloud service region. This parameter is reserved.
cloud_service_ type_code	String	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .
consume_tim e	String	Expenditure data collection period. GMT+08:00 and format: YYYY-MM Example: 2018-05
pay_method	String	 Expenditure type. If the request does not contain the parameter, cloud_service_type_code, and value 0 is returned, all resources of the service are billed in yearly/monthly mode. If value 1 is returned, all resources are billed in pay-per-use mode. If value 4 is returned, all resources are billed in savings plansubscription mode. If the value 5 is returned, all resources are billed in savings plan-hourly billing mode. If value 6 is returned, all resources are billed in savings plan-discount mode. If an empty string is returned, all resources are billed in other-expenses mode. If the request contains the parameter, cloud_service_type_code, and value 0 is returned, all resources of the service are billed in yearly/monthly mode. If value 1 is returned, all resources are billed in savings plan-burly billing mothe. If value 5 is returned, all resources of the service are billed in yearly/monthly mode. If value 1 is returned, all resources are billed in pay-per-use mode. If value 4 is returned, all resources are billed in pay-per-use mode. If value 4 is returned, all resources are billed in savings plansubscription mode. If the value 5 is returned, all resources are billed in savings plansubscription mode. If the value 5 is returned, all resources are billed in savings plansubscription mode. If the value 5 is returned, all resources are billed in savings plansubscription mode. If the value 5 is returned, all resources are billed in savings plansubscription mode. If walue 6 is returned, all resources are billed in savings plansubscription mode. If walue 6 is returned, all resources are billed in savings plansubscription mode. If walue 6 is returned, all resources are billed in savings plansubscription mode. If walue 6 is returned, all resources are billed in savings plansubscription mode. If walue 6 is returned, all resources are billed in savings plansubscription mode. If walue 6 is returned, all resources are billed in savings plansubscription mode. If walue 6 is returned, all resources ar

Parameter	Туре	Description
consume_am ount	Bigdecimal	Consumption amount, that is, the amount deducted from the customer's account. It includes the amount paid using cash coupons.
debt	Bigdecimal	Outstanding amount, that is, the amount due generated when fees are deducted from the customer account and the account balance is insufficient.
discount	Bigdecimal	Discounted amount.
measure_id	Integer	Unit. • 1: Yuan/Dollar • 3: Fen/Cent
bill_type	Integer	Bill type.0: Expenditure1: Unsubscription
account_detai ls	List <balancetypepay ></balancetypepay 	Total payment amount distinguished by expenditure type and payment method of an account. For details, see Table 7-4 .
discount_deta il_infos	List <discountdetailin fo></discountdetailin 	Discounted amount details. For details, see Table 7-5 . This parameter is not returned when bill_type is 1 .
enterpriseProj ectld	String	 Enterprise project ID. 0: ID of a default project null: The service does not support enterprise project management. If enterpriseProjectId is specified in the request, the bill_sums value in the response is the records by enterprise project ID.

Table 7	- 4 Bala	anceTy	pePay
---------	-----------------	--------	-------

Parameter	Туре	Description
balance_type_ id	String	 Account type. BALANCE_TYPE_DEBIT: Cash account BALANCE_TYPE_CREDIT: Credit account BALANCE_TYPE_BONUS: Bonus account (already offline) BALANCE_TYPE_COUPON: Cash coupon account BALANCE_TYPE_DEBIT_RATE: Discount account
deduct_amou nt	Bigdecimal	Deducted amount. Unit.

Parameter	Туре	Description
promotion_ty	String	Discount type.
ре		500: Specified discount for agent subscription
		501: Specified exemption for agent subscription
		502: Specified buy-it-now price for agent subscription
		600: Contract discount rebate (commercial discount)
		601: Discount specified in the channel frame contract
		602: Discount specified in the designated-purpose fund contract (special commercial contract discount)
		603: Discount specified in the directly signed offline contract
		604: Discount specified in the authorized telemarketing contract
		605: Discount specified in the commercial contract
		606: Discount specified in the channel commercial contract
		607: Partner authorized discount
		608: Featured product discount
		610: Discount amount
		700: Promotion discount (for promotion, available only in yearly/ monthly billing scenarios)
		800: Bonus
discount_amo unt	BigDecimal	Discounted amount.
promotion_id	String	Discount type ID. It can be a contract ID or a commerce ID.
measure_id	Integer	Unit.
_		• 1: Yuan/Dollar
		• 3: Fen/Cent
		The default value is 3 .

 Table 7-5
 DiscountDetailInfo

HTTP/1.1 200 OK

Content-Type: application/json;charset=UTF-8

```
Content-Length: length
Date: response time
  "error_code": "CBC.0000",
"error_msg": "success",
"currency": "USD",
  "total_count": 1,
  "total_amount": 10212,
  "debt_amount": 56,
  "coupon_amount": 0,
  "cashcoupon_amount": 0,
  "storedcard_amount": 0,
  "debit amount": 10156,
  "credit_amount": 0,
  "measure_id": 3,
  "bill_sums": [
     {
        "customer_id": "7b47a4c7ec764e1a94c5c2eb1a578e77",
        "resource_type_code": "",
        "region_code": null,
        "cloud_service_type_code": "hws.service.type.ebs",
"consume_time": "2019-12",
"pay_method": "",
        "consume_amount": 10212,
        "debt": 56,
"discount": 0,
        "measure_id": 3,
        "bill_type": 0,
        "account_details": [
           {
              "balance_type_id": "BALANCE_TYPE_DEBIT",
              "deduct_amount": 10156
           },
           {
              "balance_type_id": "BALANCE_TYPE_CREDIT",
              "deduct_amount": 0
           },
           {
              "balance_type_id": "BALANCE_TYPE_BONUS",
              "deduct_amount": 0
          },
           {
              "balance_type_id": "BALANCE_TYPE_COUPON",
             "deduct_amount": 0
           },
           {
              "balance_type_id": "BALANCE_TYPE_DEBIT_RATE",
             "deduct_amount": 0
          },
           {
              "balance_type_id": "BALANCE_TYPE_FOREGIFT",
              "deduct_amount": 0
           },
           {
             "balance_type_id": "BALANCE_TYPE_BE_AVAILABLE",
              "deduct_amount": 0
           },
           {
              "balance_type_id": "BALANCE_TYPE_OTHER",
              "deduct_amount": 0
           },
           {
              "balance_type_id": "BALANCE_TYPE_RCASH_COUPON",
              "deduct_amount": 0
           },
              "balance_type_id": "WRITEOFFDEBT",
              "deduct_amount": 0
           },
```

Status Code

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

Status Code	Description
CBC.0000	Success.
CBC.0999	Other errors.
CBC.0151	Access denied.
CBC.0100	Parameter error.
CBC.0154	Token authentication failed.

7.2 Viewing Resource Usage Details

Function

This API can be used to query usage details of each resource for a customer on the self-built platform.

Postpaid customers who have enabled the monthly settlement can log in to Billing Center to query their resource usage details by referring to **Resource Bill**.

NOTE

- After a customer associates with an enterprise master in the unified accounting model, bill queries will return both bills before and after the association.
- You can query data from the past three years.

Constraints

This API can be invoked only by the customer AK/SK or token.

URI

POST /v2/bills/customer-bills/res-records/query

Table 7-6 Header parameters

Paramet er	Man dato ry	Maximum Length	Description
X- Languag e	No	10	Language. • zh_CN : Chinese
			• en_US : English The default value is en_US.

Request Message

Request Parameters

Parameter	Manda tory	Туре	Maximu m Length	Description
cycle	Yes	String	8	Billing cycle of the queried resource usage details, which is in YYYY-MM format (GMT +08:00). Example: 2019-01
cloud_service _type	No	String	64	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs . To obtain a specific service type, call the API in Querying Cloud Service Types . If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.

Parameter	Manda tory	Туре	Maximu m Length	Description
resource_typ e	No	String	64	Resource type code. For example, the VM resource type code of ECS is hws.resource.type.vm . To obtain a specific resource type, call the API in Querying Resource Types . If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
region	No	String	64	Cloud service region code, for example, eu-west-101. If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
res_instance_i d	No	String	64	Resource instance ID. If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
charge_mode	No	Integer	_	 Billing mode. The options are as follows: 1: Yearly/monthly 3: Pay-per-use 10: Reserved instances If this parameter is not included in the request parameters or is set to null, usage details of resources of all billing modes are returned.

Parameter	Manda tory	Туре	Maximu m Length	Description
bill_type	No	Integer		 Bill type: 1: expenditure-purchase 2: expenditure-renewal 3: expenditure-change 4: refund-unsubscription 5: expenditure-use 8: expenditure-auto-renewal 9: adjustment-compensation 14: expenditure-month-end deduction for support plan 15: expenditure-tax 16: adjustment-deduction 17: expenditure-difference amount (min. guaranteed-actual) NOTE Expenditure-difference amount (min. guaranteed-actual) determines the fees that a customer needs to pay if the customer does not reach the minimum expenditure limit stipulated in the signed contract. This rule is applicable to direct sales customers and referral customers who use postpaid method. 20: refund-change 24: refund-changing to Pay-Per-Use 100: refund-unsubscription tax 101: adjustment-tax deduction I 102: adjustment-tax deduction If this parameter is not included in the request parameters or is set to null, usage details of resources of all bill types are returned.

Parameter	Manda tory	Туре	Maximu m Length	Description
enterprise_pr	No	String	64	Enterprise project ID.
oject_id				0: ID of a default project
				 – 1: The service does not support enterprise project management.
				If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
include_zero_ record	No	Boolean	-	Whether to return records for which the amount due is 0.
				• true: Yes
				• false: No
				If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
method	No	String	64	Query method.
				 oneself: Query the resource usage details of an enterprise itself.
				 sub_customer: Query the resource usage details of enterprise's sub-customers.
				 all: Query the resource usage details of an enterprise and its sub- customers.
				If this parameter is not included in the request parameters, is set to "", or is set to null , the default value is all . If this parameter is set to all and an enterprise has no customers, the enterprise queries its own resource usage details.

Parameter	Manda tory	Туре	Maximu m Length	Description
sub_custome r_id	No	String	64	 Enterprise member account ID. NOTE This parameter is invalid if method is not set to sub_customer. If method is set to sub_customer, this parameter must be specified.
offset	No	Integer	0- Maximu m integer	Offset, which starts from 0. The default value is 0 . NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned. For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned. If there are 20 records that meet query conditions, when you set offset to 1 offset to 1 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	[1-1000]	Page limit. The default value is 10 .
statistic_type	No	Integer	[1-2]	 Statistics type. The default value is 1. 1: By billing cycle 2: By day If this parameter is not included in the request parameters or is set to null, the default value 1 is used. It cannot be set to "".

Parameter	Manda tory	Туре	Maximu m Length	Description
query_type	No	String	[0-9]	Type of information to be queried. The default value is BILLCYCLE . • BILLCYCLE: By month • DAILY: By day The information type, DAILY, is returned only when the statistic_type is set to 2 . If this parameter is not included in the request or is set to null or "", the information type, BILLCYCLE, is returned by default.
bill_cycle_beg in	No	String	[0-10]	 The start time of a billing cycle. Format: YYYY-MM-DD. This parameter is mandatory when query_type is set to DAILY. If this parameter is not included in the request or is set to null or "", it cannot be used as a filter criterion. NOTE This parameter is invalid if query_type is not set to DAILY. If query_type is set to DAILY. If query_type is set to DAILY. If query_type is set to DAILY.
bill_cycle_end	No	String	[0-10]	The end time of a billing cycle. Format: YYYY-MM-DD. This parameter is mandatory when query_type is set to DAILY. If this parameter is not included in the request or is set to null or "", it cannot be used as a filter criterion. NOTE • This parameter is invalid if query_type is not set to DAILY . • If query_type is set to DAILY . • If query_type is set to DAILY . • If query_type is set to DAILY .

Example Request

```
POST https://bss.myhuaweicloud.eu/v2/bills/customer-bills/res-records/query HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
X-Language:en_US
{
    "cycle": "2018-12",
"cloud_service_type": "hws.service.type.ec2",
    "resource_type": "hws.resource.type.vm",
    "region": "eu-west-101",
"res_instance_id": "76****7f",
    "charge_mode": 1,
    "bill_type": 1,
    "enterprise_project_id": "6***f3-3**4-4**2-9a3e-a****c24",
"include_zero_record": "true",
     "method": "sub_customer",
     "sub_customer_id": "05b5fef62300d2ad0f98c00befba72c0",
    "offset": 1,
    "limit": 10
}
```

Response Message

Response Parameters

Parameter	Туре	Maximum Length	Description
error_code	String	16	Status code. For details, see Status Code . This parameter is returned only when a failure occurs.
error_msg	String	1024	Error description. This parameter is returned only when a failure occurs.
monthly_recor ds	List <monthly BillRes></monthly 	-	Resource records. For details, see Table 7-7 .
total_count	Integer	-	Number of result sets. This parameter is returned only when the query is successful.
currency	String	3	Currency. USD

Table 7-7 MonthlyBillRes

Parameter	Туре	Maximum Length	Description
cycle	String	8	Billing cycle of resource data, which is in YYYY-MM format (GMT+08:00). Example: 2020-01
bill_date	String	10	Consumption date, which is in the YYYY-MM-DD format (GMT +08:00)
			NOTE This parameter has a value only when statistic_type is set to 2 . Otherwise, null is returned.

Parameter	Туре	Maximum Length	Description
Parameter bill_type	Type Integer		Bill type.1: expenditure-purchase2: expenditure-renewal3: expenditure-renewal3: expenditure-change4: refund-unsubscription5: expenditure-use8: expenditure-auto-renewal9: adjustment-compensation14: expenditure-month-end deduction for support plan15: expenditure-tax16: adjustment-deduction17: expenditure-difference
			 amount (min. guaranteed-actual) NOTE Expenditure-difference amount (min. guaranteed-actual) determines the fees that a customer needs to pay if the customer does not reach the minimum expenditure limit stipulated in the signed contract. This rule is applicable to direct sales customers and referral customers who use postpaid method. 20: refund-change
			 20. refund-changing to Pay- Per-Use 100: refund-unsubscription tax 101: adjustment-tax compensation 102: adjustment-tax deduction

Parameter	Туре	Maximum Length	Description
customer_id	String	64	ID of the account that has consumption records.
			• If a common account or enterprise member account is used to query consumption records, only the ID of the customer itself is displayed.
			• If an enterprise master account is used to query consumption records, the consumption records of its own and its member accounts can be queried. The ID of a master or member account will be displayed.
region	String	64	Cloud service region code, for example, eu-west-101.
region_name	String	64	Region name, for example, EU- Ireland
cloud_service_ type	String	256	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .
resource_Type _code	String	64	Resource type code. For example, the resource type code of ECS is hws.resource.type.vm .
cloud_service_ type_name	String	200	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
resource_type_ name	String	200	Resource type. For example, the resource type of ECS is Cloud Host .
res_instance_i d	String	256	Resource instance ID.
resource_nam e	String	-	Resource name. When creating a resource, a customer can enter the resource name. Some resource names can also be changed during resource management.
root_resource_ id	String	-	Root resource ID

Parameter	Туре	Maximum Length	Description
parent_resourc e_id	String	-	Parent resource ID
resource_tag	String	-	Resource tag. Customers can set tags when managing resources.
sku_code	String	64	SKU code, which uniquely identifies the resource specification in a bill.
enterprise_pro ject_id	String	-	 Enterprise project ID. 0: ID of a default project null: The service does not support enterprise project management.
enterprise_pro ject_name	String	-	Enterprise project name.
charge_mode	Integer	-	 Billing mode. The options are as follows: 1: Yearly/monthly 3: Pay-per-use 10: Reserved instances
consume_amo unt	BigDecimal	-	Consumption amount of a cloud service, including the amount of cash coupons and that of flexi- purchase coupons, accurate to eight decimal places. NOTE The value of consume_amount is equal to the sum of the values of cash_amount , credit_amount , coupon_amount , flexipurchase_coupon_amount , stored_card_amount , bonus_amount , debt_amount , and adjustment_amount .
cash_amount	BigDecimal	-	Amount paid in cash.
credit_amount	BigDecimal	-	Amount paid using the credit.
coupon_amou nt	BigDecimal	-	Amount paid using the cash coupon.
flexipurchase_ coupon_amou nt	BigDecimal	-	Amount paid using the flexi- purchase coupon.

Parameter	Туре	Maximum Length	Description
stored_card_a mount	BigDecimal	-	Amount paid using the values- stored card.
bonus_amoun t	BigDecimal	-	Bonus payment amount (used for the bonus that is not cleared on the live network).
debt_amount	BigDecimal	-	Monthly-paid user: monthly settlement (For details about monthly settlement, click here.) Non-monthly-paid subscriber: outstanding amount
adjustment_a mount	BigDecimal	-	Adjustment amount.
official_amou nt	BigDecimal	-	Standard price.
discount_amo unt	BigDecimal	-	Discount amount (based on the standard price).
measure_id	Integer	-	Unit. • 1: Yuan/Dollar
period_type	Integer	-	 Period type. The value can be: 19: Year 20: Month 24: Day 25: Hour 5: One-off
trade_id	String	-	 Order ID or transaction ID. If the value of bill_type is 1, 2, 3, 4, or 8, this field indicates the order ID. In other scenarios, it indicates the transaction ID (this parameter represents bills when fees are deducted at the end of a month. Otherwise, this parameter represents receivables.)
id	String	256	Unique ID. This parameter is reserved.
product_spec_ desc	String	-	Product specification description.

Parameter	Туре	Maximum Length	Description
sub_service_ty pe_code	String	64	Service type code of a child service that is attached to an ECS.
sub_service_ty pe_name	String	200	Service type of a child service that is attached to an ECS.
sub_resource_t ype_code	String	64	Resource type code of a child resource that is attached to an ECS.
sub_resource_t ype_name	String	200	Resource type name of a child resource that is attached to an ECS.
sub_resource_i d	String	64	Resource ID of a child resource that is attached to an ECS. If the resource is a reserved instance, this parameter indicates a reserved instance ID.
sub_resource_ name	String	256	Resource name of a child resource that is attached to an ECS. If the resource is a reserved instance, this parameter indicates a reserved instance name.
pre_order_id	String	64	Original order ID
az_code_infos	List <azcodel nfo></azcodel 	-	AZ information list For details, see Table 7-8 .

Table 7-8 AzCodeInfo

Parameter	Туре	Maximum Value Length	Description
az_code	String	64	AZ code

Example Response

HTTP/1.1 200 OK Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time* { "monthly_records": [{ "cycle": "2022-05", "bill_date": null,

```
"bill_type": 4,
   "customer_id": "05f2*****00d50d0f2bc002c46e3020",
   "region": "eu-west-101",
  "region_name": "EU-Ireland",
"cloud_service_type": "hws.service.type.ebs",
   "resource_Type_code": "hws.resource.type.volume",
        "cloud_service_type_name": "Elastic Volume Service",
  "resource_type_name": "Elastic Volume Service",
"res_instance_id": "220523_dbc6ee4a02964e04adaa0e01b7a1e8e4",
   "resource_name": "hws.resource.type.volumename",
  "resource_tag": null,
"sku_code": "SATA",
   "enterprise_project_id": null,
        "enterprise_project_name": "Non-project"
   "charge_mode": 1,
   "consume_amount": 0.0,
   "cash_amount": 0.0,
   "credit_amount": 0.0,
   "coupon_amount": 0.0,
   "flexipurchase_coupon_amount": 0.0,
   "stored_card_amount": 0.0,
   "bonus_amount": 0.0,
   "debt_amount": 0.0,
   "adjustment_amount": null,
   "official_amount": 0.0,
   "discount_amount": 0,
   "id": "037e8a2b*****01-5f9eb5153cba_1",
   "measure_id": 1,
         "sub_service_type_code": null,
         "sub_service_type_name": null,
         "sub_resource_type_code": null,
         "sub_resource_type_name": null,
         "sub_resource_id": null,
         "sub_resource_name": null,
   "period_type": 20,
   "root_resource_id": null,
   "parent_resource_id": null,
   "trade_id": "CSYD*****214V3CC02",
  "product_spec_desc": "Common I/O|200GB",
"pre_order_id": "CS23*****54B1AEW4J",
   "az_code_infos": [{
      "az_code": "cn-north-1c"
  }]
}],
"total_count": 7,
"currency": "USD"
```

Status Code

D NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description	
400	CBC.0100	Parameter error.	
403	CBC.0151	Access denied.	

HTTP Value	Error Code	Description
500	CBC.0999	Unknown error occurred.

7.3 Viewing Resource Expenditures

Function

This API can be used to query expenditures of each resource for a customer on the self-built platform.

Postpaid customers who have enabled the monthly settlement can log in to Billing Center to query their resource usage details by referring to **Resource Bill**.

NOTE

• You can query data from the past three years.

Constraints

- This API can be invoked using the customer AK/SK or token only.
- This API can be used to query resource expenditure records generated in the same month.
- The data queried for the current month cannot be used for reconciliation. The final bill of the current month can be viewed and exported after 10:00 on the fourth day of the following month. Situations, such as, bill delay, refunds, bill adjustment, and outstanding amount write-off, may occur during a month.

URI

GET /v2/bills/customer-bills/res-fee-records

The following table describes the parameters.

	landa Typ	e Maximu	Description
	ory	m Length	
X-Language No	lo Stri	ng 10	Language. en_US: English zh_CN: Chinese

Table 7-9 Message header parameter

Table 7-10) Request	parameters
------------	-----------	------------

Parameter	Manda tory	Туре	Maximu m Length	Description
cycle	Yes	String	10	Billing cycle of the queried resource consumption records, which is in YYYY-MM format (GMT+08:00).
charge_mode	No	String	4	Billing mode. The options are as follows:1: Yearly/monthly3: Pay-per-use
				• 10: Reserved instances If this parameter is not included in the request parameters, it cannot be used as a filter criterion. It cannot be left empty or set to "" or null .
cloud_service _type	No	String	64	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs . To obtain a specific service type, call the API in Querying Cloud Service Types . If this parameter is not included in the request parameters, it cannot be used as a filter criterion. If this parameter is left empty or is set to "", it can be used as a filter criterion.
region	No	String	64	Cloud service region code, for example, eu-west-101. If this parameter is not included in the request parameters, it cannot be used as a filter criterion. If this parameter is left empty or is set to "", it can be used as a filter criterion.

Parameter	Manda tory	Туре	Maximu m Length	Description
bill_type	No	Integer		 Bill type. 1: expenditure-purchase 2: expenditure-renewal 3: expenditure-change 4: refund-unsubscription 5: expenditure-use 8: expenditure-auto-renewal 9: adjustment-compensation 12: Expenditure-hourly billing 13: expenditure-month-end deduction for support plan 15: expenditure-tax 16: adjustment-deduction 17: expenditure-difference amount (min. guaranteed-actual) NOTE Expenditure-difference amount (min. guaranteed-actual) NOTE Expenditure difference amount (min. guaranteed-actual) determines the fees that a customer needs to pay if the customer does not reach the minimum expenditure limit stipulated in the signed contract. This rule is applicable to direct sales customers and referral customers who use postpaid method. 20: refund-change 24: refund-changing to Pay-Per-Use 100: refund-unsubscription tax 101: adjustment-tax deduction 102: adjustment-tax addition

Parameter	Manda tory	Туре	Maximu m Length	Description
offset	No	Integer	0 to maximu m integer	Offset, which starts from 0. The default value is 0 . NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned.
				For example, if there 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned.
				If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	[1-1000]	Maximum number of records in each query. The default value is 10 .
resource_id	No	String	64	Resource ID. If this parameter is not included in the request parameters, it cannot be used as a filter criterion. If this parameter is left empty or is set to "", it can be used as a filter criterion.
enterprise_pr oject_id	No	String	64	 Enterprise project ID. 0: ID of a default project -1: The service does not support enterprise project management. If this parameter is not included in the request, is left empty, or is set to "" or null, it cannot be used as a filter criterion.

Parameter	Manda tory	Туре	Maximu m Length	Description
include_zero_ record	No	Boolean	-	 Whether to return records for which the amount due is 0. true: Yes false: No If this parameter is not included or is left empty, it cannot be used as a filter criterion.
method	No	String	64	 Method of querying resource consumption records. oneself: Query the resource consumption records of an enterprise itself. sub_customer: Query the resource consumption records of enterprise's subcustomers. all: Query the resource consumption records of an enterprise and its subcustomers. If this parameter is not included in the request parameters or is left empty, the default value is all. If this parameter is set to all and an enterprise has no customers, the enterprise queries its own resource usage details.
sub_custome r_id	No	String	64	 Enterprise member account ID. If this parameter is set to "", it cannot be used as a filter criterion. NOTE This parameter is invalid if method is not set to sub_customer. If method is set to sub_customer, this parameter must be specified.

Parameter	Manda tory	Туре	Maximu m Length	Description
trade_id	No	String	64	 Order or transaction ID. This parameter indicates an order ID if the bill type is 1, 2, 3, 4, or 8. For other bill types, this parameter indicates a transaction ID that uniquely identifies a fee deduction dimension. For example, this parameter represents bills when fees are deducted at the end of a month. Otherwise, this parameter represents receivables. If this parameter is not included in the request parameters, it cannot be used as a filter criterion. If this parameter is left empty or is set to "", it can be used as a filter criterion.
bill_date_beg in	No	String	20	 billing cycle type. Start date for querying the resource consumption records, which is in YYYY-MM-DD format (GMT+08:00). If this parameter is not included in the request parameters, is left empty, or is set to "", the first day of the billing cycle is used. NOTE This parameter value must be in the month specified by parameter cycle. bill_date_begin and bill_date_end must be set at the same time. Otherwise, resources are queried only by cycle. This field does not take effect when statistics are collected by billing cycle type.

Parameter	Manda tory	Туре	Maximu m Length	Description
bill_date_end	No	String	20	End date for querying the resource consumption records, which is in YYYY-MM-DD format (GMT+08:00).
				If this parameter is not included in the request parameters, is left empty, or is set to "", the last day of the billing cycle is used.
				 NOTE This parameter value must be in the month specified by parameter cycle.
				 bill_date_begin and bill_date_end must be set at the same time. Otherwise, resources are queried only by cycle.
				 This field does not take effect when statistics are collected by billing cycle type.
statistic_type	No	Integer	-	Statistics type. The default value is 3 .
				• 1: By billing cycle
				• 3 : By details
				If this parameter is not included in the request or is set to null , the default value 3 is used.

Request Message

Request Parameters

None

Example Request

GET https://bss.myhuaweicloud.eu/v2/bills/customer-bills/res-fee-records? cycle=2020-09&charge_mode=1&method=sub_customer&sub_customer_id=05b5fef62300d2ad0f98c00befba 72c0&trade_id= CS1908201442ZLEPW476&bill_date_begin=2020-09-01&bill_date_end=2020-09-30&statistic_type=1 HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response Message

Response Parameters

Parameter	Туре	Maximum Length	Description
error_code	String	16	Status code. For details, see Status code . This parameter is returned only when a failure occurs.
error_msg	String	1024	Error description. This parameter is returned only when a failure occurs.
fee_records	List <resf eeRecord V2></resf 	-	Resource usage record. For details, see Table 7-11 .
total_count	Integer	-	Number of result sets. This parameter is returned only when the query is successful.
currency	String	3	Currency. USD

 Table 7-11
 ResFeeRecordV2

Parameter	Туре	Maximum Length	Description
bill_date	String	20	Date when a resource consumption is recorded. Format: YYYY-MM-DD. The value
			is based on the GMT+08:00 time zone.

Parameter	Туре	Maximum Length	Description
bill_type	Integer	-	Bill type.
			• 1: expenditure-purchase
			• 2: expenditure-renewal
			• 3: expenditure-change
			• 4: refund-unsubscription
			• 5: expenditure-use
			• 8: expenditure-auto-renewal
			• 9: adjustment-compensation
			• 12: Expenditure-hourly billing
			 13: expenditureunsubscription service charge
			 14: expenditure-month-end deduction for support plan
			• 15: expenditure-tax
			16: adjustment-deduction
			 17: expenditure-difference amount (min. guaranteed- actual)
			NOTE Expenditure-difference amount (min. guaranteed-actual) determines the fees that a customer needs to pay if the customer does not reach the minimum expenditure limit stipulated in the signed contract. This rule is applicable to direct sales customers and referral customers who use postpaid method.
			• 20: refund-change
			 24: refund-changing to Pay-Per- Use
			• 100: refund-unsubscription tax
			 101: adjustment-tax compensation
			• 102: adjustment-tax deduction

Parameter	Туре	Maximum Length	Description
customer_id	String	64	Account ID of the customer who has consumption records.
			 If a common account or enterprise member account is used to query consumption records, only the ID of the customer itself is displayed.
			• If an enterprise master account is used to query consumption records, the consumption records of its own and its member accounts can be queried. The ID of a master or member account will be displayed.
region	String	64	Cloud service region code, for example, eu-west-101.
region_name	String	64	Region name, for example, EU- Ireland
cloud_service_t ype	String	64	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .
resource_type	String	64	Resource type code. For example, the resource type code of ECS is hws.resource.type.vm .
cloud_service_t ype_name	String	200	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
resource_type_n ame	String	200	Resource type. For example, the resource type of ECS is Cloud Host .
effective_time	String	32	Start time of using the resource corresponding to the fee. This field is valid only when the resource is billed on a pay-per-use basis. It is reserved for resources billed on a yearly/monthly basis.

Parameter	Туре	Maximum Length	Description
expire_time	String	32	End time of using the resource corresponding to the fee. This field is valid only when the resource is billed on a pay-per-use basis. It is reserved for resources billed on a yearly/monthly basis.
resource_id	String	128	Resource ID.
resource_name	String	256	Resource name.
resource_tag	String	1024	Resource tag.
product_id	String	64	Product ID.
product_name	String	256	Product name.
product_spec_d esc	String	512	Product specification description.
sku_code	String	64	SKU code, which uniquely identifies the resource specification in a bill.
spec_size	BigDecima l	-	Product size, which is available only for linear products. NOTE Linear products are those whose size must be specified during a subscription. For example, you can select 10 GB or 20 GB during a disk subscription.
spec_size_meas ure_id	Integer	-	Product size unit, which is available only for linear products. To obtain the unit, call the API in Querying Measurement Units .
trade_id	String	64	Order or transaction ID, which is the unique identifier of a fee deduction dimension.
id	String	256	Unique ID This value of the unique ID will not be returned when statistics are collected by billing cycle type.
trade_time	String	32	Transaction time

Parameter	Туре	Maximum Length	Description
enterprise_proje ct_id	String	128	 Enterprise project ID. 0: ID of a default project null: The service does not support enterprise project management.
enterprise_proje ct_name	String	256	Enterprise project name.
charge_mode	String	32	 Billing mode. The options are as follows: 1: Yearly/monthly 3: Pay-per-use 10: Reserved instances
order_id	String	64	Order ID. NOTE This parameter is available only for yearly/monthly resources.
period_type	String	-	 Period type. The value can be: 19: Year 20: Month 24: Day 25: Hour 5: One-off
usage_type	String	-	Usage type, which can be obtained by calling the API described in Querying Usage Types .
usage	BigDecima l	-	Resource usage. NOTE If the resource type is yearly/monthly resources, resource usage is not returned.
usage_measure _id	Integer	-	Resource usage measurement unit, which can be obtained by calling the API described in Querying Measurement Units . NOTE If the resource type is yearly/monthly resources, the resource usage measurement unit is not returned.
free_resource_u sage	BigDecima l	-	Package usage.

Parameter	Туре	Maximum Length	Description
free_resource_ measure_id	Integer	-	Usage measurement unit in a package, which can be obtained by calling the API described in Querying Measurement Units .
ri_usage	BigDecima l	-	Reserved instance usage.
ri_usage_measu re_id	Integer	-	Unit (reserved instance usage).
unit_price	BigDecima l	-	 Unit price. Unit price of a pay-per-use product is returned only in the simple pricing scenario. Unit price of a yearly/monthly product is returned only in the following scenarios: Yearly/monthly subscription, renewal, specification downsizing, specification upgrade, and capacity expansion Simple pricing Unit price of a reserved instance is returned only in the following scenarios: Subscription, renewal, specification upgrade, and capacity expansion Subscription, renewal, specification downsizing, specification downsizing, specification upgrade, capacity expansion, and pay-per-use Simple pricing
unit	String	64	 Simple pricing The unit of unit price. The unit of linear products is USD/{<i>linear unit</i>}/month or USD/{<i>linear unit</i>}/hour. The unit of non-linear products is USD/month or USD/hour. NOTE The linear unit is the unit of linear products (those come in sizes). For example, the linear unit of the hard disk is GB, and that of the bandwidth is Mbit/s.

Parameter	Туре	Maximum Length	Description
official_amount	BigDecima l	-	List price, which is the sales price of a product with no commercial discounts and promotion discounts used on the HUAWEI CLOUD official website.
discount_amou nt	BigDecima l	-	Discount, which is offered to customers when they use cloud services, for example, commercial discounts, partner-granted discounts, and promotional discount.
amount	BigDecima l	-	Amount, which is the money a customer should pay for used cloud services after discounts (including cash coupons) are used. It is accurate to eight decimal places. NOTE The value of amount is equal to the sum of the values of cash_amount , credit_amount , coupon_amount , flexipurchase_coupon_amount , stored_card_amount , bonus_amount , debt_amount , and adjustment_amount .
cash_amount	BigDecima l	-	Amount paid in cash.
credit_amount	BigDecima l	-	Amount paid using the credit.
coupon_amoun t	BigDecima l	-	Amount paid using the cash coupon.
flexipurchase_c oupon_amount	BigDecima l	-	Amount paid using the flexi- purchase coupon.
stored_card_am ount	BigDecima l	-	Amount paid using the values- stored card.
bonus_amount	BigDecima l	-	Bonus payment amount (used for the bonus that is not cleared on the live network).
debt_amount	BigDecima l	-	Debt.
adjustment_am ount	BigDecima l	-	Adjustment amount.

Parameter	Туре	Maximum Length	Description
measure_id	Integer	-	Unit. • 1: Dollar

Parameter	Туре	Maximum Length	Description
formula	String	2048	Formula for calculating the actual payment amount. Currently, only the following scenarios are involved:
			 Non-linear pricing for pay-per- use resources {Usage}[Usage]/{Unit conversion rate}[Unit conversion] x {Unit price}[Unit price] - {Discounted amount} [Discounted amount] - {Truncated amount] - {Truncated amount}[Truncated amount] - {Cash coupon used} [Cash coupon used]
			 Linear pricing for pay-per-use resources {Usage}[Usage]/{Unit conversion rate}[Unit conversion] x {Linear size} [Specifications] x {Unit price} [Unit price] - {Discounted amount}[Discounted amount] - {Truncated amount}[Truncated amount] - {Cash coupon used} [Cash coupon used]
			 Non-linear pricing for yearly/ monthly subscriptions and renewals {Number of periods}[Number of periods]/{Period conversion rate}[Period conversion] x {Unit price}[Unit price] - {Discounted amount}[Discounted amount] - {Cash coupon used}[Cash coupon used]
			 Linear pricing for yearly/ monthly subscriptions and renewals {Number of periods}[Number of periods]/{Period conversion rate}[Period conversion] x {Linear size}[Specification] x {Unit price}[Unit price] - {Discounted amount} [Discounted amount] - {Cash coupon used}[Cash coupon used]

Parameter	Туре	Maximum Length	Description
			 Non-linear pricing for yearly/ monthly subscriptions (one-off) and renewals {Unit price}[Unit price] - {Discounted amount} [Discounted amount] - {Cash coupon used}[Cash coupon used] Linear pricing for yearly/ monthly subscriptions (one-off) and renewals {Linear size}[Specifications] x {Unit price}[Unit price] - {Discounted amount} [Discounted amount] - {Cash coupon used}[Cash coupon used] NOTE The actual payment amount is equal to the difference between amount and coupon_amount. When statistic_type is set to 1 (by billing cycle type), the formula for calculating the actual payment amount will not be returned.
sub_service_typ e_code	String	64	Service type code of a child service that is attached to an ECS.
sub_service_typ e_name	String	200	Service type name of a child service that is attached to an ECS.
sub_resource_ty pe_code	String	64	Resource type code of a child resource that is attached to an ECS.
sub_resource_ty pe_name	String	200	Resource type name of a child resource that is attached to an ECS.
sub_resource_id	String	64	Resource ID of a child resource that is attached to an ECS. If the resource is a reserved instance, this parameter indicates a reserved instance ID.
sub_resource_n ame	String	256	Resource name of a child resource that is attached to an ECS. If the resource is a reserved instance, this parameter indicates a reserved instance name.

Example Response



"expire_time": null, "resource_id": null, "resource_name": null, "resource_tag": null, "product_id": "90301-526111-0--0", "product_name": "EVS_SATA_5 years", "product_spec_desc": "EVS_SATA_LXH01|100.0 GB", "sku_code": "SATA_LXH01", "spec_size": 100.0, "spec_size_measure_id": 17, "trade_id": "CS2012211528IP5O1" "id": "037e8a2b-bde9-48*****9eb5153cba_1", "trade time": "2020-06-10T17:03:28Z", "enterprise_project_id": "0", "enterprise_project_name": "default", "charge_mode": "1" "order_id": "CS2012211528IP5Q1", "period_type": "19", "usage_type": null, "usage": null, "usage_measure_id": null, "free resource usage": null, "free_resource_measure_id": null, "ri_usage": null, "ri_usage_measure_id": null, "unit_price": null, "unit": null, "official_amount": 4.0, "discount_amount": 0, "amount": 4.0, "cash_amount": 4.0, "credit_amount": 0.0, "coupon_amount": 0.0, "flexipurchase_coupon_amount": 0.0, "stored_card_amount": 0.0, "bonus_amount": 0.0, "debt_amount": 0.0, "adjustment_amount": null, "measure_id": 1, "sub_service_type_code": null, "sub_service_type_name": null, "sub_resource_type_code": null, "sub_resource_type_name": null, "sub resource id": null, "sub_resource_name": null, "formula": "(1 year)[Number of periods]/(1)[Period conversion] x (100 GB)[Resource specifications] x (1.08 dollars/GB/year)[Unit price] - 21.60 [Discount] - 0.00[Cash coupon used]" }], "total_count": 40, "currency": "USD"

Status code

NOTE

- **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description	
400	CBC.0100	Parameter error.	
403	CBC.0151	Access denied.	
500	CBC.0999	Unknown error occurred.	

8 Cost Management

8.1 Querying Cost Data

Function

This API is used to query the cost data on the self-built platform.

Note:

This API can be invoked using the customer AK/SK or token.

The data of the previous month is available after the bill is generated.

URI

POST /v4/costs/cost-analysed-bills/query

Table 8-1 Header parameters

Paramete	Manda	Value	Description
r	tory	Range	
X- Language	No	A maximu m of 8 characte rs	Language. zh_CN: Chinese en_US: English Default value: zh_CN

Request

Request Parameters

Paramete r	Manda tory	Туре	Value Range	Description
time_con dition	Yes	TimeCon dition Object	-	Time condition. For details, see Table 8-2.
groupby	Yes	List <gro upBy></gro 	A maxim um of 2 values	Search dimension. For details, see Table 8-3. NOTE If there are two values for this parameter, the values must be a combination of tag, cost_unit, and dimension, or both of these two values are set to dimension.
cost_type	Yes	String	A maxim um of 256 charact ers	Cost type.ORIGINAL_COST: Original costAMORTIZED_COST: Amortized cost
amount_t ype	Yes	String		Amount type. • PAYMENT_AMOUNT • NET_AMOUNT.
filters	No	List <filte r></filte 	Minim um length: 0 charact ers Maxim um length: 100 charact ers	Filter. For details, see Table 8-4 . If this parameter is not included in the request parameters, is left empty, or is set to null , it cannot be used as a filter criterion.
offset	No	Integer	[0-200 000]	Offset, starting from 0 . The default value is 0 . NOTE This parameter is used for pagination. Use the default value 0 if pagination is not required. offset indicates the offset relative to the first data record that meets the conditions. If you set offset to 1 , the second and subsequent data records will be returned. For example, there are 10 data records, and if you set limit to 10 and offset to 1 , the second to the tenth data records will be returned.

Paramete r	Manda tory	Туре	Value Range	Description
limit	No	Integer	[1,100 0]	Number of records queried each time. The default value is 10 .

Table 8-2 TimeCondition

Paramete r	Manda tory	Туре	Value Range	Description
time_mea sure_id	Yes	Integer	[1,2]	Time unit. • 1: Day • 2: Month
begin_tim e	Yes	String	32	 Start date (GMT+08:00). If the value for time_measure_id is 1, the date is in YYYY-MM-DD format. If the value for time_measure_id is 2, the date is in YYYY-MM format.
end_time	Yes	String	32	 End date (GMT+08:00). If the value for time_measure_id is 1, the date is in YYYY-MM-DD format. If the value for time_measure_id is 2, the date is in YYYY-MM format. NOTICE Only the cost data within 18 months can be queried.

Table 8-3 GroupBy

Paramete r	Manda tory	Туре	Value Range	Description
type	Yes	String	A maxim um of 64 charact ers	 tag: Grouped by cost tags cost_unit: Grouped by cost categories dimension: Default value

Yes	String	A maxim um of 128 charact ers	 If type is set to tag, the value for this parameter is the key of the tag. If type is set to cost_unit, set this parameter to the key of cost_unit. If type is set to dimension, the value options are as follows:
			 CLOUD_SERVICE_TYPE: Service type ASSOCIATED_ACCOUNT: Linked account NOTE An enterprise master account that has the permission to view the expenditure data of its associated member accounts can view the cost data of the member accounts. REGION_CODE: Region RES_SPEC_CODE: Specification code USAGE_TYPE: Usage type ENTERPRISE_PROJECT_ID: Enterprise project
			 RESOURCE_ID: Resource CHARGING_MODE: Billing mode
			 BILL_TYPE: bill type RESOURCE_TYPE: Resource type AZ_CODE: AZ BE_ID: Business entity PAYER_ACCOUNT_ID: Payer

Table 8-4 Filter

Paramete r	Manda tory	Туре	Value Range	Description
operator	Yes	Integer	[0-1]	Operator. 0: Only contains 1: Only excludes
filter_fact or	Yes	FilterFac tor Object	-	Filter factor. For details, see Table 8-5.

Table 8-5 FilterFactor

Paramete r	Manda tory	Туре	Value Range	Description
key	Yes	String	A maxim um of 256 charact ers	 Grouping conditions. CLOUD_SERVICE_TYPE: Service type ASSOCIATED_ACCOUNT: Linked account NOTE Set this parameter to the HUAWEI ID of the associated account. An enterprise master account that has the permission to view the expenditure data of its associated member accounts can view the cost data of the member accounts. REGION_CODE: Region RES_SPEC_CODE: Specification code USAGE_TYPE: Usage type ENTERPRISE_PROJECT_ID: Enterprise project RESOURCE_ID: Resource CHARGING_MODE: Billing mode BILL_TYPE: bill type. RESOURCE_TYPE: Resource type AZ_CODE: AZ BE_ID: Business entity PAYER_ACCOUNT_ID: Payer account RESOURCE_TAG: Cost tag COST_UNIT: Cost category

Paramete r	Manda tory	Туре	Value Range	Description
value	Yes	List <stri ng></stri 	Minim um count: 1 Maxim um count: 100	Filter value.

Example Request

```
POST https://bss.myhuaweicloud.eu/v4/costs/cost-analysed-bills/query HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
   "amount_type": "PAYMENT_AMOUNT",
   "offset": 0,
   "cost_type": "ORIGINAL_COST",
  "limit": 10,
  "groupby": [{
"type": "dimension",
"key": "CLOUD_SERVICE_TYPE"
  }],
"filters": [{
      "filter_factor": {
         "value": ["cn-north-1"],
         "key": "REGION_CODE"
     },
"operator": 0
  }],
   "time_condition": {
      "end_time": "2021-07-15",
"begin_time": "2021-07-14",
      "time_measure_id": 1
  }
}
```

Response Message

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 character s	Returned value. For details, see Returned Values. This parameter is returned only when the query failed.

Parameter	Туре	Value Range	Description
error_msg	String	A maximu m of 1000 character s	Error description. This parameter is returned only when the query failed.
currency	String	A maximu m of 8 character s	Currency. • USD
total_count	Integer	-	Total number of records.
cost_data	List <costd ataByDime nsion></costd 	-	Cost details by day or month. For details, see Table 8-6 .

Table 8-6 CostDataByDimension

Parameter	Туре	Value Range	Description
dimensions	List <dime nsionGrou p></dime 	A maximu m of 1 value	Dimensions. For details, see Table 8-7 .
costs	List <cost></cost>	Max Count: 10000	Cost value. For details, see Table 8-8 .
amount_by_ costs	String	A maximu m of 64 character s	Total cost in a period.
official_amo unt_by_costs	String	A maximu m of 64 character s	Total expenditures based on list prices in a period.

Parameter	Туре	Value Range	Description
key	String	A maximu m of 128 character s	 Grouping conditions CLOUD_SERVICE_TYPE: Service type ENTERPRISE_PROJECT_ID: Enterprise project USAGE_TYPE: Usage type RESOURCE_TYPE: Resource type AZ_CODE: AZ BILL_TYPE: Bill type ASSOCIATED_ACCOUNT: Linked account RES_SPEC_CODE: Specification Code BE_ID: Business entity REGION_CODE: Region CHARGING_MODE: Billing mode PAYER_ACCOUNT_ID: Payer account RESOURCE_TAG: Resource tag RESOURCE_ID: Resource ID COST_UNIT: Cost category
value	String	-	Dimension.

 Table 8-7
 DimensionGroup

Table 8-8 Cost

Parameter	Туре	Value Range	Description
time_dimens ion_value	String	A maximu m of 20 character s	 Time dimension. yyyy-mm-dd indicates that data is filtered by day. yyyy-mm indicates that data is filtered by month.
time_measur e_id	Int	-	Time unit. • 1: Day • 2: Month
amount	String	A maximu m of 64 character s	One of the following cost types: original costs, net original costs, amortized costs, and net amortized costs.

Parameter	Туре	Value Range	Description
official_amo unt	String	A maximu m of 64 character s	List price.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
ł
  "currency": "USD",
  "total_count": 1,
  "cost_data": [
     {
       "dimensions": [
          {
             "key": "tag",
             "value": "Group:noTagKey"
          }
       ],
        "costs": [
          {
             "time_dimension_value": "2021-08",
             "time_measure_id": 2,
             "amount": "13225.00",
             "official_amount": "13225.00"
          }
       ],
        "amount_by_costs": "13225.00",
        "official_amount_by_costs": "13225.00"
     }
  ]
ļ
```

Returned Values

NOTE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
400	CBC.0100	Invalid parameter.
400	CBC.18000014	Cost Center not enabled.

HTTP Value	Error Code	Description
400	CBC.18000016	Insufficient permissions. Contact your partner.
400	CBC.18000030	The cost data of accounts that are not associated with an enterprise master account cannot be queried.
400	CBC.18000053	Insufficient permissions. Contact your enterprise master.
500	CBC.0999	Other errors.
400	CBC.18000048	Too many independent accounting members. Specify a member account for query.

9 Managing an Enterprise

9.1 Managing Enterprise Projects

9.1.1 Enabling the Enterprise Project Management

Function

This API is used to enable the enterprise project management on your own platform.

Constraints

Your AK/SK or token is required for invoking this API.

URI

POST /v2/enterprises/enterprise-projects/authority

Request

Request parameters

None.

Example request

POST https://bss.myhuaweicloud.eu/v2/enterprises/enterprise-projects/authority HTTP/1.1 Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

Response

Response parameters

Status code: 204

Success is returned by default.

Status code: 400

Parameter	Туре	Value Limit	Description
error_code	String	20	Status code. For details, see Status Code . This parameter is returned when the query fails.
error_msg	String	1,000	Error description. This parameter is returned when the query fails.
fail_check_it ems	List <string ></string 	-	Check item not satisfied. For details, see Table 9-1.
			This parameter matches the error code: CBC.99007004.

Table 9-1 Invalid request.

Check Item	Description
NOT_OPEN_PROJECT_GROUP	Enabling enterprise project management not supported. You have enabled project group management.
NOT_OPEN_MULTI_PROJECT	Enabling enterprise project management not supported. You have enabled the Multi- Project function.
SELF_OPEN_ONLY_FOR_ENT_AN D_INTR_CUST	Only customers who have completed real- name authentication can enable project management.

Example response

HTTP/1.1 204 No Content Content-Type: application/json;charset=UTF-8 Content-Length: *length* Date: *response time*

Status Code

NOTE

- **4***xx*: indicates an error resulting from client, such as the request contains bad syntax or an invalid parameter. You need to check the statement and its format and make a request again.
- **5***xx*: indicates an error to the Huawei Cloud system, which prevented the system from fulfilling the request from client. You can contact Huawei Cloud customer service to handle the issue.

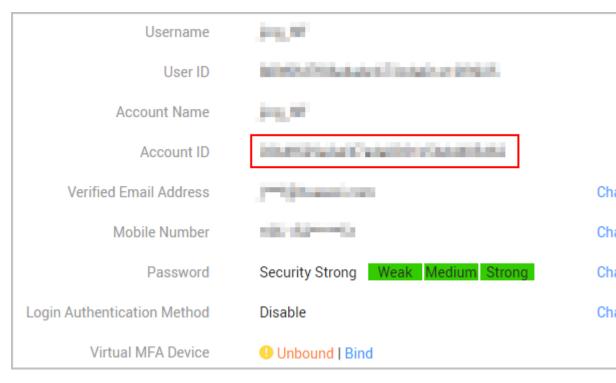
Status Code	Error Code	Description	
400	CBC.0100	Invalid parameter.	
400	CBC.990070 04	Check item not satisfied.	
403	CBC.0151	Access denied.	
500	CBC.0999	Other errors.	

10 Appendix

10.1 How Do I Obtain customer_id or domain_id?

You can sign in to Huawei Cloud and obtain **customer_id** from the **My Credential** page.

Visit **My Credential** at https://console.eu.huaweicloud.com/iam/#/mine/ apiCredential.



10.2 Support for Discounts or Coupons

When a customer invokes the interface described in **Renewing Subscription to** Yearly/Monthly Resources to renew the subscription, it can configure automatic payment. If the isAutoPay parameter is set to 1, automatic payment is enabled. Discounts and coupons can be used in automatic payment.
 For details about the payment rules, see Rule Description in .

10.3 Status Code

 Table 10-1 lists the HTTP response status code.

Table 10-1 HTTP response status code

Status Code	Coding	Description	
100	Continue	The client continues sending the request. This interim response is used to inform the client that the initial part of the request has been received and has not yet been rejected by the server.	
101	Switching Protocols	Switching protocols. The target protocol must be more advanced than the source protocol. For example, the current HTTP protocol is switched to a later version.	
201	Created	The request for creating a resource or task has been fulfilled.	
202	Accepted	The request has been accepted, but the processing has not been completed.	
203	Non-Authoritative Information	The server successfully processed the request, but is returning information that may be from another source.	
204	NoContent	The server has successfully processed the request, but has not returned any content. The status code is returned in response to an HTTP OPTIONS request.	
205	Reset Content	The server has fulfilled the request, but the requester is required to reset the content.	
206	Partial Content	The server has processed certain GET requests.	
300	Multiple Choices	There are multiple options for the location of the requested resource. The response contains a list of resource characteristics and addresses from which the customer or customer agent (such as a browser) can choose the most appropriate one.	

Status Code	Coding	Description	
301	Moved Permanently	The requested resource has been assigned a new permanent URI, and the new URI is contained in the response.	
302	Found	The requested resource resides temporarily under a different URI.	
303	See Other	Retrieve a location. The response to the request can be found under a different URI and should be retrieved using a GET or POST method.	
304	Not Modified	The requested resource has not been modified. In such a case, there is no need to retransmit the resource since the client still has a previously-downloaded copy.	
305	Use Proxy	The requested resource must be accessed through a proxy.	
306	Unused	The HTTP status code is no longer used.	
400	BadRequest	Invalid request. The client should not repeat the request without modifications.	
401	Unauthorized	The status code is returned after the client provides the authentication information, indicating that the authentication information is incorrect or invalid.	
402	Payment Required	This status code is reserved for future use.	
403	Forbidden	The server understood the request, but is refusing to fulfill it. The client should not repeat the request without modifications.	
404	NotFound	The requested resource cannot be found. The client should not repeat the request without modifications.	
405	MethodNotAllowed	The method specified in the request is not supported for the requested resource. The client should not repeat the request without modifications.	
406	Not Acceptable	The server cannot fulfill the request according to the content characteristics of the request.	

Status Code	Coding	Description	
407	Proxy Authentication Required	This status code is similar to 401, but indicates that the client must first authenticate itself with the proxy.	
408	Request Time-out	The request timed out.	
		The client may repeat the request without modifications at any later time.	
409	Conflict	The request could not be processed due to a conflict.	
		This status code indicates that the resource that the client attempts to create already exits, or the request fails to be processed because of the update of the conflict request.	
410	Gone	The requested resource is no longer available.	
		The status code indicates that the requested resource has been deleted permanently.	
411	Length Required	The server refuses to process the request without a defined Content-Length.	
412	Precondition Failed	The server does not meet one of the preconditions that the requester puts on the request.	
413	Request Entity Too Large	The request is larger than that a server is able to process. The server may close the connection to prevent the client from continuing the request. If the server cannot process the request temporarily, the response will contain a Retry-After header field.	
414	Request-URI Too Large	The URI provided was too long for the server to process.	
415	Unsupported Media Type	The server is unable to process the media format in the request.	
416	Requested range not satisfiable	The requested range is invalid.	
417	Expectation Failed	The server fails to meet the requirements of the Expect request-header field.	
422	UnprocessableEnti- ty	The request is well-formed but is unable to be processed due to semantic errors.	

Status Code	Coding	Description	
429	TooManyRequests	The client has sent more requests than its rate limit is allowed within a given amount of time, or the server has received more requests than it is able to process within a given amount of time. In this case, it is advisable for the client to re-initiate requests after the time specified in the Retry-After header of the response expires.	
500	InternalServerError	The server is able to receive the request but it could not understand the request.	
501	Not Implemented	The server does not support the requested function.	
502	Bad Gateway	The server is acting as a gateway or proxy and receives an invalid request from a remote server.	
503	ServiceUnavailable	The requested service is invalid. The client should not repeat the request without modifications.	
504	ServerTimeout	The request cannot be fulfilled within a given time. This status code is returned to the client only when the Timeout parameter is specified in the request.	
505	HTTP Version not supported	The server does not support the HTTP protocol version used in the request.	

10.4 Error Codes

When a customer invokes an operations API provided by Huawei Cloud, the response body contains the error code and error code description.

NOTICE

- **4***xx*. This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

Error Code Structure Format

```
{
"error_code": "xxxx",
"error_msg": "xxxx"
}
```

Error Codes

Table 10-2	Error	codes
------------	-------	-------

Status Code	Error Code	Error Message	Description
200	CBC.0000	Success.	Succeeded.
403	CBC.0150	Access denied. The customer does not belong to the website you are now at.	Access failed. You are not a client of this website.
400	CBC.180000 16	Insufficient permissions. Contact your associated partner.	Insufficient permissions. Contact your partner.
400	CBC.180000 48	Too many independent accounting members. Specify a member account for query.	Too many independent accounting members. Specify a member account for query.
200	CBC.3002	The resource has been locked.	The resource has been locked.
200	CBC.3006	Unsupported cloud service type.	Unsupported cloud service type.
200	CBC.3016	Expired resources exist.	Expired resources exist.
200	CBC.300500 07	It is not a primary resource, and the renewal quotation is not allowed.	Renewal price inquiry is not available for non-primary resources.
200	CBC.300500 08	The period type or number of periods for the resource does not exist.	The period type or the number of periods for the resource is unavailable.
200	CBC.300500 09	The resources do not exist or has been deleted due to expiration.	The resources have expired and been deleted or do not exist.

Status Code	Error Code	Error Message	Description
200	CBC.300500 10	This operation is not allowed because some resources are included in the unpaid orders.	Some resources are included in your orders to be paid. The operation is not supported.
200	CBC.300500 11	The resources are being unsubscribed from or changed.	Resources are being unsubscribed from or changed.
200	CBC.300500 13	The product cannot be renewed.	Renewal not supported.
200	CBC.3106	The order status has changed and no payment can be made.	The order status has changed and no payment can be made.
200	CBC.3112	The coupon or stored-value card has been used.	The coupon or stored-value card has been used.
200	CBC.3124	Resources have been unsubscribed from.	Resources have been unsubscribed from.
200	CBC.3144	Operation not supported. There is an order in progress for this resource.	You have orders in progress and cannot perform the current operation.
200	CBC.3128	The resource does not have renewed periods or its renewed periods have taken effect, and the renewal periods cannot be unsubscribed from.	The resource does not have renewed periods or its renewed periods have taken effect, and the renewal periods cannot be unsubscribed from.
200	CBC.3141	Cloud service quota or capacity is insufficient, or the resource specifications have changed.	Cloud service quota or capacity is insufficient, or the resource specifications have changed.

Status Code	Error Code	Error Message	Description
200	CBC.3155	Insufficient enterprise project fund quota, or invalid project.	Insufficient enterprise project fund quota, or invalid project.
200	CBC.3162	The add-on package you purchased does not meet payment requirements.	The add-on package you purchased does not meet payment requirements.
200	CBC.3185	The cloud service can only be unsubscribed from as a whole.	The cloud service can only be unsubscribed from as a whole.
200	CBC.3638	Subscription to bandwidth add-on packages cannot be renewed.	Subscription to bandwidth add- on packages cannot be renewed.
200	CBC.3640	Bandwidth add-on packages cannot be unsubscribed from.	Bandwidth add-on packages cannot be unsubscribed from.
200	CBC.5023	The account type does not match the association type.	The account type does not match the association type.
200	CBC.5041	Resources in this order have been unsubscribed.	Resources in this order have been unsubscribed.
200	CBC.5042	Resources cannot be found.	Resources cannot be found.
200	CBC.6001	Required param resource id or riInstanceId is null or empty.	The resource ID or reserved instance ID is empty.
200	CBC.6055	Calculate result exceeds max value.	The queried amount exceeds the upper limit.
200	CBC.6006	The required product cannot be found.	The required product cannot be found.
400	CBC.0100	parameter error.	Invalid parameter.

Status Code	Error Code	Error Message	Description
400	CBC.0101	Invalid parameter.	Invalid parameter.
400	CBC.180000 14	Inactive Cost Management.	Cost Center not enabled.
400	CBC.180000 30	Cost data query is not supported when associated accounts are unbound.	The cost data of accounts that are not associated with an enterprise master account cannot be queried.
400	CBC.180000 53	Insufficient permissions. Contact your enterprise master.	Insufficient permissions. Contact your enterprise master.
500	CBC.300000 10	Invalid order (maybe the order does not exist), unable to operate.	Operation not allowed because the order is invalid or does not exist.
400	CBC.300000 67	Unsubscription not supported. This resource has been deleted or the subscription to this resource has not been synchronized to CBC.	Unsubscription not supported. This resource has been deleted or the subscription to this resource has not been synchronized to CBC.
400	CBC.300000 52	The resource or account has been already frozen.	Operation not allowed. Your resource has been frozen.
400	CBC.300100 35	resource deleted.	Resource deleted.
400	CBC.300100 36	Renewal is only supported for primary resources.	Renewal is only supported for primary resources.
400	CBC.300100 69	The renewal period does not exist.	The renewal period does not exist.
400	CBC.300500 06	Automatic order payment failed.	Automatic order payment failed.
400	CBC.300500 12	Duplicate resource ID.	There are duplicate resource IDs.

Status Code	Error Code	Error Message	Description
400	CBC.5003	Insufficient balance.	Insufficient balance.
400	CBC.500100 85	Customer association not allowed. The account of this partner has been restricted.	Customer association not allowed. The account of this partner has been restricted.
400	CBC.500100 86	Customer association not allowed. This partner is a Huawei Cloud reseller, and the account of its associated distributor has been restricted.	Customer association not allowed. This partner is a Huawei Cloud reseller, and the account of its associated distributor has been restricted.
400	CBC.706000 26	Huawei Cloud cannot review the information you submitted for real-name authentication. Contact your account manager.	Sorry, Huawei Cloud cannot review your real-name authentication information. Please contact your account manager for assistance.
400	CBC.709000 02	You can only create an enterprise member account through the HIS platform.	You can only create an enterprise member account through the HIS platform.
400	CBC.990000 04	An exception occurred when the customer authorized rights to the partner.	An exception occurred when the customer authorized rights to the partner.
400	CBC.990000 26	Incorrect verification code.	Incorrect verification code.
400	CBC.990000 27	Expired verification code.	Expired verification code.
400	CBC.990000 28	The email address already exists.	Invalid email address. Email already in-use.

Status Code	Error Code	Error Message	Description
400	CBC.990000 31	Invalid DomainName.	Invalid DomainName.
400	CBC.990000 32	Invalid email address.	Invalid email address.
400	CBC.990000 34	Currently, registration with HUAWEI CLOUD is not available to users in this country.	Currently, registration with HUAWEI CLOUD is not available to users in this country.
400	CBC.990000 36	Invalid password.	Invalid password.
400	CBC.990000 37	You do not have the permission to operate this Huawei Cloud reseller.	You do not have the permission to operate this Huawei Cloud reseller.
400	CBC.990000 38	The account name already exists.	The account name already exists.
400	CBC.990000 39	xAccountId exists.	Duplicate xAccountId.
400	CBC.990000 46	Insufficient budget.	Insufficient budget.
400	CBC.990000 49	BindType can not be resale.	The customer associated in Reseller model has no account balance.
400	CBC.990000 82	You have exceeded the maximum verification code requests allowed.	Maximum verification code requests reached.
400	CBC.990000 88	We have received your payment and it is currently being processed. Please do not attempt to make the payment again.	Your payment is being processed.

Status Code	Error Code	Error Message	Description
400	CBC.990000 89	The current operation can only be performed on combined orders.	Operation failed. Sub-orders of a combine order cannot be processed independently.
400	CBC.990000 92	Incorrect subscription period.	Incorrect subscription period.
400	CBC.990030 04	The resource has dependencies.	The resource has dependencies.
400	CBC.990030 12	The resource ID does not exist.	The resource ID does not exist.
400	CBC.990030 16	The resources have expired and been deleted or do not exist.	The resources have expired and been deleted or do not exist.
400	CBC.990031 00	This operation is not allowed because some resources are included in your orders to be paid.	This operation is not allowed because some resources are included in your orders to be paid.
400	CBC.990031 06	The order status has changed and no payment can be made.	The order status has changed and no payment can be made.
400	CBC.990031 08	Unavailable discount.	Unavailable discount.
400	CBC.990031 10	The order has not been paid before the expiration time. Please re- submit the order.	The order has not been paid before the expiration time. Please re-submit the order.
400	CBC.990031 12	The coupon or stored-value card has been used.	The coupon or stored-value card has been used.
400	CBC.990031 15	An error occurred. Try again later.	An error occurred. Try again later.

Status Code	Error Code	Error Message	Description
400	CBC.990031 16	The restriction to selected coupon regulates that the coupon cannot be used with the discount at the same time.	The restriction to selected coupon regulates that the coupon cannot be used with the discount at the same time.
400	CBC.990031 17	The selected discount is less than the minimum discount rate configured for the selected coupon. Note: For example, if the minimum discount rate configured for a coupon is 90% and the selected discount is less than 90% in all order lines, the discount cannot be used.	The selected discount is less than the minimum discount rate configured for the selected coupon. Note: For example, if the minimum discount rate configured for a coupon is 90% and the selected discount is less than 90% in all order lines, the discount cannot be used.
400	CBC.990031 24	Resources have been unsubscribed from.	Resources have been unsubscribed from.
400	CBC.990031 28	The resource does not have renewed periods or its renewed periods have taken effect, and the renewal periods cannot be unsubscribed from.	The resource does not have renewed periods or its renewed periods have taken effect, and the renewal periods cannot be unsubscribed from.
400	CBC.990031 41	Cloud service quota or capacity is insufficient, or the resource specifications have changed.	Cloud service quota or capacity is insufficient, or the resource specifications have changed.

Status Code	Error Code	Error Message	Description
400	CBC.990031 44	Operation not supported. There is an order in progress for this resource.	You have orders in progress and cannot perform the current operation.
400	CBC.990031 47	Discounts and cash coupons cannot be used together.	Discounts and cash coupons cannot be used together.
400	CBC.990031 51	This discount cannot be used together with other discounts.	This discount cannot be used together with other discounts.
400	CBC.990031 54	The sum of the existing and renewal durations has exceeded the maximun. Select another renewal duration.	Subscription plus renewal too long. Select shorter renewal.
400	CBC.990031 55	Insufficient enterprise project fund quota, or invalid project.	Insufficient enterprise project fund quota, or invalid project.
400	CBC.990031 56	Coupons applicable to Marketplace products cannot be used together with dedicated coupons.	Coupons applicable to KooGallery products cannot be used together with dedicated coupons.
400	CBC.990031 62	The payment time must be earlier than the specified effective time.	The payment time must be earlier than the specified effective time.
400	CBC.990031 85	The cloud service can only be unsubscribed from as a whole.	The cloud service can only be unsubscribed from as a whole.
400	CBC.990031 98	Insufficient organization budget.	Insufficient budget of the organization.

Status Code	Error Code	Error Message	Description
400	CBC.990036 02	Automatic renewal is not supported for expired or frozen resources.	Automatic renewal is not supported for expired or frozen resources.
400	CBC.990036 05	Theautomatic renewal has been canceled. The current operation cannot be performed.	Automatic renewal has been canceled and you cannot perform the current operation.
400	CBC.990036 09	The billing mode of this product type cannot be converted into pay-per-use.	The billing mode of this product type cannot be converted into pay-per-use.
200	CBC.990036 10	The billing mode of resources in the grace or retention period cannot be converted into pay-per-use.	The billing mode of resources in the retention period cannot be converted into pay-per-use.
400	CBC.990036 11	The billing mode of pay-per-usage packages cannot be converted into pay-per-use.	The billing mode of pay-per- usage packages cannot be converted into pay-per-use.
400	CBC.990036 22	The billing mode of solutions cannot be converted into pay-per-use.	The billing mode of solutions cannot be converted into pay- per-use.
400	CBC.990036 23	Cannot be converted into the pay-per-use billing mode because there are transactions being processed.	Cannot be converted into the pay-per-use billing mode because there are transactions being processed.

Status Code	Error Code	Error Message	Description
400	CBC.990036 24	Cannot be converted into the pay-per-use billing mode because the resource has been frozen due to security reasons.	Cannot be converted into the pay-per-use billing mode because the resource has been frozen due to security reasons.
400	CBC.990036 26	Cannot be converted into the pay-per-use billing mode because this account has been frozen.	Cannot be converted into the pay-per-use billing mode because this account has been frozen.
400	CBC.990036 31	Unsubscribed,dele ted, and released resources cannot be renewed.	Resources that are being unsubscribed, deleted, or released cannot be renewed.
400	CBC.990036 34	Resources in discount packages must be renewed as a whole and cannot be renewed together with other resources.	Resources in discount packages must be renewed as a whole and cannot be renewed together with other resources.
400	CBC.990036 38	Subscription to bandwidth add-on packages cannot be renewed.	Subscription to bandwidth add- on packages cannot be renewed.
400	CBC.990036 43	Unsubscriptionis not allowed for cloud services that have been invoiced.	For cloud services for which invoices have been issued, unsubscription is not supported.
400	CBC.990036 45	Unsubscription not supported for the service type of the resource.	Unsubscription not supported for this cloud service type.
400	CBC.990036 47	Unsubscription not supported for this pay-per-use package.	Unsubscription not supported for this pay-per-use package.

Status Code	Error Code	Error Message	Description
400	CBC.990036 49	Unsubscription not supported for cloud services in trial use.	Unsubscription not supported for cloud services in trial use.
400	CBC.990036 50	Unsubscription not supported for this cloud service from the KooGallery.	Unsubscription not supported for this cloud service from the KooGallery.
400	CBC.990036 51	Unsubscription not supported. An operation associated with this instance is in progress.	Unsubscription not supported. An operation associated with this instance is in progress.
400	CBC.990036 52	Unsubscription is not supported for DevCloud packages.	Unsubscription is not supported for DevCloud packages.
400	CBC.990036 54	This renewal period cannot be canceled because it includes an add- on bandwidthpackag e.	If there is a bandwidth add-on package, you cannot unsubscribe from the renewal period.
400	CBC.990036 56	Operation not allowed. Your account has been frozen.	Operation not allowed. Your resource has been frozen.
400	CBC.990040 08	Invalid verification code.	Invalid verification code.
400	CBC.990040 09	The verification code is available, but the number of verification failures is greater than 3.	The verification code is available, but the number of verification failures is greater than 3.
400	CBC.990040 10	The verification code entered is incorrect.	The verification code entered is incorrect.
400	CBC.990050 03	Your balance is insufficient.	Insufficient balance.

Status Code	Error Code	Error Message	Description
400	CBC.990050 10	Orders in this state cannot be canceled.	Orders in this state cannot be canceled.
400	CBC.990050 36	The customer does not support payment via interface.	The customer does not support payment via interface.
400	CBC.990050 26	The order is not a degrade or unsubscription order.	The order is not a degrade or unsubscription order.
400	CBC.990050 42	The resource cannot be found or unsubscribed from.	The resource cannot be found or unsubscribed from.
400	CBC.990060 06	Product not found.	Product not found.
400	CBC.990060 16	Failed to query coupon information.	Failed to query coupon information.
400	CBC.990060 17	Failed to query customer details.	Failed to query customer information.
400	CBC.990060 24	Failed to query product information.	Failed to query product information.
400	CBC.990060 50	Incorrect usage measurement unit.	Incorrect usage unit
400	CBC.990060 55	The queried amount exceeds the upper limit.	The queried amount exceeds the upper limit.
400	CBC.990060 66	An error occurred during the query of the fee information.	An error occurred during the query of the fee information.
400	CBC.990060 73	Project not found.	Project not found.
400	CBC.990060 74	The billing item does not exist.	The billing item does not exist.

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500 CBC.7228 Invalid password. Invalid password.	500	CBC.7228	Invalid password.	Invalid password.