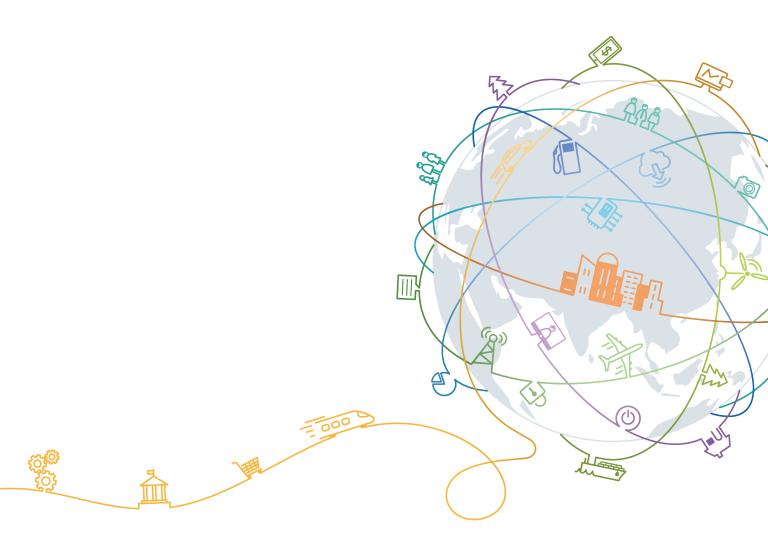
Customer Operation Capabilities

API Reference

Issue 50

Date 2024-03-29





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1 Change History

What's New	Released On
This issue is the fifty-second official release.	2024-4-28
This release incorporates the following changes:	
 Deleted the error code, CBC.99003645 (Unsubscription not supported for this cloud service type), from the V2 API for Unsubscribing from Yearly/Monthly Resources. 	
 Deleted the error code, CBC.99003631 (The unsubscribed, deleted, or released resource cannot be renewed), from the V2 API for Renewing Subscription to Yearly/Monthly Resources. 	
 Deleted error code, 400 CBC.99006073 (Project does not exist), from the V2 API for Querying the Price of a Pay-Per-Use Product. " 	
 Released the V2 API for Enabling the Enterprise Project Management. 	
 Modified the limit of the range (for order creation and payment time) queried to one year for the Querying Orders and Querying Orders APIs. 	
 Added the error code, CBC.18000048 (Too many independent accounting members. Specify a member account for query), to the V4 API for Querying Cost Data. 	
This issue is the fifty-first official release.	2024-3-29
This release incorporates the following change:	
Added the SPLIT_ITEM_NAME parameter to the V4 API for querying costs.	
When the cost type is ORIGINAL_COST , split items cannot be used to query costs.	

What's New	Released On
This issue is the fiftieth official release. This release incorporates the following change: Added the error code, CBC.99003647 (Unsubscription not supported for this pay-per-use package.), to the V2 API for renewing yearly/monthly subscriptions. "	2024-2-23
 This issue is the forty-ninth official release. This release incorporates the following changes: Added the error code, CBC.99000092 (Incorrect subscription period.), to the V2 API for renewing yearly/monthly subscriptions. The V1 API for canceling unpaid orders was taken offline. 	2024-01-25
This issue is the forty-eighth official release. The V1 API for paying yearly/monthly bills was taken offline.	2023-12-26
This issue is the forty-seventh official release. This release incorporates the following change: Removed the API (V1) for querying prices by product specification.	2023-10-25
 This issue is the forty-sixth official release. This release incorporates the following changes: Added the error code, CBC.99000088: Your payment is being processed, to the API, Paying a yearly/monthly order. Added the enumeration, 11: Savings plan, to the parameter, charge_mode and added the enumeration, 23: Expenditure-savings plans to the parameter, bill_type for APIs, Viewing Resource Expenditures and Viewing Resource Usage Details. Added the enumeration, 611: Savings plan to the parameter, Querying Summary Bills. Added the enumeration, 11: Savings plan to the parameter, cycleType for the API, Querying Coupons. 	2023-06-29

What's New	Released On
This issue is the forty-fifth official release. This release incorporates the following changes:	2023-4-18
 Added response parameters, pre_order_id, az_code_infos, and az_code to the API of Viewing Resource Usage Details for querying the original order ID, AZ information list, and AZ codes. 	
 Added the section API Access Permission (Customer). A customer needs to obtain permissions before accessing APIs. Customers' API access permissions can be granted in IAM. 	
 Added the error code "CBC.30050013: Renewal not supported to Querying the Renewal Price of a Yearly/Monthly Resource. 	
This issue is the forty-fourth official release.	2023-3-30
This release incorporates the following change:	
Added the API for querying the renewal price of a yearly/monthly resource. Customers can query the renewal price of yearly/monthly resources by criteria.	
This issue is the forty-third official release.	2023-2-9
This release incorporates the following change:	
Added the response parameter fail_resource_infos (for querying the resources that fail to be subscribed to or unsubscribed from) to the APIs for renewing subscriptions to yearly/monthly resources and unsubscribing from yearly/monthly resources.	
This issue is the forty-second official release.	2022-12-27
This release incorporates the following changes:	
 Added the API for querying resource package usage details. 	
 Added the following response parameters to the APIs for viewing resource usage details and viewing resource expenditures: "sub_service_type_code", "sub_service_type_name", "sub_resource_type_code", "sub_resource_type_name", "sub_resource_id", and "sub_resource_name" 	
This issue is the forty-first official release.	2022-11-29
This release incorporates the following change:	
 Changed the value range of the parameter groupby of the API for querying cost data to "A maximum of 2 values". 	
 Added the response parameter formula to the API for viewing resource expenditures. 	

What's New	Released On
This issue is the fortieth official release.	2022-11-17
This release incorporates the following changes:	
Brought the V1 API for enabling automatic subscription renewal for yearly/monthly resources offline.	
Brought the V1 API for disabling automatic subscription renewal for yearly/monthly resources offline.	
This issue is the thirty-ninth official release.	2022-09-27
This release incorporates the following change:	
Added the V3 API for paying yearly/monthly product orders, and moved the V2 API for paying yearly/monthly product orders to API to Be Brought Offline.	
This issue is the thirty-eighth official release.	2022-09-13
This release incorporates the following change:	
Added response parameters root_resource_id, parent_resource_id, trade_id, and product_spec_desc to the API for querying resource usage details.	
This issue is the thirty-seventh official release,	2022-08-30
This release incorporates the following change:	
A value of the response parameter feeSourceOperation of the API for viewing resource expenditures has been changed to 20: Refund - change (entire server), and the value 21: Refund - change (specification downgrade) is added.	
This issue is the thirty-sixth official release.	2022-08-16
This release incorporates the following change:	
Add the API for querying cost data . Customers can query the cost data on their self-built platform through this API.	
This issue is the thirty-fifth official release.	2022-08-10
This release incorporates the following change:	
Changed Marketplace to KooGallery.	
This issue is the thirty-fourth official release.	2022-07-19
This release incorporates the following changes:	
 Added the error code CBC.30010035 to the API for unsubscribing from yearly/monthly resources. 	

What's New	Released On
This issue is the thirty-third official release. This release incorporates the following changes:	2022-07-05
Added the following description for the API in Unsubscribing from Yearly/Monthly Resources: 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.	
This issue is the thirty-second official release.	2022-04-12
This release incorporates the following changes:	
 Added period_type to the response parameters of the API in Viewing Resource Usage Details. 	
 Added the API for querying cloud service types, and moved the old API for querying cloud service types to API to Be Brought Offline. 	
 Added the API for querying resource types, and moved the old API for querying resource types to API to Be Brought Offline. 	
 Added service_type_name, indicating the cloud service type, and resource_type_name, indicating the resource type, to the response parameters of the APIs for querying usage types, paying yearly/ monthly product orders, querying the amount of unsubscription orders, querying customer's yearly/monthly resources, and querying summary bills. 	
 Added cloud_service_type_name, indicating the cloud service type, and resource_type_name, indicating the resource type, to the response parameters of the APIs for viewing resource usage details and viewing resource expenditures. 	
 Added service_type_name, indicating the cloud service type, to the response parameters of the APIs for querying order details and querying resource packages. 	
This issue is the thirty-first official release.	2022-03-25
This release incorporates the following changes:	
The transaction model name in Chinese for Referral has been changed, but the English name remains unchanged.	
Added the enumerated value 7: Deposit for the account_type parameter in the response of the V2 API for querying the account balance.	

What's New	Released On
This issue is the thirtieth official release. This release incorporates the following change: Added error code CBC.99003605 in the response of the V2 API for canceling automatic renewal for yearly/monthly resources.	2022-03-15
This issue is the twenty-ninth official release. This release incorporates the following change: Added the enumerated value 20: refund-change for the bill_type parameter of the API for querying resource usage details.	2022-02-15
 This issue is the twenty-eighth official release. This release incorporates the following changes: Added error code CBC.30010036 in the response of the API for renewing subscription to yearly/monthly resources. Added error code CBC.99003602 in the response of the API for enabling automatic subscription renewal for yearly/monthly resources. Added enumerated values 19: Change - specifications upgrade and 20: Change - specifications downgrade for the response parameter feeSourceOperation of the old API for querying resource expenditures. 	2022-01-25
 This issue is the twenty-seventh official release. This release incorporates the following changes: Added error code CBC.0250 to the response of the API for querying the price of a yearly/monthly product. Added error code CBC.30050006 in the response of the API for renewing subscription to yearly/monthly resources. Added error code CBC.99003115 to the response of the V2 API for paying yearly/monthly product orders. Added error code CBC.99003156 to the response of the V2 API for paying yearly/monthly product orders. Added error code CBC.99003156 to the response of the V1 API for paying yearly/monthly product orders. 	2022-01-11

What's New	Released On
 This issue is the twenty-sixth official release. This release incorporates the following changes: Added the request parameter statistic_type and the response parameter bill_date for the API in Viewing Resource Usage Details to support querying resource usage details by day. Deleted error code CBC.99003001 from the API in Renewing Subscription to Yearly/Monthly Resources. 	2021-11-30
This issue is the twenty-fifth official release. This release incorporates the following change: Change the description of the error message for CBC.99003016 to "The resources have expired and been deleted or do not exist." in Renewing Subscription to Yearly/Monthly Resources.	2021-11-02
 This issue is the twenty-fourth official release. This release incorporates the following changes: Added the V3 API for querying resource packages and moved the V2 API for querying resource packages to API to Be Brought Offline. Added request parameters expire_time_begin and expire_time_end to the API in Querying Customer's Yearly/Monthly Resources. These two parameters are used to query the list of resources that expire in a specified period. 	2021-09-28
 This issue is the twenty-third official release. This release incorporates the following changes: Added error code CBC.30000010 to the API for paying yearly/monthly product orders. Added a description for the Unit parameter in Viewing Resource Expenditures to differentiate the unit of the linear products from that of non-linear products. 	2021-08-31
This issue is the twenty-second official release. This release incorporates the following change: Moved Querying the Package Usage to API to Be Brought Offline.	2021-08-10
This issue is the twenty-first official release. This release incorporates the following change: Added user_name in the response parameters of the API in Querying Order Details to specify the order creator returned by the API for querying order details.	2021-07-13

What's New	Released On
 This issue is the twentieth official release. This release incorporates the following changes: Added the API for querying the resource packages of a customer in Querying Resource Packages. Added the API for querying the resource package usage in Viewing Resource Package Usage. 	2021-06-15
This issue is the nineteenth official release. This release incorporates the following change: Added Querying Available Discounts of an Order. You can invoke this API to query available discounts when paying an order.	2021-04-28
 This issue is the eighteenth official release. This release incorporates the following changes: Modified Viewing Resource Usage Details. Specifically, added parameters sku_code and region_name, which are used to return the SKU attribute and cloud service region, respectively, in the response message during an API call. Modified Viewing Resource Expenditures. Request parameters bill_date_begin and bill_date_end are added to customize the dates for querying consumption records in a billing cycle and response parameter region_name is added to return the cloud service region during an API call. 	2021-01-13
 This issue is the seventeenth official release. This release incorporates the following changes: Added Querying Measurement Units and Querying the Measurement Unit Number System. Modified the V2 interface in Viewing Resource Expenditures. Specifically, parameter charge_mode is changed from mandatory to optional. The enumerated value 17: expenditure-difference amount (min. guaranteed-actual) is added for parameter bill_type. 	2020-12-25
This issue is the sixteenth official release. This release incorporates the following change: Added the parameter discount_infos and table DiscountSimpleInfo for the API that is used for paying yearly/monthly product orders to query available discounts that can be used for paying yearly/monthly orders.	2020-12-16

What's New	Released On
This issue is the fifteenth official release.	2020-11-18
This release incorporates the following changes:	
 Added Querying Usage Types for querying usage types. 	
 Added Enabling/Canceling the Change from Yearly/Monthly to Pay-per-Use upon Expiration for querying resource types. 	
 Added the enumerated value "610: Discount amount" for parameter discount_type in Querying Orders, Querying Order Details, and Querying Summary Bills, as well as Querying Orders and Querying Order Details to be brought offline. 	
This issue is the fourteenth official release.	2020-11-04
This release incorporates the following changes:	
Added Querying Cloud Service Types (Old) for querying cloud service types.	
Added Querying Resource Types (Old) for querying resource types.	
Added Querying Resources by Cloud Service Type for querying resource list by cloud service type.	
This issue is the thirteenth official release.	2020-10-21
This release incorporates the following changes:	
Added parameter trade_id in Viewing Resource Expenditures to identify transaction or order ID.	
This issue is the twelfth official release.	2020-09-28
This release incorporates the following changes:	
 Added query parameters method and sub_customer_id in Viewing Resource Expenditures. 	
 Added query parameters method and sub_customer_id and response parameter customer_id in Viewing Resource Usage Details. 	
Supported the function of querying bill data of only a sub customer of an enterprise or a customer itself.	

What's New	Released On
This issue is the eleventh official release.	2020-09-16
This release incorporates the following changes:	
 Added response parameters product_owner_service and commercial_resource in Querying Order Details. 	
Changed the default value of measure_id in the following APIs from cent to dollar. After this modification, the unit for the values of currency-related fields is also changed to dollar. Check the currency unit in use during an API call.	
- Querying Orders	
- Querying Order Details	
 Querying the Amount of Unsubscription Orders 	
 Viewing Resource Usage Details 	
 Viewing Resource Expenditures 	
- Querying the Account Balance	
This issue is the tenth official release.	2020-09-02
This release incorporates the following changes:	
 Modified Viewing Resource Expenditures and added parameters enterprise_project_name and product_spec_desc in Table 7-11. 	
 Added error codes CBC.99006006, CBC.99006055, and CBC.99006074 in Querying the Price of a Pay- Per-Use Product and Querying the Price of a Yearly/Monthly Product 	
This issue is the ninth official release.	2020-08-12
This release incorporates the following change:	
Added a V2 API in Querying the Account Balance .	

What's New	Released On
This issue is the eighth official release.	2020-06-30
This release incorporates the following changes:	
 Added the V2 interface in Querying the Amount of Unsubscription Orders. 	
 Added the V2 interface in Querying Customer's Yearly/Monthly Resources and moved the V1 interface in Querying Customer's Yearly/Monthly Resources to API to Be Brought Offline. 	
Added the V2 interface in Enabling Automatic Subscription Renewal for Yearly/Monthly Resources and moved the V1 interface in Enabling Automatic Subscription Renewal for Yearly/Monthly Resources to API to Be Brought Offline.	
Added the V2 interface in Disabling Automatic Subscription Renewal for Yearly/Monthly Resources and moved the V1 interface in Disabling Automatic Subscription Renewal for Yearly/Monthly Resources to API to Be Brought Offline.	
This issue is the seventh official release.	2020-06-17
This release incorporates the following changes:	
 Added the V2 interface in Querying Orders and moved the V1 interface in Querying Orders to API to Be Brought Offline. 	
 Added the V2 interface in Querying Order Details and moved the V1 interface in Querying Order Details to API to Be Brought Offline. 	
 Added the V2 API for paying yearly/monthly product orders. Moved the V1 API from Paying Yearly/ Monthly Product Orders (Old) to API to Be Brought Offline. 	
 Added the V2 interface in Canceling Orders in the Pending Payment Status and moved the V1 interface in Canceling Orders in the Pending Payment Status to API to Be Brought Offline. 	
 Added the V2 interface in Renewing Subscription to Yearly/Monthly Resources and moved the V1 interface in Renewing Subscription to Yearly/ Monthly Resources to API to Be Brought Offline. 	
 Added the V2 interface in Unsubscribing from Yearly/Monthly Resources and moved the V1 interface in Unsubscribing from Yearly/Monthly Resources to API to Be Brought Offline. 	

What's New	Released On
 This issue is the sixth official release. This release incorporates the following changes: Brought the V2 API in Viewing Resource Expenditures online and the API in Viewing Resource Expenditures (Old) offline. Brought the V2 API in Viewing Resource Usage Details online and the API in Viewing Resource Usage Details (Old) offline. 	2020-04-22
This issue is the fifth official release. This release incorporates the following changes: Added Querying the Price of a Pay-Per-Use Product and Querying the Price of a Yearly/Monthly Product.	2020-03-25
This issue is the fourth official release. This release incorporates the following change: Added Querying Package Usage.	2020-01-17
This issue is the third official release. This release incorporates the following change: Added Querying the Invoice List.	2020-01-15
This issue is the second official release. This release incorporates the following change: Added the following response parameters in Querying Summary Bills: total_amount, debt_amount, coupon_amount, cashcoupon_amount, storedcard_amount, debit_amount, credit_amount, and measure_id.	2019-12-25
This issue is the first official release.	2019-09-17

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.

Table 2-1 APIs and descriptions

Scenar io	Sub- Scenari o	API Name	Description
Manag Queryin ing g product	g product	Querying Cloud Service Types	This API is used to query cloud service types on the customer self-built platform.
ts	informa tion	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.	

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	This API is used to query the price of a yearly/monthly product by criteria on the customer self-built platform.
		Querying the Renewal Price of a Yearly/ Monthly Resource	Customers can query the renewal price of a yearly/monthly resource by criteria on a self-built platform.
Manag ing accoun ts	-	Querying the Account Balance	This API can be used to query the account balance for a customer.
Manag ing transac	Managi ng coupons	Querying Coupons	Customers can query information about their coupons.
ng yearly/	yearly/ monthly	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 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.

Scenar io	Sub- Scenari o	API Name	Description
		Canceling Orders in the Pending Payment Status	A customer can invoke this API to cancel orders in the pending payment status.
		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.

Scenar io	Sub- Scenari o	API Name	Description
		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.
	Resourc e package	Querying Resource Packages	A customer can query resource packages on the self-built platform.
	manage ment	Querying the Resource Package 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.
Manag ing the enterpr ise	Manage s enterpri se projects.	Enabling the Enterprise Project Management	This API is used to enable the enterprise project management on your own platform.

Scenar io	Sub- Scenari o	API Name	Description
Manag ing invoice s	Managi ng invoices	Querying the Invoice List	Customers can query the invoice list.

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

Parameter	Description	
URI-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 operations API endpoint for customer is bss-intl.myhuaweicloud.com .	
	NOTE	
	This endpoint is a global endpoint and can be used for all regions in Huawei Cloud (International 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-intl.myhuaweicloud.com/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:

Table 3-2 HTTP methods

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.	
DELETE	Requests a server to delete a specified resource (for example, an object).	
HEAD	Requests a server resource header.	
PATCH	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-intl.myhuaweicloud.com/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.

Table 3-3 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.	bss- intl.myhuaweicloud.com or bss- intl.myhuaweicloud.com: 443

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-intl.myhuaweicloud.com/v2/partners/sub-customers Content-Type: application/json X-Auth-Token: MIIPAqYJKoZIhvcNAQcCo...qqq1BBIINPXsidG9rZ

(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-intl.myhuaweicloud.com/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": "HK",
    "xaccount_id": "35reyxxxx",
    "xaccount_type": "xxx_IDP",
    "password": "xxxxxxxxx",
    "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.

InConstructing 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

MOTE

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.

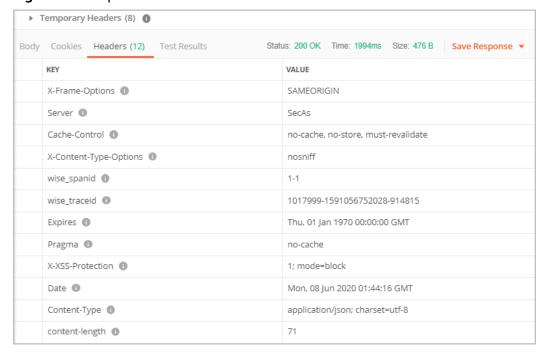


Figure 3-1 Response header for the API used to create a customer

(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:

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
   "domain_id": "08f25edee500d3e70f4ec007d082eb80",
   "domain_name": "testdomainnamexxx"
}
```

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.

□ NOTE

For APIs not listed in the table, fine-grained permission verification is not required and all customer accounts can access them.

- For more details, visit:
 - Customer Operations Capability API (International Website)

Table 3-4

Sc en ari o	Sub - Sce nari o	API Descrip tion	URL	Permis sion Code	Supported Action
M an agi ng pr	an ryin agi g ng prod	Queryin g pay- per-use product price	POST /v2/bills/ratings/on- demand-resources	bss:dis count:v iew	View discount and price information.
uc ts	a +ba		POST /v2/bills/ratings/ period-resources/subscribe- rate	bss:dis count:v iew	View discount and price information.
		Queryin g the renewal price of a yearly/ monthl y resourc e		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	API Descrip tion	URL	Permis sion Code	Supported Action
M an agi ng tra ns	Man agin g cou pon s	Queryin g coupon s	GET /v2/promotions/ benefits/coupons	bss:cou pon:vie w	View discount, cash, and flexi- purchase coupons.
io ns	Man agin g	Queryin g order lists	GET /v2/orders/customer- orders	bss:ord er:view	View order information.
	year ly/ mon thly	Queryin g order details	GET /v2/orders/customer- orders/details/{order_id}	bss:ord er:view	View order information.
	orde	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/v2/orders/customer- orders/pay	bss:ord er:pay	Pay orders.
		Queryin g support ed discoun ts of an order	GET /v2/orders/customer- orders/order-discounts	bss:dis count:v iew	View discount and price information.
		Paying a yearly/ monthl y order	POST /v3/orders/customer- orders/pay	bss:ord er:pay	Pay orders.

Sc en ari o	Sub - Sce nari o	API Descrip tion	URL	Permis sion Code	Supported Action
g fina l info tion an orde unsi ribe		financia l informa tion of	GET /v2/orders/customer- orders/refund-orders	bss:ord er:view	View order information.
	Man agin g year ly/ mon thly reso urce s	Queryin g yearly/ monthl y resourc e list	POST /v2/orders/ suscriptions/resources/ query	bss:ord er:view	View order information.
		Renewi ng subscri ption to yearly/ monthl y resourc es	POST /v2/orders/ subscriptions/resources/ renew	bss:ord er:upd ate	Place orders, cancel orders, and modify recipient information.
		Unsubs cribing from yearly/ monthl y resourc es	POST /v2/orders/ subscriptions/resources/ unsubscribe	bss:ord er:upd ate	Place orders, cancel orders, and modify recipient information.

Sc en ari o	Sub - Sce nari o	API Descrip tion	URL	Permis sion Code	Supported Action
	Enablin g automa tic renewal for yearly/ monthl y resourc es		POST /v2/orders/ subscriptions/resources/ autorenew/**	bss:ord er:upd ate	Place orders, cancel orders, and modify recipient information.
		Disablin g automa tic renewal for yearly/ monthl y resourc es	DELETE /v2/orders/ subscriptions/resources/ autorenew/{resource_id}	bss:ord er:upd ate	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:ord er:upd ate	Place orders, cancel orders, and modify recipient information.
	Man agin g reso urce pack ages	Queryin g the resourc e packag es (V3)	POST/v3/payments/free- resources/query	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	API Descrip tion	URL	Permis sion Code	Supported Action
	Queryin g resourc e packag e usage details		GET /v2/bills/customer- bills/free-resources-usage- records	bss:bill Detail: view	View expenditure details, resource expenditures, bill analysis, and historical payments.
		Queryin g the usage of a resourc e packag e	POST /v2/payments/free- resources/usages/details/ query	bss:bill: view	View bills, monthly costs, usage details, cost management, expenditures and revenues, and cost trends.
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.
		Queryin g expendi ture records	bills/res-fee-records pendi e		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.

Sc en ari o	Sub - Sce nari o	API Descrip tion	URL	Permis sion Code	Supported Action
M an agi ng th e en ter pri se	Man agin g ente rpris e proj ects	Enablin g the enterpri se project manag ement service	POST /v2/enterprises/ enterprise-projects/ authority	bss:ent erprise Project Functi on:upd ate	Enable the enterprise project management service
M an agi ng inv oic es	Man agin g invo ices	Queryin g invoice lists	GET /v1.0/{domain_id}/ payments/intl-invoices	bss:inv oice:up date	Request invoices and view invoice information.

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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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

Table 4-2 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 . 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 .

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v2/products/service-types?offset=0&limit=10 HTTP/1.1 Content-Type: application/json

X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ

X-Language: zh_CN

Response

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.

Parameter	Туре	Value Range	Description
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.

```
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

- 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	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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

URI

GET /v2/products/resource-types

Table 4-4 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 4-5 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 . 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 .

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/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

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.
resource_t ype_desc	String	A maximu m of 200 charact ers	Resource type description.

Parameter	Туре	Value Range	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.

```
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

- 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	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.

Debugging

You can debug the API in API Explorer which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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 00	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 records queried each time. The default value is 10 . This parameter cannot be left empty.

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/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

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.

```
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",
```

```
"name": "ECS",
    "description": "ECS"
    }
    }
}
```

Returned Values

■ 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 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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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

Table 4-12 Query parameters

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 Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/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

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.

Parameter	Туре	Value Range	Description
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.
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 .

```
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.service.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

- 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.
- 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	
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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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 Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v2/bases/measurements HTTP/1.1 Content-Type: application/json

X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ

X-Language: zh_CN

Response

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.
ype			• 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
			• 27: Number of cores x Duration
			• 28: Memory x Duration
			• 29: IOPS x Duration
			• 30: Throughput x Duration
			• 31: Number/Duration
			• 40 : Traffic (1000)
			• 41: 1K tokens

```
{
    "measure_id": 1,
    "measure_name": "USD",
    "abbreviation": "YDollar",
    "measure_type": 1
},
{
    "measure_id": 10,
    "measure_name": "GB",
    "abbreviation": "G",
    "measure_type": 3
}
```

Returned Values

Ⅲ 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.
- 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
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.

Debugging

You can debug the API in API Explorer which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

URI

GET /v2/bases/conversions

 Table 4-16 Request parameters

Paramete r	Manda tory	Туре	Value Range	Description
measure_t	No	Integer	-	Measurement type.
ype				• 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
				• 27: Number of cores x Duration
				• 28: Memory x Duration
				• 2 9: IOPS x Duration
				• 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.

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v2/bases/conversions?measure_type=3 HTTP/1.1

Content-Type: application/json X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ

Response

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.
ype			• 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
			• 27: Number of cores x Duration
			• 28: Memory x Duration
			• 29: IOPS x Duration
			• 30: Throughput x Duration
			• 31: Number/Duration
			• 40 : Traffic (1000)
			• 41: 1K tokens

```
{
    "measure_id": 0,
    "ref_measure_id": 5,
    "conversion_ratio": 1440,
    "measure_type": 2
    }
  ]
}
```

Returned Values

∩ 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.
- 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
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 self-built 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.



HUAWEI CLOUD allows you to query products by service type, service region, resource type, and resource specification. Ensure that you enter correct criteria for search. Otherwise, the API returns an error indicating that the product cannot be found.

Constraints

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

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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 1.0000000001.
				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	Туре	Value	Description
Tarameter	tory	Турс	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 19_sbgp: static BGP bandwidth 19_sbgp: static BGP bandwidth 19_share: shared bandwidth billed by bandwidth 19_share: shared bandwidth 19_share: shared bandwidth billed by bandwidth Spgp: dynamic BGP public IP address: 5_bgp: dynamic BGP public IP address SATA: common I/O EVS disk SAS: high I/O EVS disk GPSSD: general-purpose SSD EVS disk SSD: ultra-high I/O EVS disk ESSD: extreme SSD GPSSD2.storage: general-purpose SSD V2 storage GPSSD2.iops: general-purpose SSD V2 iops

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, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints .
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.
е		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	Available zone ID. Available zone IDs are case-insensitive.
			um of 64 charact ers	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	Resource capacity measurement ID. The options are:
			um of 4 charact ers	• 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-intl.myhuaweicloud.com/v2/bills/ratings/on-demand-resources HTTP/1.1 Content-Type: application/json

```
X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ
   "project_id": "06488a******832f55c016b0e337d7",
   "product_infos": [
      {
         "cloud_service_type": "hws.service.type.ec2",
         "resource_type": "hws.resource.type.vm", "resource_spec": "c3.3xlarge.2.linux",
         "region": "ap-southeast-1",
         "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": "ap-southeast-1",
"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": "ap-southeast-1",
"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": "ap-southeast-1",
         "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
      }
   "inquiry_precision": 1
```

Response

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 list price and 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 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.

```
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": []
     },
     {
        "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

- 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.
- 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.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

This API is used to query the price of a yearly/monthly product by criteria on the customer self-built 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 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.

<u>A</u> CAUTION

HUAWEI CLOUD allows you to query products by service type, service region, resource type, and resource specification. Ensure that you enter correct criteria for search. Otherwise, the API returns an error indicating that the product cannot be found.

Constraints

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

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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 Obtain it in the following way: • 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 19_sbgp: static BGP bandwidth 19_sbgp: static BGP bandwidth 19_share: shared bandwidth billed by bandwidth 19_share: shared bandwidth Paddress: 5_bgp: dynamic BGP public IP address RDS: You can call the API for querying database specifications to obtain the RDS specifications. DCS: You can call the API for querying service specifications to obtain the DCS 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, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints .
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. Obtain the value from the Availability Zone (AZ) column in Regions and Endpoints. 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-intl.myhuaweicloud.com/v2/bills/ratings/period-resources/subscribe-rate HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ
  {
       "id": "1",
    "cloud_service_type": "hws.service.type.ec2",
    "resource_type": "hws.resource.type.vm",
"resource_spec": "s3.medium.4.linux",
    "region": "ap-southeast-1",
```

```
"available_zone": "ap-southeast-1a",
  "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": "ap-southeast-1",
  "available_zone": null,
  "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": "ap-southeast-1",
  "available_zone": "ap-southeast-1a",
  "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": "ap-southeast-1",
"available_zone":"ap-southeast-1a",
"resource_size": 40,
  "size_measure_id": 15,
  "period_type": 2,
  "period num": 1,
  "subscription_num": 1
]
```

Response

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	OfficialWe bsiteRatin gResult Object	-	Queried price listed on the official website for the 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 	-	Queried price of the yearly/monthly product. For details, see Table 4-23 .

 Table 4-23 PeriodProductOfficialRatingResult

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	Measurement unit ID. • 1: USD

 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 .

Table 4-25 PeriodProductRatingResult

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

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": 623.78,
      "installment_official_website_amount": null, "installment_period_type": null,
      "measure_id": 1,
      "product_rating_results": [
         {
            "id": "1",
            "product_id": "00301-18008-0--0",
            "official_website_amount": 27.2,
            "measure_id": 1,
            "installment_official_website_amount": null,
            "installment_period_type": null
            "id": "2",
            "product_id": "00301-03001-0--0",
```

```
"official_website_amount": 0,
        "measure_id": 1,
        "installment_official_website_amount": null,
        "installment_period_type": null
        "id": "3",
        "product_id": "00301-170006-0--0",
        "official_website_amount": 5.28,
        "measure_id": 1,
        "installment_official_website_amount": null,
        "installment_period_type": null
     },
        "product_id": "00301-34543-0--0",
        "official_website_amount": 591.3,
        "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.
- 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.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.

Ⅲ 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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug SDK code samples.

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
_103		rig ²		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.

Paramet er	Mand atory	Parame ter Type	Value Range	Description
period_ty pe	Yes	Integer	[2 3]	Period type: • 2: Month • 3: Year
period_n um	Yes	Integer	[1-11]	Number of periods: • Month: 1 to 11 • Year: 1 to 3

```
\label{lem:comple} \textbf{Request Sample} \\ \textbf{POST https://bss-intl.myhuaweicloud.com/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
```

Response

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
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 .

Parameter	Parameter Type	Value Range	Description
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 		List of resources which the renewal prices failed to be queried for For details, see Table FailResourceInfo.

Table 4-26 RenewInquiryResultInfo

Parameter	Parameter Type	Description
resource_id	String	Resource ID.
amount	String	Renewal price of primary resources and their attached resources Unit: USD

 Table 4-27 OfficialWebsiteRatingResult

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

 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	 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
discount_na me	String	A maximu m of 256 character s	Discount name

Parameter	Paramete r Type	Value Range	Description
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.

Table FailResourceInfo

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_amount": "800.0",
        "installment_official_website_amount": null,
        "installment_period_type": null
},
    "optional_discount_rating_results": [],
    "fail_resource_infos": []
```

Status Codes

□ NOTE

- 4xx: 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.
- 5xx: 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
400	CBC.990060 73	Project not found

HTTP Status Code	Error Code	Description
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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

URI

GET /v2/accounts/customer-accounts/balances

Request Message

Request parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v2/accounts/customer-accounts/balances HTTP/1.1 Content-Type: application/json X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggq1BBIINPXsidG9rZ

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. When account_type is set to 2 , the total credit limit is returned instead of the remaining credit.

Parameter	Туре	Value Range	Description
currency	String	-	Currency. The options are as follows: USD: US dollar
designated_a mount	Bigdecimal	-	Balance of earmarked funds.
credit_amoun t	Bigdecimal	-	Total credit limit. This field is available only for credit accounts.
measure_id	Integer	-	Measurement unit. • 1: Dollar

Example Response

```
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,
  "measure_id": 1,
   "currency": "USD"
```

Returned Values

□ 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.
- 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.0100	Parameter error.
400	CBC.9900004 9	BindType cannot be resale.
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.

Customers can follow the instructions described in **Viewing Cash Coupons** to view the coupons in Billing Center.

□ NOTE

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

Constraints

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

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

URI

GET /v2/promotions/benefits/coupons

The following table describes the parameters.

Table 6-1 Request 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	[1-4]	Customer coupon status. 1: Inactivated 2: To be used 3: Used 4: Expired If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. NOTE Data for up to 12 months is returned for expired coupons.

Paramete r	Manda tory	Туре	Value Range	Description
active_star t_time	No	String	A maximu m of 64 character s	Activation time. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of HH is 0-23, and the range of mm and ss 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	End time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of HH is 0-23, and the range of mm and ss 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. This parameter must be used together with limit. 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 in the request parameters or is left empty, 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-intl.myhuaweicloud.com/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 .

 Table 6-2 IQueryUserCouponsResult

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.

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:
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

Key	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.

Key	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.

Key	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 .

Key	Meaning	Description	Remarks
usageTimes	Whether coupons can be used for multiple times.	The value is specified in value1. The value can be: O: Used for unlimited times T: Used for only once N: Used for N times. (For cash coupons of the old version, N 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.

Key	Meaning	Description	Remarks
isRebate	Whether coupons are counted in to the partner incentive rebates.	The value is specified in value1. The value can be: O: 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.

Key	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.

Example Response

```
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": "532USDCoupon name",
    "plan_desc": "532USDCoupon 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

- 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 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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

URI

GET /v2/orders/customer-orders

Table 6-5 Query parameters

Param eter	Manda tory	Туре	Value Range	Description
order_	No	String	А	Order ID. Order IDs are case insensitive.
id			maximu m of 64 characte rs	If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. NOTE When special characters are used for query, perform the URL code conversion. For example, % should be converted to %25.
custo	No	String	Α	Customer account ID.
mer_i d		J	maximu m of 64 characte rs	If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion.
create	No	String	А	Start time of order creation.
time begin			maximu m of 20 characte	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.
				If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. The range queried cannot exceed one year.
create	No	String	Α	End time of order creation.
time end			maximu m of 20 characte	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.
				If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. The range queried cannot exceed one year.
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 in the request parameters or is left empty, it cannot be used as a filter criterion.

Param eter	Manda tory	Туре	Value Range	Description
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 in the request parameters or is left empty, it cannot be used as a filter criterion.
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 in the request parameters or is left empty, it cannot be used as a filter criterion.
limit	No	Integer	1 to 100	Number of orders queried each time. 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.

Param eter	Manda tory	Туре	Value Range	Description
offset	No	Integer	0 to a maximu	Offset, which starts from 0. The default value is 0 .
			m integer	If this parameter is not included in the request parameters, is set to "", or is set to null , the default value 10 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.
order_ by	No	String	A maximu	Sorting order of the orders. This parameter is case insensitive.
		m of 36 characte	You can sort the orders by creation time.	
			rs	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 in the request parameters or is left empty, it cannot be used as a filter criterion.
payme	No	String	A	Start time of order payment.
nt_tim e_begi n	_ _begi		maximu m of 20 characte rs	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. The range queried cannot exceed one year.

Param eter	Manda tory	Туре	Value Range	Description
payme nt_tim e_end	No	String	A maximu m of 20 characte rs	End 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. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. The range queried cannot exceed one year.

Request

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/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=-

 $create Time \& payment_time_begin = 2020-05-06 T08:05:01Z \& payment_time_end = 2020-05-07 T08:05:01Z \\ HTTP/1.1$

Content-Type: application/json

X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...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
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

Parameter	Туре	Maximu m Length	Description
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.
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.

Parameter	Туре	Maximu m Length	Description
contract_id	String	A maximu m of 64 character s	Contract ID.
amount_inf o	AmountInf oV2 Object	-	Order details For details, see Table 6-7 .

Table 6-7 AmountInfoV2

Parameter	Туре	Value Range	Description
discounts	List <disco untItemV2 ></disco 	-	Item For details, see Table 6-8 .
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	-	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	 200: Promotion product discount 300: Promotion discount coupon 301: Promotion coupon 302: 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 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": "CS1905251035OA1AF",
     "customer_id": "17a80a9f9d3949ddb60ee73a5b3c9618",
     "service_type_code": "hws.service.type.rds",
     "source_type": 1,
     "status": 5,
     "order_type": 1,
     "amount_after_discount": 0,
     "official_amount": 100,
     "measure_id": 1,
     "create time": "2020-05-06T09:08:03Z",
     "payment_time": "2020-05-06T09:08:03Z",
     "currency": "USD",
"contract_id": null,
     "amount_info": {
        "discounts": [
             "discount_type": "700",
             "discount_amount": 15
             "discount_type": "302",
              "discount_amount": 85
       ],
"flexipurchase_coupon_amount": 85,
        "coupon_amount": 0,
        "stored_card_amount": 0,
        "commission_amount": null,
        "consumed_amount": null
  }]
```

Returned Values

Ⅲ 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.
- 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.0100	Parameter error.	
400	CBC.0101	Invalid parameter.	
400	CBC.300000 10	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.	

6.2.2 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.

Debugging

You can debug the API in API Explorer which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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.

Table 6-10 Query parameters

Parameter	Mandatory	Value Range	Description
offset	No	0 to a maximum	Offset, which starts from 0. The default value is 0 .
		integer	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 6-11 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-intl.myhuaweicloud.com/v2/orders/customer-orders/details/CS19040119281JMYC?

limit=10&offset=0 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	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.

Table 6-13 OrderLineItemEntityV2

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
subscription _num	Integer	-	of <i>mm</i> and <i>ss</i> is 0-59. 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.

Table 6-14 AmountInfoV2

Parameter	Туре	Value Range	Description
discounts	List <disco untItemV2 ></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

Parameter	Туре	Val ue Ra nge	Description
discount_ty pe	String	A ma xim um of 8 cha ract ers	 200: Promotion product discount 300: Promotion discount coupon 301: Promotion coupon 302: 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": 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": [
   {
      "order_line_item_id": "CS18122203217MRPB-000001", "service_type_code": "hws.service.type.ebs", "product_id": "00301-01026-0--1",
      "product_spec_desc": "High 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 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

- 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.
- 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.0100	Parameter error.
400	CBC.0101	Invalid parameter.
400	CBC.300000 10	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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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-intl.myhuaweicloud.com/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 .

Table 6-17 DiscountInfoV3

Parameter	Туре	Value Range	Description
discount_id	String	A maximum of 64 characters	ID of the available order discount. 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:
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.

Table 6-19 OrderLineItemV3

Parameter	Туре	Value Range	Description
order_line_ite m_ids	List <string></string>	A maximum of 1000 IDs	List of the IDs of the combined order items that can use the same discount.
			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.

```
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
                }
```

Returned Values

- 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.
- 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.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 coupons, commercial discounts, and partner-authorized discounts cannot be used together.
 - 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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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.
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.

Paramete r	Mand atory	Туре	Maxim um Length of Charac ters	Description
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.
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.

Paramet er	Manda tory	Туре	Maxim um Length of Charac ters	Description
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)

Table 6-21 DiscountSimpleInfo

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

Example Request

```
POST https://bss-intl.myhuaweicloud.com/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
        }
    ],
```

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 maximu m of 256 character s	Error description.
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.

Parameter	Туре	Maximu m Length of Charact ers	Description
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, apsoutheast-1. Obtain the value from the Region column in Regions and Endpoints .
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_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 \$2.5mall.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 .

Parameter	Туре	Description
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	String	AZ ID.
one		For details, see the AZ names of regions listed on the Regions and Endpoints , for example, cn-north-1a .

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: The fund quota is insufficient./The project is invalid. 11: The organization budget quota is insufficient.

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

Returned Values

□ 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.
- 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 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.
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.

HTTP Status Code	Error Code	Description
400	CBC.99003198	Insufficient budget of the organization.
400	CBC.99005003	Insufficient balance.
400	CBC.99005036	Payment via API not allowed for this customer. (Payment by balance and monthly-settled payment are not allowed.)
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.

◯ NOTE

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

Constraints

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

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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-intl.myhuaweicloud.com/v2/orders/customer-orders/cancel HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...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

- 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.
- 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.0100	Parameter error.	
400	CBC.9900501	Orders in this state cannot be canceled.	
403	CBC.0151	Access denied.	
500	CBC.0999	Other errors.	
400	CBC.9900008	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.

Ⅲ 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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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-intl.myhuaweicloud.com/v2/orders/customer-orders/refund-orders? order_id=CS1904190917GIBHC HTTP/1.1 Content-Type: application/json

X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...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.	
amount	BigDecimal	 Amount. A negative number indicates the unsubscription amount. A positive number indicates the handling fee for unsubscription. 	

Parameter	Туре	Description	
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, apsoutheast-1. Obtain the value from the Region column in Regions and Endpoints .	
base_order _id	String	ID of the original order corresponding to the unsubscription amount, consumption amount, or unsubscription handling fee.	

Status Code

◯ 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 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 the parameter is left empty, for example, no parameter is transferred, the
 value is null, the value is an empty JSON array, or the value is an empty
 string, a specified number of resources (specified by limit, which is 10 by
 default) are returned for the user.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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	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>	[0-10]	Queries resources in a specified status. If there are multiple statuses, separate them using commas (,).
				• 2: Provisioned
				• 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 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.

Example Request

POST https://bss-intl.myhuaweicloud.com/v2/orders/suscriptions/resources/query HTTP/1.1 Content-Type: application/json

```
X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...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"
}
```

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

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, apsoutheast-1. Obtain the value from the Region column in Regions and Endpoints .	

Para mete r	Туре	Description	
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	
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	

Para mete r	Туре	Description	
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. 	

```
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": "0A063A11905F42BC8548E65D0089A905name",
    "region_code": "ap-southeast-1",
    "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

- 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 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.

∩ 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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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: month 3: year
perio d_nu m	Yes	Integer	1 to 11	Number of periods. • Month: 1 to 11 • Year: 1 to 3
expire _polic y	Yes	Integer	O to 3 Expiration policy. This field has been discarded. Do not use this field. This parameter cannot be left empty and needs to be carried. The carried enumeration does not take effect. O: 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 in the request parameters or is set to null, the default value is 0 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

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.
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	body	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.	

```
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

- 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.
- 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.0100	Parameter error.	
400	CBC.300100 36	Renewal is only supported for primary resources.	
400	CBC.300500 06	Automatic order payment failed.	
400	CBC.990000 92	Incorrect subscription period.	
400	CBC.990031	This operation is not allowed because some resources are included in your orders to be paid.	

HTTP Value	Error Code	Description	
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	Resources have being unsubscribed from or changed.	
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.

□ 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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

URI

POST /v2/orders/subscriptions/resources/unsubscribe

Request

Request Parameters

Param eter	Manda tory	Туре	Value Range	Description
resour ce_ids	Yes	List <str ing></str 	A maxi mum 10 IDs	Resource 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 scribe_ type	Yes	Integer	1, 2	 Unsubscription type. The value can be: 1: Unsubscribe from the resource and its renewal periods. 2: Unsubscribe from only the resource renewal periods.
unsub scribe_ reason _type	No	Integer	1 to 5	 Unsubscription cause. The value can be: 1: The product is of poor usability. 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

Param eter	Manda tory	Туре	Value Range	Description
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-intl.myhuaweicloud.com/v2/orders/subscriptions/resources/unsubscribe HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...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.

```
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

- 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 Value	Error Code	Description
400	CBC.0100	Parameter error.
400	CBC.300000 52	The resources or account has been frozen.
400	CBC.300100 35	Resource deleted.
400	CBC.990030 12	The resource ID does not exist.
400	CBC.990031	This operation is not allowed because some resources are included in your orders to be paid.

HTTP Value	Error Code	Description
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	Unsubscription not supported for resources frozen due to security reasons.
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.
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 long-term 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.

■ NOTE

- 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 your is sufficient. If the first attempt to deduct the fee fails due to the , 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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

URI

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

The following table describes the parameters.

Table 6-32 Path parameters

Param eter	Manda tory	Value Range	Description	
resourc	Yes	А	Resource ID.	
e_id		maxim um of 64	um of 64	You can obtain the resource ID by invoking the API described in Querying Customer's Yearly/Monthly Resources.
		charact ers	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.	

Request

Request Parameters

None

Example Request

POST https://bss-intl.myhuaweicloud.com/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

□ 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.
- 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.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.

□ 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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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-intl.myhuaweicloud.com/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

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

- 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.
- 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.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.

MOTE

- 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.

Debugging

You can debug the API in API Explorer which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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-peruse 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-intl.myhuaweicloud.com/v2/orders/subscriptions/resources/to-on-demand HTTP/1.1 Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
    "operation":"SET_UP",
    "resource_ids":["0c3248018ed54b1e8e3ecbab1b0989ce"]
}
```

Response

Response Parameters

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 1000 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 1000 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

□ 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.
- 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.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-peruse.
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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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	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, for example, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints. 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.

Paramete r	Manda tory	Туре	Value Range	Description
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.
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.

Paramete r	Manda tory	Туре	Value Range	Description
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.
limit	No	Integer	(1, 1000)	Number of records queried each time. The default value is 10 .

Example Request

```
POST https://bss-intl.myhuaweicloud.com/v3/payments/free-resources/query HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ

{
    "region_code": "cn-north-7",
    "order_id": "CS21043011259RWXXTA",
    "product_id": "90301-296014-0--0",
    "product_id": "HUAWEI CLOUD WeLink",
    "enterprise_project_id": null,
    "status": 1,
    "offset": 0,
    "limit": 10
```

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_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.

Parameter	Туре	Value Range	Description
enterprise_pr oject_id	String	A maxim um of 64 charact ers	Enterprise project ID.
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 .

Parameter	Туре	Value Range	Description
region_code	String	A maxim um of 64 charact ers	Cloud service region code, for example, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints.
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-peruse 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

Dawanasatan	Downwater Time Value Description				
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.		
usage_type_ name	String	A maximu m of 1024 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.		

Returned Values

◯ 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.
- 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 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.



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

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

URI

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

Table 6-38 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
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-intl.myhuaweicloud.com/v2/payments/free-resources/usages/details/query HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ

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

Response

Response Parameters

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_type to 2, and you purchase this resource package on the 15th day of the month, then the 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	-	 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.

Returned Values

- 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.
- 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 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.

Debugging

You can debug the API in **API Explorer**. Automatic authentication is supported. API Explorer can automatically generate and debug example SDK code.

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 in the request parameters or is left empty, it cannot 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 in the request parameters 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 in the request parameters or is left empty, it cannot 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-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 YYYY-MM-DD 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 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-intl.myhuaweicloud.com/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: MIIPAgYJKoZlhvcNAQcCo...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 yyyy-MM- ddT'HH.mm.ss'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).

Example Response

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

- 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.

Managing Bills

7.1 Querying Summary Bills

You can query data from the past three years.

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.

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.

You can debug the API in API Explorer which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

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.

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	-	 O: ID of a default project - 1: The service does not support enterprise project management. If this parameter is not included in the request 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-intl.myhuaweicloud.com/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

Response Parameters

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/Dollar
		• 3: 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.
resource_type _name	String	Resource type. For example, the resource type of ECS is Cloud Host .
cloud_service_ type_name	String	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
consume_tim e	String	Expenditure data collection period. GMT+08:00 and format: YYYY-MM Example: 2018-05

Parameter	Туре	Description
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 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 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 6 is returned, all resources are
consume_am ount	Bigdecimal	billed in savings plan-discount mode. 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

Parameter	Туре	Description
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 ectId	String	 Enterprise project ID. O: 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 BalanceTypePay

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.

Table 7-5 DiscountDetailInfo

Parameter	Туре	Description
promotion_ty	String	Discount type.
pe		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
		611: savings plan
		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.

Example Response

```
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
},
{
    "balance_type_id": "BALANCE_TYPE_STORED_VALUE_CARD",
    "deduct_amount": 0
}
],
    "discount_detail_infos": [],
    "enterpriseProjectId": "0"
}
]
```

Status Code

Ⅲ 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.
- 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.

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**.

• You can query data from the past three years.

Constraints

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

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

URI

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

Table 7-6 Header parameters

Paramet er	Man dato ry	Maximum Length	Description
X-	No	10	Language.
Languag			• zh_CN: Chinese
e			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, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints. 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 11: savings plan 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 23: savings plans used 24: refund-changing to Pay-Per-Use 100: refund-unsubscription tax 101: adjustment-tax compensation 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 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 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	 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 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]	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, this parameter cannot be left empty and the month must be the same with the billing cycle.
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, this parameter cannot be left empty.

Example Request

```
POST https://bss-intl.myhuaweicloud.com/v2/bills/customer-bills/res-records/query HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ

{
    "cycle": "2018-12",
    "cloud_service_type": "hws.service.type.ec2",
    "resource_type": "hws.resource.type.vm",
    "region": "ap-southeast-1",
    "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
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 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 23: savings plans used 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	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, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints .
region_name	String	64	Region name, for example, CN- Hong Kong. Obtain the value from the Region column in Regions and Endpoints
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.

Parameter	Туре	Maximum Length	Description
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
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 • 11: savings plan
consume_amo unt	BigDecimal	-	Consumption amount of a cloud service, including the amount of cash coupons and that of flexipurchase 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.

Parameter	Туре	Maximum Length	Description
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.
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

Parameter	Туре	Maximum Length	Description
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	64	Unique ID. This parameter is reserved.
product_spec_ desc	String	-	Product specification 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 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": "ap-southeast-1",
              "region_name": "CN-Hong Kong",
     "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

■ 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.
- 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.0100	Parameter error.
403	CBC.0151	Access denied.
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 expenditures by referring to **Resource**Expenditures.

There is an hour-level delay for resource expenditure details.

□ 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.

Debugging

You can debug the API in **API Explorer** which supports automatic authentication. API Explorer can automatically generate and debug example SDK code.

URI

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

The following table describes the parameters.

Table 7-9 Message header parameter

Parameter	Manda tory	Туре	Maximu m Length	Description
X-Language	No	String	10	Language. en_US: English zh_CN: Chinese

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/monthly
				• 3: Pay-per-use
				10: Reserved instances
				• 11: savings plan
				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.

Parameter	Manda tory	Туре	Maximu m Length	Description
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, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints.
				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 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 23: savings plans used 24: refund-changing to Pay-Per-Use 100: refund-unsubscription tax 101: adjustment-tax compensation 102: adjustment-tax deduction If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion.

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 in the request parameters 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	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.
				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.

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.

Request Message

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/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 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.

Parameter	Туре	Maximum Length	Description
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
			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
			23: savings plans used
			• 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, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints .
region_name	String	64	Region name, for example, CN- Hong Kong. Obtain the value from the Region column in Regions and Endpoints
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	64	Unique ID
trade_time	String	32	Transaction time
enterprise_proje ct_id	String	128	 Enterprise project ID. 0: ID of a default project null: The service does not support enterprise project management.

Parameter	Туре	Maximum Length	Description
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 11: savings plan
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: Year20: Month24: Day25: Hour5: 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.
usage_measure _id	Integer	-	Resource usage measurement unit, which can be obtained by calling the API described in Querying Measurement Units.
free_resource_u sage	BigDecima l	-	Package usage.
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).

Parameter	Туре	Maximum Length	Description
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 downsizing, specification downsizing, specification upgrade, capacity expansion, and payper-use Simple pricing
unit	String	64	 The unit of unit price. The unit of linear products is USD/{linear unit}/month or USD/{linear unit}/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.
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.

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

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

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.
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 HTTP/1.1 200 OK

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

```
Content-Length: length
Date: response time
   "fee_records": [
     {
        "bill_date": "2020-12-21",
        "bill_type": 3,
        "customer_id": "8caf348df5fa4529aba5aea760608845",
        "region": "ap-southeast-1",
        "region_name": "CN North-Beijng1",
        "cloud_service_type": "hws.service.type.ebs",
        "resource_type": "hws.resource.type.volume", "effective_time": "2020-12-21T07:34:32Z",
        "expire_time": "2022-12-21T15:59:59Z",
        "resource_id": null,
        "resource_name": null,
        "resource_tag": null,
"product_id": "90301-686007-0--0",
        "product_name": ""
        "product_spec_desc": "",
        "sku_code": "SAS",
        "spec_size": 300.0,
        "spec_size_measure_id": 17,
        "trade_id": "CS2012211533IQJR1",
        "id": "037e8a2b-bde9*****eb5153cba_1",
      "trade_time": "2020-06-10T19:03:28Z",
        "enterprise_project_id": "0",
        "enterprise_project_name": "default",
        "charge_mode": "1"
        "order_id": "CS2012211533IQJR1",
        "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": 2516.0,
        "discount_amount": 452.88,
        "amount": 2063.12,
        "cash amount": 2063.12,
        "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]"
     {
        "bill_date": "2020-12-21",
"bill_type": 1,
        "customer_id": "8caf348df5fa4529aba5aea760608845",
        "region": "cn-north-1",
        "region_name": "CN North-Beijng1",
        "cloud_service_type": "hws.service.type.ebs",
        "resource_type": "hws.resource.type.volume",
```

```
"effective_time": "2020-12-21T07:28:12Z",
        "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": "CS2012211528IP5Q1",
        "id": "037e8a2b-bde9-*****-5f9eb5153cba 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,
        "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]"
     }
  1,
   "total_count": 40,
   "currency": "USD"
```

Status code

Ⅲ 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.
- 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.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.

Debugging

You can debug this API API Explorer.

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

Paramete r	Manda tory	Туре	Value Range	Description
key	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

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 SPLIT_ITEM_NAME: split item NOTE When the cost type is ORIGINAL_COST, split items cannot be used to query costs.
value	Yes	List <stri ng></stri 	Minim um count: 1 Maxim um count: 100	Filter value.

Example Request

```
POST https://bss-intl.myhuaweicloud.com/v4/costs/cost-analysed-bills/query HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...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.
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

autic o o costada y simension					
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.		

Table 8-7 DimensionGroup

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 SPLIT_ITEM_NAME: Split item
value	String	-	Dimension.

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

Parameter	Туре	Value Range	Description
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.
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
  "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"
  ]
```

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.
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.
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.

Debugging

You can debug this API in **API Explorer**. Automatic authentication is supported. API Explorer can automatically generate and debug SDK code examples.

URI

POST /v2/enterprises/enterprise-projects/authority

Request

Request parameters

None.

Example request

POST https://bss-intl.myhuaweicloud.com/v2/enterprises/enterprise-projects/authority HTTP/1.1 Content-Type: application/json

X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...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 or customers whose accounts are verified to be of enterprise type 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

- 4xx: 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.
- 5xx: 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 Invoice Management

10.1 Invoice Management

10.1.1 Querying the Invoice List

Function

Customers can query the invoice list.

Log in to Billing Center, and choose **Invoices** in the left navigation pane. The invoice list is displayed.

Constraints

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

Debugging

You can debug the API in **API Explorer**. Automatic authentication is supported. API Explorer can automatically generate and debug example SDK code.

URI

GET /v1.0/{domain id}/payments/intl-invoices

Paramete	Manda	Value	Description
r	tory	Range	
domain_id	Yes	A maximu m of 64 characte rs	Customer account ID. For details, see How Do I Obtain Customer's customer_id and domain_id Values?

Table 10-1 Request parameters

Parameter	Mandat ory	Туре	Value Range	Description
start_time	Yes	String	A maximu m of 64 character s	Invoice application start time UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, for example, 2019-05-06T08:05:01Z.
end_time	Yes	String	A maximu m of 64 character s	Invoice application end time UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, for example, 2019-05-06T08:05:01Z.
offset	Yes	Integer	[1-99999	Page number.
limit	Yes	Integer	[1-100]	Number of records displayed per page.

Request Message

Request parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/payments/intl-invoices? start_time=2019-01-28T11:48:41Z&end_time=2019-12-28T11:48:41Z&offset=1&limit=10 Content-Type: application/json

X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ

Response Message

Response Parameters

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

Parameter	Туре	Value Range	Description
error_msg	String	A maxim um of 1000 charact ers	Error description. This parameter is returned only when the query failed.
count	Integer	-	Number of records. This parameter is returned only when the query is successful.
invoices	List <intlinv oiceReque stInfo></intlinv 	-	Invoice list. For details, see Table 10-2 .

Table 10-2 IntlInvoiceRequestInfo

Parameter	Туре	Value Range	Description
requestId	String	A maxim um of 64 charact ers	Request ID
cancelReaso n	String	A maxim um of 256 charact ers	Rejection reason
titleType	Integer	[0-1]	Title type • 0: Individual customer • 1: Corporate customer
channelType	Integer	-	Channel type 0 : HUAWEI CLOUD
invoiceType	Integer	[0-1]	Invoice type • 0: Special VAT invoice • 1: General VAT invoice

Parameter	Туре	Value Range	Description
invoiceTitle	String	A maxim um of 1024 charact ers	Invoice title
invoiceAmou nt	Number	-	Invoiced amount (USD)
invoiceMeth od	Integer	[0-2]	 Invoicing method 0: Invoicing by bill 1: Invoicing by payment 2: Invoicing by order
invoiceClass	Integer	[0-1]	Invoice type • 0: Tax invoice • 1: Business invoice
invoiceState	Integer	-	 Invoicing state 0: Draft 1: Waiting for the first trial 4: Waiting for the export invoice file 5: Waiting for the invoice file backfile 6: Waiting for the mail confirmation 7: Waiting for receipt confirmation 8: Complete 9: Refunded 11: Waiting for rebut audit 13: Invoice return audit 14: Waiting return cis notify 15: Invoice return failed
applyOpera	String	A maxim um of 32 charact ers	Invoice applicant
addressInfo	PostAddres sInfoIntl	-	Address information. For details, see Table 10-3.

Parameter	Туре	Value Range	Description
applyTime	String	A maxim um of 64 charact ers	Application time (UTC time)
invoiceMode	String	0	Invoice type 0 : Paper invoice
email	String	A maxim um of 400 charact ers	Email receiving the electronic invoice
requestMode	String	[0-2]	 Application type 0: Invoice creation application 1: Invoice return application 2: Invoice change application
srcRequestId	String	A maxim um of 64 charact ers	Original application ID when the invoice is returned
salesId	String	A maxim um of 64 charact ers	Signing entity ID
invoiceNo	String	A maxim um of 32 charact ers	Invoice number

Parameter	Туре	Value Range	Description
tradeType	Integer	-	 Transaction type 3: Settlement by credit card 4: Settlement by billing 5: Invoicing by payment 6: BP settle by billing 7: Invoicing by recharge 8: Order payment online 10: Invoicing by refund
billCycle	String	A maxim um of 64 charact ers	Billing cycle
taxList	List <taxinf o></taxinf 	-	Tax information list. For details, see Table 10-4.

Table 10-3 PostAddressInfoIntl

Parameter	Туре	Value Range	Description
address	String	A maximu m of 1024 charact ers	Recipient address
recipients	String	A maximu m of 1024 charact ers	Recipient
zipCode	String	A maximu m of 256 charact ers	Post code of the recipient address

Parameter	Туре	Value Range	Description
mobilePhone	String	A maximu m of 256 charact ers	Recipient mobile number

Table 10-4 TaxInfo

Parameter	Туре	Value Range	Description
taxClass	String	A maxim um of 64 charact ers	Tax type • VAT • ISS • WHT • GST
taxRate	String	A maxim um of 64 charact ers	Tax rate
subTaxClass	String	A maxim um of 64 charact ers	Tax subtype PIS COFINS CGST SGST IGST WHT VAT
taxAmount	Number	-	Tax amount Unit: USD (\$)

Example Response

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

```
"count": 2,
"invoices": [
  {
      "requestId": "IV19122807N6S5",
      "cancelReason": null,
     "titleType": 1,
     "channelType": 0,
     "invoiceType": 1,
"invoiceTitle": "Dream666",
     "invoiceAmount": 102.0,
      "invoiceMethod": 1,
      "invoiceClass": 1,
     "invoiceState": 8,
      "applyOpera": "******"
     "addressInfo": {
    "address": "*******",
         "recipients": "Wang**",
         "zipCode": "10****"
         "mobilePhone": "188****8888"
     },
"applyTime": "2019-12-28T07:02:03Z",
      "invoiceMode": "1",
      "email": "***@163.com",
     "requestMode": "0",
      "srcRequestId": null,
      "salesId": "1351",
     "invoiceNo": "CSER191001322",
     "tradeType": 5,
"billCycle": "201912",
"taxList": [
        {
            "taxClass": "WHT",
"taxRate": "0.01",
            "subTaxClass": "WHT",
            "taxAmount": 1.0
        },
            "taxClass": "VAT",
            "taxRate": "0.01",
            "subTaxClass": "VAT",
            "taxAmount": 1.0
        }
     ]
  },
      "requestId": "IV19122806VJF8",
      "cancelReason": null,
     "titleType": 1,
     "channelType": 0,
     "invoiceType": 1,
"invoiceTitle": "Dream666",
      "invoiceAmount": 384.4,
      "invoiceMethod": 1,
      "invoiceClass": 1,
     "invoiceState": 8,
      "applyOpera": "******",
      "addressInfo": {
    "address": "*******",
         "recipients": "Wang**",
         "zipCode": "10****",
         "mobilePhone": "188****8888"
     "applyTime": "2019-12-28T06:20:41Z",
"invoiceMode": "1",
     "email": "***@163.com",
      "requestMode": "0",
      "srcRequestId": null,
     "salesId": "1351",
     "invoiceNo": "CSER191001321",
```

Returned Values

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

11 API to Be Brought Offline

11.1 Product Management

11.1.1 Querying Product Information

11.1.1.1 Querying Cloud Service Types (Old)

Function

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

□ NOTE

This API will be brought offline soon. For details about the API for querying cloud service types, see **Querying Cloud Service Types**.

Constraints

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

URI

GET /v2/bases/service-types

Table 11-1 Header parameter

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

Table 11-2 Request parameters

Paramete r	Manda tory	Type	Maxim um Length of Charact ers	Description
service_ty pe_code	No	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. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. If this parameter is set to "" or null, it can be used as a filter criterion.

Request

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v2/bases/service-types? service_type_code=hws.service.type.workplace HTTP/1.1 Content-Type: application/json X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ X-Language: zh_CN

Response

Response Parameters

Parameter	Туре	Maximu m Length of Charact ers	Description
error_code	String	A maximu m of 20 characte rs	Error code. For details, see Status Codes . 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.
service_typ es	List <ser viceTyp e></ser 	-	Returned cloud service type. For details, see Table 11-3.

Table 11-3 ServiceType

Parameter	Туре	Maxim um Length of Charact ers	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.

Status Codes

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

11.1.1.2 Querying Resource Types (Old)

Function

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

◯ NOTE

This API will be brought offline soon. For details about the API for querying resource types, see **Querying Resource Types**.

Constraints

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

URI

GET /v2/bases/resource-types

Table 11-4 Header parameter

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

Table 11-5 Request parameters

Paramete r	Manda tory	Туре	Maxim um Length of Charact ers	Description
resource_t ype_code	No	String	A maximu m of 64 charact ers	Resource type code. For example, the resource type code of ECS is hws.resource.type.vm. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. If this parameter is set to "" or null, it can be used as a filter criterion.

Request

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v2/bases/resource-types? resource_type_code=hws.resource.type.workplace.basic HTTP/1.1 Content-Type: application/json X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ X-Language: zh_CN

Response

Response Parameters

Parameter	Туре	Maximu m Length of Charact ers	Description
error_code	String	A maximu m of 20 characte rs	Error code. For details, see Status Codes . 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.
resource_t ypes	List <res ourceTy pe></res 	-	Resource type information. For details, see Table 11-6 .

Table 11-6 ResourceType

Parameter	Туре	Maxim um Length of Charact ers	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.
resource_t ype_desc	String	A maximu m of 200 charact ers	Resource type description.

Status Codes

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

11.2 Transaction Management

11.2.1 Yearly/monthly Order Management

11.2.1.1 Querying Orders

Function

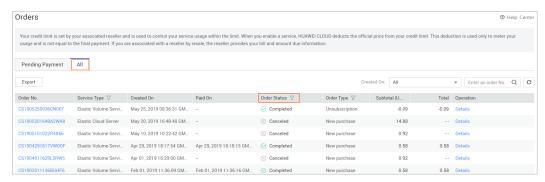
After a customer purchases yearly/monthly resources, it can query the orders in different statuses, such as in the pending approval, processing, canceled, completed, and pending payment statuses.

MOTE

This API will be brought offline soon. For details about the API for querying orders, see **Querying Orders**.

Web UI

Log in to the Billing Center and switch to the **Orders** page. On the displayed page, click the **All** tab to view the orders in different statuses, such as pending approval, processing, canceled, completed, and pending payment.



REST API

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

□ NOTE

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

GET /v1.0/{domain_id}/common/order-mgr/orders/detail The following table describes the parameters.

Table 11-7 URI parameters

Parame ter	Manda tory	Maxim um Length of Charac ters	Description
domain _id	Yes	A maxim um of 64 charact ers	Customer account ID. For details, see How Do I Obtain Customer's customer_id and domain_id Values?

Table 11-8 Request parameters

Parame ter	Manda tory	Туре	Maxi mum Lengt h of Chara cters/ Value Range	Description
order_id	No	String	A maxi mum of 64 charac ters	Order ID. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. If this parameter is set to "" or null, it can be used as a filter criterion.
custome r_id	No	String	A maxi mum of 64 charac ters	Customer account ID. For details, see How Do I Obtain Customer's customer_id and domain_id Values? 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.
create_ti me_begi n	No	String	A maxi mum of 64 charac ters	Start time of order creation. UTC time in "yyyy-MM- dd'T'HH:mm:ss'Z'" format, 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. The range queried cannot exceed one year. 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.

Parame ter	Manda tory	Туре	Maxi mum Lengt h of Chara cters/ Value Range	Description
create_ti me_end	No	String	A maxi mum of 64 charac ters	End time of order creation. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, 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. The range queried cannot exceed one year. 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.
service_t ype	No	String	A maxi mum of 64 charac ters	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 or is left empty, it cannot be used as a filter criterion. If this parameter is set to "" or null, it can be used as a filter criterion.
status	No	String	A maxi mum of 64 charac ters	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 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 "".

Parame ter	Manda tory	Туре	Maxi mum Lengt h of Chara cters/ Value Range	Description
order_ty pe	No	String	A maxi mum of 64 charac ters	Order type. The value can be: 1: New purchase 2: Renewal 3: Change 4: Unsubscription 10: Yearly/monthly to pay-peruse 11: Pay-per-use to yearly/monthly 13: Trial 14: Commercial use 15: Price adjustment 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 "".
page_siz e	Yes	Integer	[1-100	Number of rows on a page.
page_in dex	Yes	Integer	[1- Maxi mum intege r]	Current page number. If the value of this parameter exceeds 1000000 , the default value 1 is used.

Parame ter	Manda tory	Туре	Maxi mum Lengt h of Chara cters/ Value Range	Description
sort	No	String	A maxi mum of 36 charac ters	Sorting order of the orders. 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 in the request parameters or is left empty, it cannot be used as a filter criterion. It cannot be set to "" or null .
paymen t_time_b egin	No	String	A maxi mum of 64 charac ters	Start time of order payment. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, for example, 2019-05-06T08:05:01Z. The range of HH is 0-23, and the range of mm and ss is 0-59. The interval between the order creation time and termination cannot exceed one year. 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.

Parame ter	Manda tory	Туре	Maxi mum Lengt h of Chara cters/ Value Range	Description
paymen t_time_e nd	No	String	A maxi mum of 64 charac ters	End time of order payment. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z" format, for example, 2019-05-06T08:05:01Z. The range of HH is 0-23, and the range of mm and ss is 0-59. The interval between the order creation time and termination cannot exceed one year. 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.

Request

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/common/order-mgr/orders/detail? page_size=5&page_index=1 HTTP/1.1 Content-Type: application/json

X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ

Response

Response Parameters

Parameter	Туре	Description	
error_code	String	Error code. For details, see 4.	
error_msg	String	Error description.	
data	Result	Order list For details, see Table 11-9 .	

Table 11-9 Result

Parameter	Туре	Description	
pageSize	Integer	Number of rows on a page.	
pageIndex	Integer	Current page number.	
totalSize	Integer	Number of records that match the query conditions.	
orderInfos	List <custo merOrder></custo 	Order details. For details, see Table 11-10 .	

Table 11-10 CustomerOrder

Parameter	Туре	Description		
orderId	String	Order ID.		
compositeO rderId	String	Combined order ID This parameter is reserved.		
baseOrderId	String	Parent order ID (order ID before splitting). When a cloud service is renewed or changed or a cloud service is unsubscribed, a new order ID (orderId value) is generated. In this case, baseOrderId indicates the original ID before the renewal, change, or unsubscription. This field has been discarded.		
beld	String	HUAWEI CLOUD business entity ID.		
customerId	String	Customer ID.		
sourceType	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 3: Processing 4: Canceled 5: Completed 6: Pending payment 9: To be confirmed		

Parameter	Туре	Description
orderType	Integer	Order Type: 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
currency	Double	Order amount (original price). In the unsubscription order, the amount is equal to the value of currencyAfterDiscount.
currencyAft erDiscount	Double	Order amount after a discount (excluding the vouchers or cards)
measureld	Integer	Order amount unit. 1: Dollar 2: Dime 3: Cent
measureNa me	String	Amount unit name.
createTime	String	Creation time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, 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.
paymentTi me	String	Payment time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, 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.
lastUpdateT ime	String	Latest status update time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, 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.
needAudit	Boolean	Whether the approval is required.

Parameter	Туре	Description	
currencyTyp e	String	Currency code.	
contractId	String	Contract ID.	
currencyOffi cial	Double	Order amount (list price). In the unsubscription order, the amount is equal to the value of currencyAfterDiscount.	
amountInfo	AmountInf o	Order deduction details. For details, see Table 11-11 .	
serviceType	String	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.	

Table 11-11 AmountInfo

Parameter	Туре	Description	
discountList	List <discou ntItem></discou 	Fee item. For details, see Table 11-12 .	
cashcoupon Amount	Double	Flexi-purchase coupon amount (reserved).	
couponAmo unt	Double	Cash coupon amount.	
cardAmount	Double	Stored-value card amount (reserved).	
commission Amount	Double	Handling fee (only for unsubscription orders).	
consumedA mount	Double	Consumption amount (only for unsubscription orders).	

Table 11-12 DiscountItem

Parameter	Туре	Description
discountTyp	String	Discount type.
e		200: Promotion product discount
		300 : Promotion discount coupon
		301 : Promotion coupon
		302 : 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 adjusting an order price
		610 : Discount amount
		700 : Promotion discount
		800 : Top-up account discount
discountAm ount	Double	Discounted amount.

```
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",
    "data": {
        "pageSize": 10,
        "pageIndex": 1,
        "totalSize": 1,
```

```
"orderInfos": [{
    "orderId": "9Lw9b*****mqK5k",
      "compositeOrderId": "CS2305*****SZEIR",
      "baseOrderId": null,
      "beld": "0"
      "customerId": "L3BnG*****jBdD",
      "sourceType": 1,
      "status": 4,
      "orderType": 1,
      "currency": 30,
      "currencyAfterDiscount": 30,
      "measureId": 1,
      "measureName": null,
      "createTime": "2019-04-01T11:28:20Z",
      "paymentTime": null,
      "lastUpdateTime": "2019-04-02T11:29:42Z",
      "needAudit": false,
      "currencyType": "USD",
"contractId": null,
      "currencyOfficial": 30,
      "amountInfo": {
         "discountList": [{
           "discountType": "901",
           "discountAmount": 100
        }],
"cashcouponAmount": 1,
         "couponAmount": null,
         "cardAmount": null,
         "commissionAmount": 4,
         "consumedAmount": 5
      "serviceType": "hws.service.type.ebs"
  }]
}
```

4. Status Code

◯ 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.
- 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 Statu s Code	Error Code	Description
200	CBC.0 000	Succeeded.
400	CBC.0 100	Incorrect parameter.
400	CBC.0 101	Invalid parameter.
403	CBC.0 151	Access denied.

HTTP Statu s Code	Error Code	Description
403	CBC.0 155	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.0 999	Other errors.

11.2.1.2 Querying Order Details

Function

A customer can invoke this API to query order bills.

■ NOTE

This API will be brought offline soon. For details about the API for querying order details, see **Querying Order Details**.

Web UI

A customer can switch to the **Orders** page in the Billing Center to query order details.

- Step 1 Go to the My Orders page.
- **Step 2** To view a cloud service order, click the **Cloud Services** tab.
- **Step 3** You can filter orders by creation time, order number, or product name.



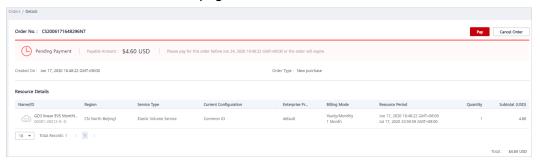
Step 4 Click **Details** for the target order.



□ NOTE

If the order status is **Processing**, indicates that resources are being created and indicates that the order contains a resource that failed to be created.

• If the cloud service order status is **Pending Payment**, you can pay or cancel the order on the order details page.



• If your cloud service order has any resources that fail to be provisioned, you will be automatically unsubscribed from the resources.

◯ NOTE

When an account manager places an order on behalf of the customer in accordance with the contract, the contract information will be displayed on the order details page. The account manager can then click the contract name to go to the contract details page.

----End

REST API

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

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

GET /v1.0/{domain_id}/common/order-mgr/orders/{order_id} The following table describes the parameters.

Table 11-13 URI parameters

Paramet er	Mandat ory	Maximu m Length of Characte rs	Description
domain_i d	Yes	A maximu m of 64 character s	Customer account ID. For details, see How Do I Obtain Customer's customer_id and domain_id Values?
order_id	Yes	A maximu m of 64 character s	Order ID. The system will return the orders if the orders are queried.

Table 11-14 Request parameters

Paramet er	Mandat ory	Value Range	Description
offset	No	[1- Maximu m integer]	Page number. If this parameter is not input, the default value is 1. If the value of this parameter exceeds 1000000, the default value 1 is used.
			If this parameter is not included in the request parameters, the value 1 is used. It cannot be set to "". If this parameter is left empty or is set to null, the value of orderInfo in the response is null.
limit	No	[1-100]	Number of records displayed on each page. If this parameter is not input, the default value is 10 .
			If this parameter is not included in the request parameters, is left empty , or is set to null , the value 10 is used. This parameter cannot be set to "".

2. Request

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/common/order-mgr/orders/CS*****O7 HTTP/1.1

Content-Type: application/json X-Auth-Token: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ*

3. Response

Response Parameters

Parameter	Туре	Description	
error_code	String	Error code.	
		For details, see 4.	
error_msg	String	Error description.	
orderInfo	Customer OrderEntit	Order details. This parameter is available only when offset is set to 1 .	
	У	For details, see Table 11-15 .	
count	Integer	Number of order items	
orderlineIte ms	List <order LineItemE ntity></order 	Order items in an order For details, see Table 11-16 .	

Table 11-15 CustomerOrderEntity

Parameter	Туре	Description	
orderId	String	Order ID	
compositeO rderId	String	Combined order ID This parameter is reserved.	
baseOrderId	String	Parent order ID (order ID before splitting). This parameter is returned only for renewal orders.	
beld	String	HUAWEI CLOUD business entity ID.	
customerId	String	Customer ID.	
sourceType	Integer	Customer order source type. The value can be: 1. Customer 2. Agent 3: Contract 4: Distributor	

Parameter	Туре	Description		
status	Integer	Order status. The value can be: 1: Pending approval 3: Processing 4: Canceled 5: Completed 6: Pending payment 9: To be confirmed		
orderType	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		
currency	Double	Order amount (original price). In the unsubscription order, the amount is equal to the value of currencyAfterDiscount.		
currencyAft erDiscount	Double	Order amount after a discount (excluding the vouchers or cards)		
measureId	Integer	Order amount unit. 1: Dollar 2: Dime 3: Cent		
measureNa me	String	Amount unit name.		
createTime	String	Creation time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, 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.		
paymentTi me	String	Payment time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, 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.		

Parameter	Туре	Description	
lastUpdateT	String	Latest status update time.	
ime		UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, 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.	
needAudit	Boolean	Whether the approval is required.	
currencyOffi	Double	Order amount (list price).	
cial		In the unsubscription order, the amount is equal to the value of currencyAfterDiscount .	
amountInfo	AmountInf	Order deduction details.	
	0	For details, see Table 11-17 .	
currencyTyp e	String	Currency code.	
contractId	String	Contract ID.	
serviceType	String	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.	

Table 11-16 OrderLineItemEntity

Parameter	Туре	Description		
orderLineIte mId	String	Order item ID.		
cloudServic eType	String	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.		
productId	String	Product ID.		
productSpec Desc	String	Product specification description.		

Parameter	Туре	Description		
periodType	Integer	Period type. • 0: Day • 1: Week • 2: Month • 3: Year • 4: Hour • 5: One-off • 6: Pay-per-use (reserved) • 7: By usage report (reserved)		
periodNum	Integer	Number of periods.		
validTime	String	Effective time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, 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.		
expireTime	String	Expiration time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z"" format, 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.		
subscription Num	Integer	Number of subscriptions.		
currency	Double	Order amount (original price). In the unsubscription order, the amount is equal to the value of currencyAfterDiscount.		
currencyAft erDiscount	Double	Order amount after a discount (excluding the vouchers or cards).		
currencyOffi cial	Double	Order amount (list price). In the unsubscription order, the amount is equal to the value of currencyAfterDiscount.		
amountInfo	AmountInf o	Order deduction details. For details, see Table 11-17 .		
currencyTyp e	String	Currency code.		
categoryCo de	String	Product catalog code.		

Table 11-17 AmountInfo

Parameter	Туре	Description		
discountList	List <discou< td=""><td>Fee item.</td></discou<>	Fee item.		
	ntltem>	For details, see Table 11-18 .		
cashcoupon Amount	Double	Flexi-purchase coupon amount (reserved).		
couponAmo unt	Double	Cash coupon amount.		
cardAmount	Double	Stored-value card amount (reserved).		
commission Amount	Double	Handling fee (only for unsubscription orders).		
consumedA mount	Double	Consumption amount (only for unsubscription orders).		

Table 11-18 DiscountItem

Parameter	Туре	Description
discountTyp	String	Discount type.
e		200 : Promotion product discount
		300 : Promotion discount coupon
		301 : Promotion coupon
		302 : 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 adjusting an order price
		610 : Discount amount
		700 : Promotion discount
		800 : Top-up account discount
discountAm ount	Double	Discounted amount.

```
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",
    "orderInfo": {
        "orderId": "CS1*****LZ2",
        "baseOrderId": null,
        "beld": "9689",
```

```
"customerId": "d75****298",
  "sourceType": 1,
  "status": 5,
   "orderType": 1,
   "currency": 3,
  "currencyAfterDiscount": 0,
  "measureId": 1,
  "measureName": null,
   "createTime": "2019-06-20T16:09:52Z",
  "paymentTime": "2019-06-20T16:10:11Z",
  "lastUpdateTime": "2019-06-20T16:11:07Z",
   "needAudit": false,
  "contractId": null,
  "currencyType": "USD",
   "currencyOfficial": 3,
   "amountInfo": {
     "discountList": [{
        "discountType": "301",
        "discountAmount": 3
     }],
"cashcouponAmount": 0,
     "couponAmount": 3,
     "cardAmount": 0,
     "commissionAmount": null,
     "consumedAmount": null
   "serviceType": "hws.service.type.ebs"
"count": 1,
"orderlineItems": [{
   "orderLineItemId": "CS1*****3LZ2-000001",
   "cloudServiceType": "hws.service.type.ebs",
   "productId": "d5d****3d24",
  "productSpecDesc": "Common I/O",
   "categoryCode": "hws.resource.storage1.evs",
   "periodType": 2,
  "periodNum": 1,
  "validTime": "2019-06-20T16:10:30Z",
   "expireTime": "2019-07-21T15:59:59Z",
   "subscriptionNum": 1,
  "currency": 3,
   "currencyAfterDiscount": 0,
   "currencyOfficial": 3,
   "amountInfo": {
     "discountList": [{
        "discountType": "301",
        "discountAmount": 3
     }],
      "cashcouponAmount": 0,
     "couponAmount": 3,
     "cardAmount": 0,
     "commissionAmount": null,
     "consumedAmount": null
   "currencyType": "USD"
}]
```

4. Status Code

- 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.
- 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 Statu s Code	Error Code	Description
200	CBC.0 000	Succeeded.
400	CBC.0 100	Incorrect parameter.
400	CBC.0 101	Invalid parameter.
403	CBC.0 151	Access denied.
403	CBC.0 155	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.0 999	Other errors.

11.2.1.3 Paying Yearly/Monthly Product Orders

Function

□ NOTE

This API will be brought offline soon. For details about the API for paying yearly/monthly product orders, see **Paying Yearly/Monthly Product Orders**.

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.

Ⅲ 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 coupons, commercial discounts, and partner-authorized discounts cannot be used together.
 - 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 only using the AK/SK or token of the customer.

URI

POST /v2/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
coupon_in fos	No	List <cou ponSimpl eInfoOrd erPay></cou 	[0-3]	This parameter is reserved. For details, see Table 11-19 . If this parameter is not included in request parameters, is set to null , or is set to an empty array, no coupons are used in payment. CAUTION
				is set to an empty array, no coupons are used in payment. 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.
discount_i	No List <disc ountsim<="" td=""><td></td><td rowspan="2">[0-1]</td><td>Discount ID list.</td></disc>		[0-1]	Discount ID list.
nfos				For details, see Table 11-20 .
	pleInfo>	1110>	If this parameter is not included in request parameters, is set to null , or is set to an empty array, no discount is used in payment.	

Table 11-19 CouponSimpleInfoOrderPay

Paramet er	Manda tory	Туре	Maxim um Length of Charac ters	Description
id	Yes	String	A maxim um of 64 charact ers	Coupon ID.

Paramet er	Manda tory	Туре	Maxim um Length of Charac ters	Description
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)

Table 11-20 DiscountSimpleInfo

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	[0,2,3,6 09]	 Discount type. 0: promotion discount 2: commercial discount 3: discount granted by a partner 609: discount for adjusting an order price NOTE Once the discount 609 (discount for adjusting an order price) is used during order payment, the discount must be used and the discount type cannot be changed.

Example Request

POST https://bss-intl.myhuaweicloud.com/v2/orders/customer-orders/pay HTTP/1.1 Content-Type: application/json

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 of 10 character s	Error code. For details, see Status Codes .
error_msg	String	A maximu m of 256 character s	Error description.

Parameter	Туре	Maximu m Length of Charact ers	Description
quota_info s	List <quotal nfo></quotal 	-	List of the resources whose quota or capacity is insufficient. For details, see Table 11-21. 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 11-22. This parameter is valid only when error_code is set to CBC.99003155.

Table 11-21 QuotaInfo

Parameter	Туре	Description
region	String	Cloud service region code, for example, apsoutheast-1. Obtain the value from the Region column in Regions and Endpoints.
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_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.

Parameter	Туре	Description
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. For details, see the AZ names of regions listed on the Regions and Endpoints, for example, cn-north-1a.

Table 11-22 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.

Parameter	Туре	Description
auth_statu s	Integer	Verification result of the enterprise project's fund quota.
		10: The fund quota is insufficient or the project is invalid.
		11: The organization budget quota is insufficient.

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

Date: response time

Status Codes

□ 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.
- 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 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.		
400	CBC.99003116	The restriction to selected coupon regulates that the coupon cannot be used with the discount at the same time.		

HTTP Status Code	Error Code	Description
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.99003151	This discount cannot be used together with other discounts.
400	CBC.99003155	Insufficient enterprise project fund quota, or invalid project.
400	CBC.99003156	Coupons applicable to KooGallery products cannot be used together with dedicated coupons.
400	CBC.99003162	The validity period set for the bandwidth add-on package cannot be earlier than the system 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.99005036	Payment via API not allowed for this customer. (Payment by balance and monthly-settled payment are not allowed.)
400	CBC.99008040	Too many attempts.
400	CBC.7281	Renewal, unsubscription, or payment not supported. Your account has been frozen.
500	CBC.0999	Other errors.
400	CBC.99000089	Operation failed. Sub orders of a combine order cannot be processed independently.

11.2.2 Yearly/Monthly Resource Management

11.2.2.1 Querying Customer's Yearly/Monthly Resources

Function

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

Note:

- This API can be invoked by the customer AK/SK or token.
- This API can only be used to query resources successfully provisioned.

URI

GET /v1.0/{domain_id}/common/order-mgr/resources/detail

The following table describes the parameters.

Table 11-23 URI parameters

Parame ter	Mandat ory	Maximu m Length of Characte rs	Description
domain _id	Yes	A maximu m of 64 character s	Customer account ID. For details, see How Do I Obtain Customer's customer_id and domain_id Values?

Table 11-24 Request parameters

Parame ter	Mandat ory	Туре	Maxim um Length of Charac ters/ Value Range	Description
resource _ids	No	String	A maxim um of 4096 charact ers	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 queried at the same time. Use commas (,) to separate multiple IDs. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. If this parameter is set to "" or null, it can be used as a filter criterion. NOTE A resource ID is allocated by a cloud service after the resource is provisioned, such as server_id in 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 or is left empty, it cannot be used as a filter criterion. If this parameter is set to "" or null, it can be used as a filter criterion.

Parame ter	Mandat ory	Туре	Maxim um Length of Charac ters/ Value Range	Description
only_ma in_resou rce	No	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, is left empty, or is set to null , the default value 0 is used. This parameter cannot be set to "".
				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.
status_li	No	String	-	Resource status.
st		-		Queries resources in a specified status. If there are multiple statuses, separate them using commas (,).
				• 2: Provisioned
				• 4 : Frozen
				• 5: Expired
				If this parameter is not included in the request parameters or is left empty, resources in all statuses will be returned. This parameter cannot be set to "" or null .

Parame ter	Mandat ory	Туре	Maxim um Length of Charac ters/ Value Range	Description
page_no	No	Integer	An integer greater than or equal to 1	Page number. The default value is 1. If this parameter is not included in the request parameters, is left empty, or is set to null, the default value 1 is used. This parameter cannot be set to "".
page_siz e	No	Integer	[1-500]	Number of records on each page. The default value is 10. The maximum value is 500. If this parameter is not included in the request parameters, is left empty, or is set to null, the default value 10 is used. This parameter cannot be set to "".

Request

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/common/order-mgr/resources/detail? resource_ids=*b38*****62e,249*****c07*&only_main_resource=*1*&page_no=*1*&page_size=*100* HTTP/1.1 Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ

Response

Parameter	Туре	Description
error_code	String	Error code.
		For details, see Status Code .
error_msg	String	Error description.

Parameter	Туре	Description
data	List <resourceins tance=""></resourceins>	Resource list. For details, see Table 11-25 .
total_count	Integer	Total number of records. The default value is 0 .

Table 11-25 ResourceInstance

Parameter	Туре	Description
id	String	Internal ID of the resource to be provisioned. The ID generated after the resource is provisioned is resourceID .
resource_id	String	Resource ID.
resource_nam e	String	Resource instance name.
region_code	String	Region code.
cloud_service _type_code	String	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_type _code	String	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.
resource_spec _code	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).
project_code	String	Resource project ID.
product_id	String	Product ID.
main_resourc e_id	String	Primary resource ID.
is_main_resou rce	Integer	Primary resource or not. • 0: No • 1: Yes

Parameter	Туре	Description
status	Integer	Resource status. • 2: Provisioned • 3: Closed (not visible to customers) • 4: Frozen • 5: Expired
valid_time	String	Effective time of a resource. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, for example, 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, for example, 2019-05-06T08:05:01Z.
next_operatio n_policy	Integer	 Next billing policy. 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.

```
"main_resource_id": "249****c07",
   "is_main_resource": 1,
   "valid_time": "2018-04-26T18:03:03Z",
   "expire_time": "2018-06-27T15:59:59Z",
   "next_operation_policy": 3
   "id": "01154-21800073-0",
   "status": 2,
   "resource_id": "b3****62e",
   "resource_name": "ecs-9f88-0001",
   "region_code": "cn-north-1"
   "cloud_service_type_code": "hws.service.type.ec2",
   "resource_type_code": "hws.resource.type.vm",
   "resource_spec_code": "s3.medium.2.linux", "project_code": "3f*****400",
   "product_id": "00301-62057-0--0",
   "main_resource_id": "b38****62e",
   "is_main_resource": 1,
   "valid time": "2018-04-26T18:02:33Z",
   "expire_time": "2018-06-27T15:59:59Z",
   "next_operation_policy": 3
],
"error_code": "CBC.0000",
"error_msg": "success",
"total count": 2
```

Status Code

∩ 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.
- 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 Statu s Code	Error Code	Description
200	CBC.0000	Succeeded.
400	CBC.0100	Incorrect parameter.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

11.2.2.2 Renewing Subscription to Yearly/Monthly Resources

Function

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

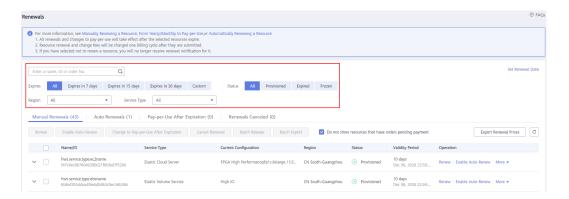
□ NOTE

This API will be brought offline. For details about the new API for renewing subscription to yearly/monthly resources, see **Renewing Subscription to Yearly/Monthly Resources**.

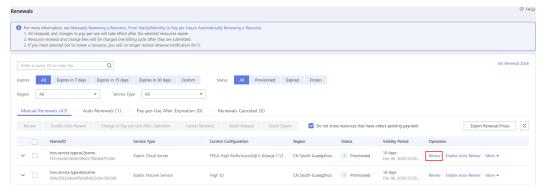
Web UI

Customers can manually renew subscription to yearly/monthly resources when the subscription is about to expire in the Billing Center.

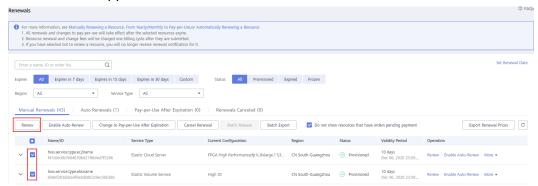
- **Step 1** Go to the **Renewals** page.
- **Step 2** Set the search criteria.



- Customers who have enabled enterprise project management can set the search criteria to filter an enterprise project and query its resources that are to be renewed.
- You can click **Set Renewal Date** to set the expiration date of resources. For details, see **Setting a Renewal Date**.
- Under the Manual Renewals, Auto Renewals, Pay-per-Use After Expiration, and Renewals Canceled tabs, you can query all resources to be renewed.
- You can manually renew resources under the Manual Renewals, Auto Renewals, Pay-per-Use After Expiration, and Renewals Canceled tabs.
- Step 3 All resources that need to be manually renewed can be moved to the Manual Renewals tab. For details, see Restoring to Manual Renewal.
- **Step 4** Renew resources separately or in batches.
 - Separate renewal: Click **Renew** in the **Operation** column for the desired resource.

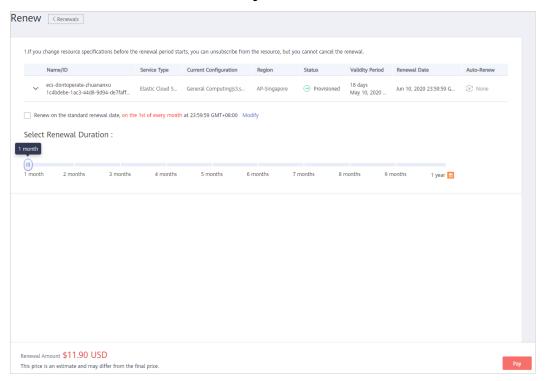


• Batch renewal: Select the check boxes for the desired resources, and click **Renew** in the upper left corner.



■ NOTE

- On the Renewals page, resources that have orders pending payment are hidden by default. You can unselect Do not show resources that have orders pending payment to show them.
- When you renew a resource that has an order pending payment, the following message
 will be displayed: "The resource has an order pending payment. You can renew it only
 after you pay or cancel the order." You can click the order number in the dialog box to
 go to the order details page. After you pay or cancel the order, the resource becomes
 renewable.
- **Step 5** Select a renewal duration and click **Pay**.



Step 6 Select discounts and a payment option, and click **Pay**.

----End

REST API

A customer can renew its yearly/monthly resources on the customer platform.

- This API can be invoked using the customer AK/SK or token only.
- After you invoke this API, if a primary resource ID has an attached resource ID, the system will renew the subscription to both the primary resource and attached resource.
 - 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.
- This API supports automatic payment. Discounts can be used during automatic
 payment, but coupons cannot be used. For details about how to use discounts or
 coupons during payment, see Support for Discounts or Coupons.

1. URI

POST /v1.0/{domain_id}/common/order-mgr/resources/renew The following table describes the parameters.

Table 11-26 URI parameter description

Parame	Mand	Value	Description
ter	atory	Range	
domain_ id	Yes	A maxim um 64 charac ters	Customer account ID. For details, see How Do I Obtain Customer's customer_id and domain_id Values?

2. Request

Request Parameters

Parame ter	Mand atory	Туре	Value Range	Description
resource _ids	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.
period_t ype	Yes	Integer	[2 3]	Period type. The value can be: • 2: Month • 3: Year

Parame ter	Mand atory	Туре	Value Range	Description
period_n um	Yes	Integer	[1-11]	Number of periods. • Month: 1 to 11 • Year: 1 to 3
expire_ mode	Yes	Integer	[0-3]	 Expiration policy (This field has been discarded. Do not use it.) 0: Enter the grace period. 1: Change billing mode to payper-use. 2: Automatic unsubscription 3: Automatic renewal
isAutoP ay	No	Integer	[0-1]	Whether enable automatic payment. • 0: No • 1: Yes If this parameter is left empty, default value 0 is used (automatic payment disabled). Automatic payment supports only payment from the balance. If this parameter is not included in the request parameters, is set to "", or is set to null, the value 0 is used. This parameter cannot be left empty.

Example Request

```
POST https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/common/order-mgr/resources/renew
HTTP/1.1
```

Content-Type: application/json X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ

```
{
    "resource_ids": ["53fe*****068b"],
 "period_type":2,
"period_num":2,
  "expire_mode":0
```

3. Response

Parameter	Туре	Description
error_code	String	Status code.
		For details, see 4.

Parameter	Туре	Description
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 resources that cannot be renewed due to expiration.
		This parameter has a value only when the error code is 3016.

```
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",
    "order_ids": ["xxxxxxxxxx"],
    "expiredResoucelds":[]
}
```

4. Returned Values

□ 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.
- 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 Statu s Code	Error Code	Description	
200	CBC.0000	Success.	
400	CBC.0100	Invalid input parameter.	
500	CBC.0999	Other errors.	
403	CBC.0151	Access denied.	
200	CBC.7281	You cannot renew or cancel subscription because your account has been frozen.	
200	CBC.3016	Expired resources exist.	
200	CBC.3144	Resources have being unsubscribed from or changed.	

HTTP Statu s Code	Error Code	Description
200	CBC.9900363 1	The unsubscribed, deleted, or released resource cannot be renewed.

11.2.2.3 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.

□ NOTE

This API will be brought offline. For details about the new API for unsubscribing from yearly/monthly resources, see **Unsubscribing from Yearly/Monthly Resources**.

Web UI

If a customer has subscribed to a yearly/monthly resource, the customer can use this API to unsubscribe from the resource in the Billing Center.

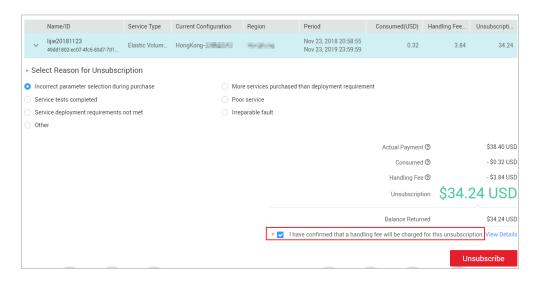
- **Step 1** Go to the **Unsubscriptions** page.
- Step 2 Click the Succeeded Resources tab.
- **Step 3** Unsubscribe from resources separately or in batches.
 - Unsubscribe from a single resource: Click Unsubscribe for a resource from which you want to unsubscribe.



 Batch unsubscribe from resources: Select the target resources from the resource list and click **Unsubscribe** in the upper left corner of the resource list.



Step 4 View the unsubscription information, select **I have confirmed that a handling fee** will be charged for this unsubscription, and click **Unsubscribe**.



----End

REST API

A customer can unsubscribe from its yearly/monthly resources on the customer platform.

A yearly/monthly resource can be unsubscribed from only after it has been successfully paid and provisioned.

□ NOTE

- This API can be invoked only using the AK/SK or token of the customer.
- After you invoke this API, if a primary resource ID has an attached resource ID, the system will unsubscribe from both the primary resource and attached resource.
 - 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.

1. URI

POST /v1.0/{domain_id}/common/order-mgr/resources/delete The following table describes the parameters.

Table 11-27 URI parameter description

Paramete	Mandat	Value	Description
r	ory	Range	
domain_id	Yes	A maximum 64 character s	Customer account ID. For details, see How Do I Obtain Customer's customer_id and domain_id Values?

2. Request Request Parameters

Paramete r	Mandat ory	Туре	Value Range	Description
resourceld	Yes	List <strin< td=""><td>[1-10]</td><td>Resource IDs.</td></strin<>	[1-10]	Resource IDs.
S		g>		A maximum of 10 resource IDs can be entered at a time. Only the primary resource IDs can be entered. Determine whether a resource is a primary
				resource is a primary resource based on is_main_resource in the response of the API described in Querying Customer's Yearly/Monthly Resources.
unSubTyp e	Yes	Integer	[1-2]	Unsubscription type. The value can be:
				1: Unsubscribe from the resource and its renewal periods.
				2: Unsubscribe from only the resource renewal periods.
unsubscri beReason	No	Integer	[1-5]	Unsubscription cause. The value can be:
Туре				1: The product is of poor usability.
				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
				If this parameter is not included in the request parameters, is set to "", or is set to null, no value is returned.

Paramete r	Mandat ory	Туре	Value Range	Description
unsubscri beReason	No	String	A maxim um of 512 charact ers	Unsubscription reason, which is generally specified by the customer. If this parameter is not included in the request parameters, is set to "", or is set to null, no value is returned.

Example Request

```
POST https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/common/order-mgr/resources/delete HTTP/1.1

Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ

{
    "resourcelds": ["53fa7828774df68b","72a256456xdf45g"],
    "unSubType":2,
    "unsubscribeReasonType":2,
    "unsubscribeReason":"xxxxxxxx"
}
```

3. Response

Response Parameters

Parameter	Туре	Description
error_code	String	Status code. For details, see 4.
error_msg	String	Error description.
orderlds	List <string></string>	Unsubscription order IDs.

Example Response

```
HTTP/1.1 200 OK

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

Content-Length: length

Date: response time

{
    "error_code": "CBC.0000",
    "error_msg": "unsubscribe success",
    "orderIds": ["xxxxxxxxxxx"]
}
```

4. Returned Values

◯ 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.
- 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 Statu s Code	Error Code	Description
200	CBC.0000	Success.
400	CBC.0100	Invalid input parameter.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.
200	CBC.3001003 5	Resources cannot be found.
200	CBC.7281	You cannot renew or cancel subscription because your account has been frozen.
400	CBC.9900301	Resource ID not found.
400	CBC.9900310	This operation is not allowed because some resources are included in your orders to be paid.
400	CBC.9900606 6	An error occurred during fee inquiry.
400	CBC.9900365	Unsubscription not allowed for this cloud service in the Marketplace.
400	CBC.3000005 2	Operation not allowed. Your account has been frozen.

11.2.3 Managing Resource Packages

11.2.3.1 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.

□ NOTE

This API will be taken offline. For details about the API for querying resource packages, see **Querying 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 /v2/payments/free-resources/query

Table 11-28 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 If this parameter is not included in the request parameters or is left empty, the value zh_CN is used. This parameter cannot be set to "" or null.

Request

Request Parameters

Paramete r	Manda tory	Туре	Value Range	Description
region_co de	No	String	A maximu m of 64 characte	Cloud service region code, for example, ap-southeast-1 . Obtain the value from the Region column in Regions and Endpoints .
			rs	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
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.
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.

Paramete r	Manda tory	Туре	Value Range	Description
offset	No	Integer	[0, 9999]	Page number. Enter N if you want to query the N page, for example, enter 1 to query the first page.
				If you enter 0 , the first page is queried by default.
				If this parameter is not included in the request parameters, is set to "", or is set to null, the first page is queried by default. This parameter cannot be left empty.
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 parameters, is set to "", or is set to null, the value 10 is used. This parameter cannot be left empty.

Example Request

```
POST https://bss-intl.myhuaweicloud.com/v2/payments/free-resources/query HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...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
}
```

Response

Parameter	Туре	Value Range	Description
error_code	String	20	Error code.
			For details, see Status Codes . This parameter is returned only when the query failed.
error_msg	String	1000	Error description. This parameter is returned only when the query failed.

Parameter	Туре	Value Range	Description
free_resourc e_packages	List <freer esourcePac kage></freer 	-	Resource package list. For details, see Table 11-29.
total_count	Integer	-	Total number of records.

Table 11-29 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. To obtain a specific service type, call the API in Querying Cloud Service Types.
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, for example, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints.

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-peruse 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 11-30 .

Table 11-30 Free resources

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 1024 charact ers	Usage type name.
amount	BigDecima l	A maximu m of 64 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	BigDecima l	A maximu m of 64 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
```

}] }

Status Codes

Ⅲ 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	Parameter error.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

11.2.3.2 Querying the Package Usage

Function

A customer can query the package usage on the self-built platform.

□ NOTE

This API will be taken offline. For details about the API for querying the usage in a package, see **Querying Resource Packages** and **Querying the Package Usage**.

Constraints

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

URI

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

Table 11-31 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 If this parameter is not included in the request parameters or is left empty, the value en_US is used. This parameter cannot be set to "" or null.

Request

Request Parameters

N/A

Example Request

POST https://bss-intl.myhuaweicloud.com/v2/payments/free-resources/usages/query HTTP/1.1 Content-Type: application/json

X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ

Response

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 the query failed.
error_msg	String	A maximum of 1000 characters	Error description. This parameter is returned only when the query failed.
package_usa ge_infos	list <packa geUsageIn fo></packa 	-	Package usage. For details, see Table 11-32.

Table 11-32 Package usage information

Parameter	Туре	Value Range	Description
order_instan ce_id	String	A maximum of 255 characters	Identifier of a subscribed resource package.
resource_typ e_name	String	A maximum of 255 characters	Resource type.
quota_reuse _mode	Integer		Use model. The options are as follows: • 1: Resettable Indicates that the usage of the purchased pay-per-use resource package can be restored based on 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 usage of the purchased pay-per-use package will not be restored. 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.
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	Value Range	Description
quota_reuse _cycle_type	Integer	-	Reset period type. This field is valid only when quota_reuse_mode is set to 1 (Resettable).
			If quota_reuse_mode is set to resetable and the value of quota_reuse_cycle_type is null, the quota is reset by calendar period by default.
			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), and quota_reuse_cycle_type to 2, and you purchase this resource package on the 15th day of the month, then the resource package will be reset on the 15th day of each month.
start_time	String	A maximum of 64 characters	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	A maximum of 64 characters	 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.
balance	Number	-	Remaining resources in a package.

Parameter	Туре	Value Range	Description
total	Number	-	Total number of resources in a package.
measuremen t_name	String	A maximum of 255 characters	Measurement unit name of a package resource.
region_code	String	A maximum of 255 characters	Cloud service region code, for example, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints.

Returned Values

■ 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
500	CBC.0999	Other errors.

11.3 Bill Management

11.3.1 Viewing Resource Usage Details (Old)

Function

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

Note:

- This API can be invoked only using the AK/SK or token of the customer.
- - This API will be brought offline. For details about the API for querying resource usage details, see **Viewing Resource Usage Details**.
 - You can query data from the past three years.

URI

GET /v1.0/{domain_id}/customer/account-mgr/bill/res-records

The following table describes the parameters.

Table 11-33 URI parameters

Parameter	Manda tory	Maximu m Length of Charact ers	Description
domain_id	Yes	A maximu m of 64 characte rs	Domain ID. For details, see How Do I Obtain Customer's customer_id and domain_id Values?

Table 11-34 Request parameters

Parameter	Manda tory	Туре	Maximu m Length of Characte rs/Value Range	Description
cycle	Yes	String	A maximu m of 8 character s	Billing cycle. The value is in "YYYY-MM" format. Example: 2020-01
cloudServiceT ypeCode	No	String	A maximu m of 256 character s	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 or is left empty, it cannot 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 "".
resourceType Code	No	String	A maximu m of 256 character s	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 it is set to null, it can be used as a filter criterion. This parameter cannot be set to "".

Parameter	Manda tory	Туре	Maximu m Length of Characte rs/Value Range	Description
regionCode	No	String	A maximu m of 64 character s	Cloud service region code, for example, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints. If this parameter is not included in the request parameters or is left empty, it cannot 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 "".
resinstanceid	No	String	A maximu m of 256 character s	Resource instance ID.
payMethod	Yes	String	A maximu m of 4 character s	Payment method. The options are: • 0: Yearly/monthly • 1: Pay-per-use • 10: Reserved instance
enterprisePro jectId	No	String	A maximu m of 64 character s	 O: ID of a default project - 1: The service does not support enterprise project management. If this parameter is not included in the request parameters or is left empty, it cannot 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 "".
offset	Yes	Integer	[1- Maximu m integer]	Page number.
limit	Yes	Integer	[1-1000]	Page limit.

Request

Request Parameters

None

Example Request

GET https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/customer/account-mgr/bill/res-records?cycle=2019-06&payMethod=0&offset=1&limit=10 HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ

Response

Parameter	Manda tory	Туре	Maximu m Length of Character s	Description
error_code	No	String	A maximum of 16 characters	Error code. For details, see Status Code. This parameter is returned only when a failure occurs.
error_msg	No	String	A maximum of 1024 characters	Error description. This parameter is returned only when a failure occurs.
monthlyRecor ds	No	List <mon thlyRecor d></mon 	N/A	Resource usage record. For details, see Table 11-35 .
totalCount	No	Int	N/A	Number of result sets. This parameter is returned only when the query is successful.
currency	No	String	A maximum of 3 characters	Currency. USD

Table 11-35 MonthlyRecord

Parameter	Mand atory	Туре	Maximu m Length of Character s/Value Range	Description
cloudServiceTy peCode	No	String	A maximum of 256 characters	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.
regionCode	No	String	A maximum of 64 characters	Cloud service region code, for example, apsoutheast-1. Obtain the value from the Region column in Regions and Endpoints.
resourceTypeC ode	No	String	A maximum of 256 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.
resInstanceId	No	String	A maximum of 256 characters	Resource instance ID.
resourceName	No	String	-	Resource name. When creating a resource, a customer can enter the resource name. Some resource names can also be changed during resource management.
resourceTag	No	String	-	Resource tag. Customers can set tags when managing resources.

Parameter	Mand atory	Туре	Maximu m Length of Character s/Value Range	Description
consumeAmo unt	No	Number	-	Amount of expenditures of a customer on cloud services, including the cash coupons. The value of this parameter is accurate to twotwo decimal places.
cycle	No	String	-	Expenditure month.
measureld	No	Integer	[1-3]	Unit. 1: Yuan/Dollar 2: Jiao/Dime 3: Fen/Cent
enterpriseProj ectId	No	String	-	 Enterprise project ID. 0: ID of a default project null: The service does not support enterprise project management.
payMethod	No	String	[0-1]	Billing mode. 0: Yearly/monthly 1: Pay-per-use 10: Reserved instance
officialAmoun t	No	Number	-	Standard price.

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

{
    "monthlyRecords": [{
        "cloudServiceTypeCode": "hws.service.type.marketplace",
        "regionCode": "cn-north-1",
        "resourceTypeCode": "hws.resource.type.marketplace",
        "reslnstanceld": null,
        "resourceName": null,
        "resourceTag": null,
        "consumeAmount": 0,
        "cycle": "2019-06",
        "measureld": 3,
        "enterpriseProjectId": null,
        "payMethod": "0",
```

```
"officialAmount": 10
},
  "cloudServiceTypeCode": "hws.service.type.marketplace", "regionCode": "cn-north-1",
  "resourceTypeCode": "hws.resource.type.marketplace",
  "resInstanceId": "00****aae",
   "resourceName": null,
   "resourceTag": null,
  "consumeAmount": 600,
   "cycle": "2019-06",
   "measureId": 3,
  "enterpriseProjectId": null,
  "payMethod": "0",
           "officialAmount": 10
},
{
  "cloudServiceTypeCode": "hws.service.type.ebs",
  "regionCode": "cn-north-1",
  "resourceTypeCode": "hws.resource.type.volume",
  "resInstanceld": "005****1b8c",
   "resourceName": null,
  "resourceTag": null,
  "consumeAmount": 10000,
   "cycle": "2019-06",
  "measureId": 3,
  "enterpriseProjectId": "0",
  "payMethod": "0",
           "officialAmount": 10
},
  "cloudServiceTypeCode": "hws.service.type.ebs",
  "regionCode": "cn-north-1",
  "resourceTypeCode": "hws.resource.type.volume",
  "resInstanceId": "06c****88a",
   "resourceName": null,
  "resourceTag": null,
  "consumeAmount": 10000,
   "cycle": "2019-06",
   "measureld": 3,
  "enterpriseProjectId": "0",
  "payMethod": "0",
           "officialAmount": 10
},
  "cloudServiceTypeCode": "hws.service.type.ebs",
  "regionCode": "cn-north-1",
  "resourceTypeCode": "hws.resource.type.volume",
  "resInstanceId": "08****23",
   "resourceName": null,
  "resourceTag": null,
  "consumeAmount": 9500,
   "cycle": "2019-06",
  "measureId": 3,
  "enterpriseProjectId": "0",
  "payMethod": "0",
           "officialAmount": 10
},
{
  "cloudServiceTypeCode": "hws.service.type.marketplace",
   "regionCode": "cn-north-7",
  "resourceTypeCode": "hws.resource.type.marketplace",
  "resInstanceId": "0fa****21e",
"resourceName": null,
  "resourceTag": null,
  "consumeAmount": 400,
   "cycle": "2019-06",
  "measureId": 3,
  "enterpriseProjectId": null,
```

```
"payMethod": "0",
               "officialAmount": 10
   },
   {
      "cloudServiceTypeCode": "hws.service.type.ebs",
      "regionCode": "cn-north-1",
      "resourceTypeCode": "hws.resource.type.volume",
      "resInstanceId": "0ff*****04d",
"resourceName": null,
      "resourceTag": null,
      "consumeAmount": 10000,
"cycle": "2019-06",
      "measureId": 3,
      "enterpriseProjectId": "0",
      "payMethod": "0",
               "officialAmount": 10
   },
{
      "cloudServiceTypeCode": "hws.service.type.ebs",
      "regionCode": "cn-north-1",
      "resourceTypeCode": "hws.resource.type.volume",
      "resInstanceId": "1b92*****8c2", "resourceName": null,
      "resourceTag": null,
      "consumeAmount": 10000,
      "cycle": "2019-06",
      "measureId": 3,
      "enterpriseProjectId": "0",
      "payMethod": "0",
               "officialAmount": 10
   },
   {
      "cloudServiceTypeCode": "hws.service.type.marketplace",
      "regionCode": "cn-north-1",
      "resourceTypeCode": "hws.resource.type.marketplace",
"resInstanceId": "1e4*****6a1",
"resourceName": null,
      "resourceTag": null,
      "consumeAmount": 600,
      "cycle": "2019-06",
      "measureId": 3,
      "enterpriseProjectId": null,
      "payMethod": "0",
               "officialAmount": 10
   },
{
      "cloudServiceTypeCode": "hws.service.type.ebs",
      "regionCode": "cn-north-1",
      "resourceTypeCode": "hws.resource.type.volume", "resInstanceId": "295*****448a1",
      "resourceName": null,
      "resourceTag": null,
      "consumeAmount": 10000,
      "cycle": "2019-06",
      "measureId": 3,
      "enterpriseProjectId": "0",
"payMethod": "0",
               "officialAmount": 10
   }
],
"totalCount": 33,
"currency": "USD"
```

Status Code

Ⅲ 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	Unknown error.

11.3.2 Viewing Resource Expenditures (Old)

Function

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

Note:

- This API can be invoked only using the AK/SK or token of the customer.
- This API can be used to query resource expenditure records generated in the same month
- Customers can use this API to query resource expenditures, but enterprise members cannot.

☐ NOTE

- This API will be brought offline. For details about the API for querying resource expenditures, see Viewing Resource Expenditures.
- You can query data from the past three years.

URI

GET /v1.0/{domain id}/customer/account-mgr/bill/res-fee-records

The following table describes the parameters.

Table 11-36 URI parameters

Parameter	Manda tory	Maxim um Length of Charact ers	Description
domain_id	Yes	A maximu m of 64 characte rs	Customer account ID. For details, see How Do I Obtain Customer's customer_id and domain_id Values?

Table 11-37 Request parameters

Parameter	Manda tory	Туре	Maximu m Length of Characte rs	Description
startTime	Yes	String	A maximu m of 10 character s	Start time. The format is yyyy- MM-dd. NOTE The start time and end time must be in the same month.
endTime	Yes	String	A maximu m of 10 character s	End time. The format is yyyy- mm-dd. NOTE The start time and end time must be in the same month.
cloudServiceT ypeCode	No	String	A maximu m of 256 character s	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 or is left empty, it cannot 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 "".

Parameter	Manda tory	Туре	Maximu m Length of Characte rs	Description
regionCode	No	String	A maximu m of 64 character s	Cloud service region code, for example, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints. If this parameter is not included in the request parameters or is left empty, it cannot 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 "".
orderId	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. If it is set to null, it can be used as a filter criterion. This parameter cannot be set to "".
payMethod	Yes	String	A maximu m of 4 character	Payment method. The options are: 0: Yearly/monthly 1: Pay-per-use
offset	No	Integer	[1- Maximu m integer]	Page number. If this parameter is not included in the request parameters, the value 1 is used. It cannot be set to "" or null, and cannot be left empty.
limit	No	Integer	[1-100]	Number of records on each page. If this parameter is not included in the request parameters, the value 10 is used. It cannot be set to "" or null, and cannot be left empty.

Parameter	Manda tory	Туре	Maximu m Length of Characte rs	Description
resourceId	No	String	A maximu m of 256 character s	Resource ID, If this parameter is not included in the request parameters or is left empty, it cannot 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 "".
enterprisePro jectId	No	String	A maximu m of 64 character s	 O: ID of a default project - 1: The service does not support enterprise project management. If this parameter is not included in the request, it cannot 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 "".

Request

Request Parameters

None

Example Request

 $\label{lem:general-condition} GET \ https://bss-intl.myhuaweicloud.com/v1.0/{\it domain_id}\ / customer/account-mgr/bill/res-fee-records? startTime=2019-08-01&endTime=2019-08-31&payMethod=0&cloudServiceTypeCode=hws.service.type.ebs®ionCode=cn-$

north-1&orderId=orderId&offset=1&limit=10&resourceId=hws.service.type.ebs&enterpriseProjectId=pjzV4N9U q1LWMUgh3fYAhJqUbtd6Ad8yALoRJeDoYGl0jWdZoS8UHbcGBqEin1Ia HTTP/1.1 Content-Type: application/json

X-Auth-Token: MIIPAgYJKoZlhvcNAQcCo...ggg1BBIINPXsidG9rZ

Response

Response Parameters

Parameter	Туре	Maximum Length of Characters	Description
error_code	String	A maximum of 16 characters	Error code. For details, see Status Code . This parameter is returned only when a failure occurs.
error_msg	String	A maximum of 1024 characters	Error description. This parameter is returned only when a failure occurs.
feeRecords	List <resf eeRecord ></resf 	-	Resource usage record. For details, see Table 11-38 .
totalCount	Integer	-	Number of result sets. This parameter is returned only when the query is successful.
currency	String	A maximum of 3 characters	Currency. USD

Table 11-38 ResFeeRecord

Parameter	Туре	Maximum Length of Characters	Description
createTime	String	A maximum of 32 characters	Time when a fee record is generated.
effectiveTime	String	A maximum of 32 characters	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.
expireTime	String	A maximum of 32 characters	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.
feeld	String	A maximum of 64 characters	Fee SN.

Parameter	Туре	Maximum Length of Characters	Description
productId	String	A maximum of 64 characters	Product ID.
productName	String	A maximum of 256 characters	Product name.
orderId	String	A maximum of 64 characters	Order ID. This field is available only for usage records of yearly/monthly resources. This field is left empty for pay-per-use resources.
compositeOrder Id	String	64	Combined order ID This parameter is reserved.
amount	Number	-	Consumption amount, including the amount of cash coupons. The value is accurate to two decimal places.
measureId	Integer	-	Unit. 1: Yuan/Dollar 2: Jiao/Dime 3: Fen/Cent
usageAmount	Number	-	Usage.
usageMeasurel d	Integer	-	Usage unit. You can call the API in Querying Measurement Units to obtain the value.
freeResourceA mount	Number	-	Package usage.
freeResourceMe asureId	Integer	-	Unit of the package usage. You can call the API in Querying Measurement Units to obtain the value.
cloudServiceTyp eCode	String	A maximum of 64 characters	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.

Parameter	Туре	Maximum Length of Characters	Description
regionCode	String	A maximum of 64 characters	Cloud service region code, for example, ap-southeast-1 . Obtain the value from the Region column in Regions and Endpoints .
resourceTypeCo de	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.
payMethod	String	A maximum of 32 characters	Payment method. The options are: 0: Yearly/monthly 1: Pay-per-use
projectID	String	A maximum of 64 characters	Project ID.
projectName	String	A maximum of 256 characters	Project name.
resourceTag	String	A maximum of 1024 characters	Resource tag.
resourceName	String	A maximum of 256 characters	Resource name.
resourceld	String	A maximum of 128 characters	Resource ID.

Parameter	Туре	Maximum Length of Characters	Description
feeSourceOperation	Integer		Order Type 1: Subscription 2: Renewal 3: Change 4: Unsubscription 5: Pay-per-use 6: Discount 7. Special offer 8: Free 9: Huawei write-offs 17: Expenditure - difference amount (min. guaranteed-actual) 19: Change - specifications upgrade 20: Refund - change (entire server) 21: Refund - change (specification downgrade)
enterpriseProjec tld	String	A maximum of 128 characters	 • 0: ID of a default project • null: The service does not support enterprise project management.
periodType	String	-	Period type. The value can be: 19: Year 20: Month 24: Day 25: Hour 5: Minute 6: Second
spot	String	A maximum of 64 characters	Spot instance ID. 2 indicates that the resource is a spot instance.
rlAmount	Number	-	Reserved instance usage.
rlMeasureld	Integer	-	Unit (reserved instance usage).
officialAmount	Number	-	Standard price.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
  "totalCount": 1,
  "currency": "USD",
  "feeRecords": [{
     "createTime": null,
     "effectiveTime": null,
     "expireTime": null,
     "feeld": null,
     "productId": null,
     "productName": null,
     "orderId": "orderId",
     "compositeOrderId": "CS2305*****SZEIR",
     "amount": null,
     "measureId": 0,
     "usageAmount": null,
     "usageMeasureId": 0,
     "freeResourceAmount": null,
     "freeResourceMeasureId": 0,
     "cloudServiceTypeCode": "hws.service.type.ebs",
     "regionCode": "cn-north-1",
"resourceTypeCode": null,
     "payMethod": "0",
     "projectID": "04f480425980d32a2f04c018d3326097",
     "projectName": null,
     "resourcetag": null,
     "resourceName": null,
     "resourceId": null,
     "feeSourceOperation": 0,
     "periodType": null,
     "enterpriseProjectId":
"pjzV4N9Uq1LWMUgh3fYAhJqUbtd6Ad8yALoRJeDoYGl0jWdZoS8UHbcGBqEin1Ia",
     "spot": null,
     "rlAmount": null,
     "rlMeasureId": 0,
           "officialAmount": 10
  }]
```

Status Code

□ 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.
- 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 Status Code	Error Code	Description
400	CBC.0100	Incorrect parameter.
403	CBC.0151	Access denied.

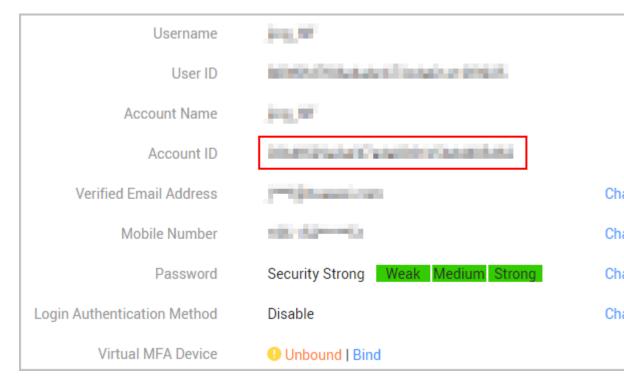
HTTP Status Code	Error Code	Description
500	CBC.0999	Unknown error.

12 Appendix

12.1 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-intl.huaweicloud.com/iam/#/myCredential.



12.2 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 Auto-Renewal Rules.

12.3 Status Code

Table 12-1 lists the HTTP response status code.

Table 12-1 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.

12.4 Error Codes

Function description

When a customer invokes an operation API provided by HUAWEI CLOUD, the response body contains the error code and error code description.

NOTICE

- 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.
- 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.

Error Code Structure Format

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

Error Codes

Table 12-2 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	Resources are being unsubscribed from or changed.	Resources are being unsubscribed from or changed.
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.
400	CBC.500000 30	Setting budgets not supported. This reseller's budget quota is insufficient.	Setting budgets not supported. This reseller's budget quota is insufficient.
400	CBC.500000 33	Budget setting permissions have been revoked. This reseller cannot set budgets.	Budget setting permissions have been revoked. This reseller cannot set budgets.
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.

Status Code	Error Code	Error Message	Description
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.
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.
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 52	The resource or account has been already frozen.	Operation not allowed. Your account 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.300500 06	Automatic order payment failed.	Automatic order payment failed.
400	CBC.300500 12	Duplicate resource ID.	There are duplicate resource IDs.
400	CBC.5003	Insufficient balance.	Insufficient balance.

Status Code	Error Code	Error Message	Description
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.500101 20	Customer development not supported. There are no credits granted for the partner.	Customer development not supported. There are no credits granted for the partner.
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.

Status Code	Error Code	Error Message	Description
400	CBC.990000 28	The email address already exists.	Invalid email address. Email already in-use.
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 resubmit 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	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	Resources are being unsubscribed from or changed.	Resources are being unsubscribed from or changed.
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 grace or retention period cannot be converted into payper-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-perusage 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 payper-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.	The unsubscribed, deleted, or released resource 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 addon bandwidthpackag e.	If there is a bandwidth add-on package, you cannot unsubscribe from the renewal period.
400	CBC.990036 56	Unsubscription not supported for resources frozen due to security reasons.	Unsubscription not supported for resources frozen due to security reasons.
400	CBC.990040 07	Failed to verify the email address.	Failed to verify the email address.
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.

Status Code	Error Code	Error Message	Description
400	CBC.990040 10	The verification code entered is incorrect.	The verification code entered is incorrect.
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.

Status Code	Error Code	Error Message	Description
400	CBC.990060 74	The billing item does not exist.	The billing item does not exist.
400	CBC.990060 93	Failed to obtain tax rate information.	Failed to obtain the tax rate.
400	CBC.990080 40	Too many attempts.	Too many attempts.
401	CBC.0154	Invalid or expired token.	Invalid or expired token.
403	CBC.0150	Invalid operation.	Invalid operation.
403	CBC.0151	Access denied.	Access denied.
403	CBC.0155	The request was a valid request, but the server is refusing to respond to it.	The request was a valid request, but the server is refusing to respond to it.
429	CBC.0250	Connection request control triggered.	Connection request control triggered.
500	CBC.0999	Other errors.	Other errors.
500	CBC.7001	Failed to allocate money to the member account because the primary account is not associated with the subaccount.	Failed to allocate money to the member account because the primary account is not associated with the sub-account.
500	CBC.7004	The initiated service operation does not meet the service check item requirement.	The initiated service operation does not meet the service check item requirement.
500	CBC.7181	the validity period of the credit line allocated or recovered has expired.	The credit limit allocated to or withdrawn from the customer account has expired.
500	CBC.7228	Invalid password.	Invalid password.

12.5 SDK Overview

This document provides the SDKs of different programming languages for customer operations and the addresses for obtaining the latest SDK versions.

Generating SDK Code Online

Use API Explorer to dynamically generate SDK code.

SDKs

Table 1 lists the SDK versions supported by customer operations. You can view SDK updates, obtain installation packages, and view user guides in GitHub.

Table 12-3 SDKs

Programming Languages	GitHub Address	Documentation
Java	huaweicloud-sdk-java-v3	Java SDK Usage Guide
Python	huaweicloud-sdk- python-v3	Python SDK Usage Guide
Go	huaweicloud-sdk-go-v3	Go SDK User Guide
NodeJs	huaweicloud-sdk-nodejs- v3	Node.js SDK User Guide
.NET	huaweicloud-sdk-net-v3	.Net SDK Usage Guide
PHP	huaweicloud-sdk-php-v3	PHP SDK User Guide'
C++	huaweicloud-sdk-cpp-v3	C++ SDK User Guide

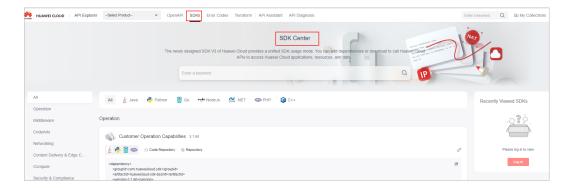
12.6 SDK-related FAQ

How Do I Update the SDK Version?

The SDK version will be updated accordingly after a product is updated. If the current version is not the latest, you are advised to update the SDK version.

Log in to SDK Center. You can access and use the SDK V3.

You can select an SDK by service and language in SDK Center. The code repository, Nuget repository, and related APIs are included.



Can I Modify the Region of an SDK?

The region of an SDK is a global domain name and cannot be modified. If you modify the region, APIs cannot be debugged. The following figure shows an example in Java.

