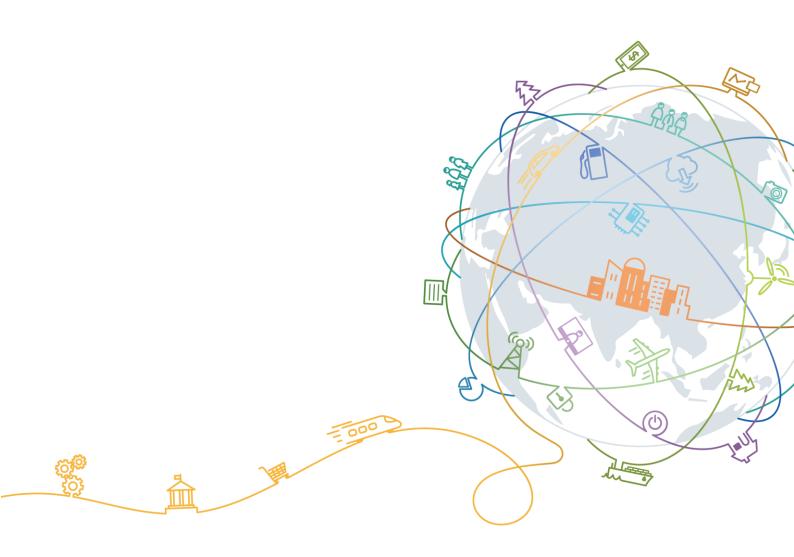
Customer Operation Capabilities

API Reference

lssue 50 Date 2024-03-29





Copyright © Huawei Technologies Co., Ltd. 2025. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions

HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base Bantian, Longgang Shenzhen 518129 People's Republic of China

Website: https://www.huawei.com

Email: support@huawei.com

Contents

1 Change History	1
2 Customer Operations Capability API	16
3 API Invoking Methods	20
3.1 RESTful API	
3.1.1 Constructing Requests	
3.1.2 Authentication	
3.1.3 Returned Values	
3.2 API Access Permission (Customer)	
3.3 Request Throttling	
4 Managing Products	
4.1 Querying Product Information	
4.1.1 Querying Cloud Service Types	
4.1.2 Querying Resource Types	
4.1.3 Querying Resources by Cloud Service Type	
4.1.4 Querying Usage Types	
4.1.5 Querying Measurement Units	
4.1.6 Querying the Measurement Unit Number System	
4.2 Querying the Price of a Product	
4.2.1 Querying the Price of a Pay-Per-Use Product	
4.2.2 Querying the Price of a Yearly/Monthly Product	
4.2.3 Querying the Renewal Price of a Yearly/Monthly Resource	
5 Managing Accounts	86
5.1 Querying the Account Balance	
6 Transaction Management	90
6.1 Managing Coupons	
6.1.1 Querying Coupons	
6.2 Managing Yearly/Monthly Orders	
6.2.1 Querying Orders	
6.2.2 Querying Order Details	
6.2.3 Querying Available Discounts of an Order	
6.2.4 Paying Yearly/Monthly Product Orders	

6.2.5 Canceling Orders in the Pending Payment Status	139
6.2.6 Querying the Amount of Unsubscription Orders	141
6.3 Managing Yearly/Monthly Resources	144
6.3.1 Querying Customer's Yearly/Monthly Resources	144
6.3.2 Renewing Subscription to Yearly/Monthly Resources	151
6.3.3 Unsubscribing from Yearly/Monthly Resources	156
6.3.4 Enabling Automatic Subscription Renewal for Yearly/Monthly Resources	160
6.3.5 Disabling Automatic Subscription Renewal for Yearly/Monthly Resources	163
6.3.6 Enabling/Canceling the Change from Yearly/Monthly to Pay-per-Use upon Expiration	165
6.3.7 Setting a Deduction Date for Auto-Renewal of Yearly/Monthly Resources and a Same Expiration Date for Renewed Resources	168
6.4 Managing Resource Packages	172
6.4.1 Querying Resource Packages	172
6.4.2 Viewing Resource Package Usage	180
6.4.3 Querying Resource Package Usage Details	184
7 Managing Bills	190
7.1 Querying Bill Summary	190
7.2 Viewing Resource Usage Details	198
7.3 Viewing Resource Expenditures	212
8 Cost Management	230
8.1 Querying Cost Data	230
9 Managing an Enterprise	239
9.1 Managing Enterprise Projects	239
9.1.1 Enabling the Enterprise Project Management	239
9.2 Managing Enterprise Accounts	241
9.2.1 Querying Enterprise Member Accounts	
10 Invoice Management	246
10.1 Invoice Management	246
10.1.1 Querying the Invoice List	246
11 APIs to Be Taken Offline	255
11.1 Product Management	255
11.1.1 Querying Product Information	
11.1.1.1 Querying Cloud Service Types (Old)	
11.1.1.2 Querying Resource Types (Old)	258
11.2 Transaction Management	261
11.2.1 Yearly/monthly Order Management	
11.2.1.1 Querying Orders (Old)	
11.2.1.2 Querying Order Details (Old)	271
11.2.1.3 Paying Yearly/Monthly Product Orders (Old)	280
11.2.2 Yearly/Monthly Resource Management	287

11.2.2.1 Querying Customer's Yearly/Monthly Resources (Old) 287 11.2.2.2 Renewing Subscription to Yearly/Monthly Resources (Old) 293 11.2.2.3 Unsubscribing from Yearly/Monthly Resources (Old) 298 11.2.3 Managing Resource Packages. 303 11.2.3 I Querying the Package Usage (Old) 303 11.3 Bill Management. 307 11.3.1 Querying Bill Summary (Old) 307 11.3.2 Viewing Resource Expenditures (Old) 315 11.3.3 Viewing Resource Expenditures (Old) 323 12 Appendix 331 12.1 How Do I Obtain customer_id or domain_id? 331 12.2 Support for Discounts or Coupons 332 12.4 Error Codes 338 12.5 SDK Overview. 351 12.6 SDK-related FAQ 351 12.7 Cipher Suites Allowed in TLS1.2 and TLS1.3 352 12.8 Price Inquiry API Guide 354 12.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator) 354 12.8.2 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator) 357		
11.2.2.3 Unsubscribing from Yearly/Monthly Resources (Old). 298 11.2.3 Managing Resource Packages. 303 11.2.3 I Querying the Package Usage (Old). 303 11.3 Bill Management. 307 11.3.1 Querying Bill Summary (Old) 307 11.3.2 Viewing Resource Usage Details (Old) 315 11.3.3 Viewing Resource Expenditures (Old) 323 12 Appendix 331 12.1 How Do I Obtain customer_id or domain_id? 331 12.2 Support for Discounts or Coupons 332 12.4 Error Codes 338 12.5 SDK Overview. 351 12.6 SDK-related FAQ 351 12.7 Cipher Suites Allowed in TLS1.2 and TLS1.3 352 12.8 Price Inquiry API Guide 354 12.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator) 354	11.2.2.1 Querying Customer's Yearly/Monthly Resources (Old)	
11.2.3 Managing Resource Packages.30311.2.3.1 Querying the Package Usage (Old)30311.3 Bill Management.30711.3.1 Querying Bill Summary (Old)30711.3.2 Viewing Resource Usage Details (Old)31511.3.3 Viewing Resource Expenditures (Old)31511.3.3 Viewing Resource Expenditures (Old)323 12 Appendix331 12.1 How Do I Obtain customer_id or domain_id?33112.2 Support for Discounts or Coupons33212.3 Status Codes and Retry Policies33212.4 Error Codes33812.5 SDK Overview35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	11.2.2.2 Renewing Subscription to Yearly/Monthly Resources (Old)	
11.2.3.1 Querying the Package Usage (Old)30311.3 Bill Management30711.3.1 Querying Bill Summary (Old)30711.3.2 Viewing Resource Usage Details (Old)31511.3.3 Viewing Resource Expenditures (Old)323 12 Appendix331 12.1 How Do I Obtain customer_id or domain_id?33112.2 Support for Discounts or Coupons33212.3 Status Codes and Retry Policies33212.4 Error Codes33812.5 SDK Overview35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	11.2.2.3 Unsubscribing from Yearly/Monthly Resources (Old)	
11.3 Bill Management.30711.3.1 Querying Bill Summary (Old)30711.3.2 Viewing Resource Usage Details (Old)31511.3.3 Viewing Resource Expenditures (Old)323 12 Appendix331 12.1 How Do I Obtain customer_id or domain_id?33112.2 Support for Discounts or Coupons33212.3 Status Codes and Retry Policies33212.4 Error Codes33812.5 SDK Overview35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	11.2.3 Managing Resource Packages	
11.3.1 Querying Bill Summary (Old)30711.3.2 Viewing Resource Usage Details (Old)31511.3.3 Viewing Resource Expenditures (Old)323 12 Appendix331 12.1 How Do I Obtain customer_id or domain_id?33112.2 Support for Discounts or Coupons33212.3 Status Codes and Retry Policies33212.4 Error Codes33812.5 SDK Overview35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	11.2.3.1 Querying the Package Usage (Old)	
11.3.2 Viewing Resource Usage Details (Old)31511.3.3 Viewing Resource Expenditures (Old)323 12 Appendix331 12.1 How Do I Obtain customer_id or domain_id?33112.2 Support for Discounts or Coupons33212.3 Status Codes and Retry Policies33212.4 Error Codes33812.5 SDK Overview.35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	11.3 Bill Management	
11.3.3 Viewing Resource Expenditures (Old)	11.3.1 Querying Bill Summary (Old)	
12 Appendix33112.1 How Do I Obtain customer_id or domain_id?33112.2 Support for Discounts or Coupons33212.3 Status Codes and Retry Policies33212.4 Error Codes33812.5 SDK Overview35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	11.3.2 Viewing Resource Usage Details (Old)	
12.1 How Do I Obtain customer_id or domain_id?33112.2 Support for Discounts or Coupons33212.3 Status Codes and Retry Policies33212.4 Error Codes33812.5 SDK Overview35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	11.3.3 Viewing Resource Expenditures (Old)	
12.2 Support for Discounts or Coupons33212.3 Status Codes and Retry Policies33212.4 Error Codes33812.5 SDK Overview35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	10 Annually	221
12.3 Status Codes and Retry Policies33212.4 Error Codes33812.5 SDK Overview35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	12 Appendix	
12.4 Error Codes33812.5 SDK Overview35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354		
12.5 SDK Overview.35112.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	12.1 How Do I Obtain customer_id or domain_id?	
12.6 SDK-related FAQ35112.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	12.1 How Do I Obtain customer_id or domain_id?12.2 Support for Discounts or Coupons	
12.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	 12.1 How Do I Obtain customer_id or domain_id? 12.2 Support for Discounts or Coupons 12.3 Status Codes and Retry Policies	
12.7 Cipher Suites Allowed in TLS1.2 and TLS1.335212.8 Price Inquiry API Guide35412.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)354	 12.1 How Do I Obtain customer_id or domain_id? 12.2 Support for Discounts or Coupons 12.3 Status Codes and Retry Policies . 12.4 Error Codes 	
12.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)	 12.1 How Do I Obtain customer_id or domain_id?	
	 12.1 How Do I Obtain customer_id or domain_id? 12.2 Support for Discounts or Coupons. 12.3 Status Codes and Retry Policies . 12.4 Error Codes. 12.5 SDK Overview. 12.6 SDK-related FAQ	
12.8.2 Price Inquiry Example of Pay-Per-Use Products (Using the Price Calculator)	 12.1 How Do I Obtain customer_id or domain_id? 12.2 Support for Discounts or Coupons 12.3 Status Codes and Retry Policies	331 332 332 338 351 351 352
	 12.1 How Do I Obtain customer_id or domain_id? 12.2 Support for Discounts or Coupons 12.3 Status Codes and Retry Policies 12.4 Error Codes 12.5 SDK Overview 12.6 SDK-related FAQ 12.7 Cipher Suites Allowed in TLS1.2 and TLS1.3 12.8 Price Inquiry API Guide 	

1 Change History

What's New	Released On
This issue is the 146th official release.	2025-06-26
This release incorporates the following changes:	
• The number of decimal places in the unit_price parameter in the response of the V2 API for 7.3 Viewing Resource Expenditures is changed from 8 to 10, which is consistent with the actual product unit price.	
• The error code CBC.99003143: The product in this order is no longer available. is added to the V3 API for 6.2.4 Paying Yearly/Monthly Product Orders .	
• Brought the old V2 API for querying the resource package list offline.	
• The traffic quota is changed to 20/1(s) for the V2 APIs for querying the enterprise member account list and account balance.	
This issue is the sixty-fifth official release.	2025-05-30
This release incorporates the following changes:	
• Added the V2 API for 6.3.7 Setting a Deduction Date for Auto-Renewal of Yearly/Monthly Resources and a Same Expiration Date for Renewed Resources.	
• Added the V2 API for 7.1 Querying Bill Summary. The V1 API for querying summary bills is moved to the APIs to be brought offline.	
This issue is the sixty-fourth official release.	2025-04-28
This release incorporates the following changes:	
• Deleted the request parameter expire_policy (expiration policy) from the V2 API for 6.3.2 Renewing Subscription to Yearly/Monthly Resources.	
• Deleted the request parameter expire_mode (expiration policy) from the old API for 11.2.2.2 Renewing Subscription to Yearly/Monthly Resources (Old).	
This issue is the sixty-third official release.	2025-03-24

What's New	Released On
This release incorporates the following change:	
• The traffic quota of the V2 API for renewing yearly/monthly resources is changed from 10/1(s) to 20/1(s).	
This issue is the sixty-second official release.	2025-02-24
This release incorporates the following changes:	
• Added the response field extend_params (resource relationship information) to the V2 API for 7.2 Viewing Resource Usage Details. This parameter is reserved.	
• Added the API for 9.2.1 Querying Enterprise Member Accounts. The enterprise master account can use this API to query the enterprise member accounts on the self-built platform.	
This issue is the sixty-first official release.	2025-01-20
This release incorporates the following changes:	
• Added the relative_order_id field to responses of the V2 API for 7.3 Viewing Resource Expenditures. The field indicates the ID of the customer order.	
• Added the be_id field to responses of the V2 API for 7.2 Viewing Resource Usage Details. The field indicates the Huawei Cloud business entity ID.	
 Changed the permission for querying yearly/monthly resources to bss:renewal:view bss:order:view (to be brought offline) and that for unsubscribing from yearly/monthly resources to bss:unsubscribe:update bss:order:update (to be brought offline). 	
The permission for querying resource package usage details is changed to bss:bill:view bss:billDetail:view (to be brought offline).	
The permission for querying resource expenditures is changed to bss:bill:view bss:billDetail:view (to be brought offline).	
For details about more permissions, see 3.2 API Access Permission (Customer).	
• Added the sub_order_infos field to the order_infos field in the response of the V2 API for 6.2.1 Querying Orders.	
• Added the sub_order_infos field to the order_infos field in the response of the V2 API for 6.2.2 Querying Order Details. Added the order_id field (order ID) to the order_line_items response field.	
This issue is the sixtieth official release.	2024-12-23
This release incorporates the following changes:	
• Added the update_time (resource update time) and enterprise_project (customer resource enterprise project details) response fields to the V2 API for 6.3.1 Querying	

What's New	Released On
Customer's Yearly/Monthly Resources.	
• Added response field consume_time (expenditure time) to the V2 API for 7.3 Viewing Resource Expenditures.	
• Added response field consume_time (expenditure time) to the V2 API for 7.2 Viewing Resource Usage Details.	
This issue is the fifty-ninth official release.	2024-11-26
This release incorporates the following changes:	
• Added response parameters product_spec_desc (product specifications), spec_size (product instance size), and spec_size_measure_id (unit of the product instance size) to the V2 API for 6.3.1 Querying Customer's Yearly/Monthly Resources.	
 Added the pending_payment_end_time and base_product_info response parameters to the V2 API for 6.2.2 Querying Order Details. pending_payment_end_time indicates the payment end time of an unpaid order, and base_product_info indicates the product information in the order line before the change. 	
This issue is the fifty-eighth official release.	2024-10-29
This release incorporates the following changes:	
• In section 6.1.1 Querying Coupons:	
 Deleted the enumerated value Not activated from the status request parameter of the API. 	
 Deleted the description For used, expired, and reclaimed coupons, data within 12 months after expiration can be queried. 	
• Added the enterprise_projects field to the response of the API for 6.2.1 Querying Orders.	
• Changed the maximum length of resourceTag in the responses of the APIs in 11.3.3 Viewing Resource Expenditures (Old) and 11.3.2 Viewing Resource Usage Details (Old) to 8,192.	
• Changed the maximum length of resourceTag in the responses of the APIs in 7.3 Viewing Resource Expenditures and 7.2 Viewing Resource Usage Details to 8,192.	
• Changed the traffic quota for querying resource details from 10/1(s) to 30/1(s) .	
This issue is the fifty-seventh official release.	2024-9-26
This release incorporates the following changes:	
Added an enumerated value (3: By details) to the statistic_type request parameter of the V2 API for 7.2 Viewing Resource Usage Details. Added the response parameters: effective_time and expire_time .	
Changed the description of query_type : The information type, DAILY , is returned only when the statistic_type is set to 2 or	

What's New	Released On
3.	
This issue is the fifty-sixth official release.	2024-8-29
This release incorporates the following change:	
Starting from September 1, 2024 00:00:00 GMT+08:00, Huawei Cloud optimizes the billing cycle calculation rules based on the user agreement. After the optimization, the billing cycle will be associated with the expenditure time.	
For more details, see How Does Huawei Cloud Calculate the Billing Cycle?	
This issue is the fifty-fifth official release.	2024-8-29
This release incorporates the following changes:	
• The description "The return value of this parameter is manually entered by the user when placing a resource order. Internationalization is not supported" was added for the resource_name and sub_resource_name parameters for the 7.3 Viewing Resource Expenditures API. And the description "The return value of this parameter is manually entered by users. Internationalization is not supported" was added for the enterprise_project_name parameter.	
• The parameter payer_account_id (the account ID of the payer) was added to the V2 API for 7.2 Viewing Resource Usage Details.	
This issue is the fifty-fourth official release.	2024-6-28
This release incorporates the following changes:	
• Added error code CBC.18000053, "Insufficient permissions. Contact your enterprise master", to the V4 API for 8.1 Querying Cost Data.	
• Added the CBC.30010035 error code, "Resource deleted", and the CBC.30000067 error code, "Unsubscription not supported. This resource has been deleted or the subscription to this resource has not been synchronized to CBC", to the 11.2.2.3 Unsubscribing from Yearly/Monthly Resources (Old) and 6.3.3 Unsubscribing from Yearly/Monthly Resources for unsubscribing from yearly/monthly resources.	
• Added the following description to the V2 API for 4.2.1 Querying the Price of a Pay-Per-Use Product: You can use the price calculator to determine product prices. You can also use the price calculator to get the value of the product_infos request parameter when you call the API for querying product prices. For more details, see 12.8.2 Price Inquiry Example of Pay-Per-Use Products (Using the Price Calculator).	
• Added the following description, "You can use the price calculator to determine product prices", to the V2 API for 4.2.2 Querying the Price of a Yearly/Monthly Product. You can also use the price calculator to get the value of the	

W	hat's New	Released On
	product_infos request parameter when you call the API for querying product prices. For more details, see 12.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator).	
•	Added an enumeration (5: withdrawn) to the request parameter, status in the V2 API for 6.1.1 Querying Coupons.	
•	Added an enumeration (3: closed) to the request parameter, status_list in the V2 API for 6.3.1 Querying Customer's Yearly/Monthly Resources.	
Th	is issue is the fifty-third official release.	2024-5-28
Th	is release incorporates the following changes:	
•	Added the request parameter, include_relative_resources (whether to include associated resources for the query), to the V2 API for 4.2.3 Querying the Renewal Price of a Yearly/Monthly Resource. Added a description for the response parameter,	
	RenewInquiryResultInfo.resource_id. This parameter indicates that if the request contains the include_relative_resources field, the renewal amount of the associated primary resource will be returned.	
•	Added the request parameters, service_type_code (the ID of the cloud service type), to the V2 API for 6.3.1 Querying Customer's Yearly/Monthly Resources.	
•	Added the CBC.30010069 error code to the V2 API for 6.3.2 Renewing Subscription to Yearly/Monthly Resources. This error code indicates that the renewal period does not exist.	
•	Added the CBC.99003154 error code to the V1 API for 11.2.2.2 Renewing Subscription to Yearly/Monthly Resources (Old). This error code indicates that the subscription period plus the renewal is too long, so a shorter renewal needs to be selected.	
•	Added request parameter service_type_code_list to the V3 API for 6.4.1 Querying Resource Packages. This parameter is used to specify the IDs of cloud service types, and the values are case-insensitive.	
•	Added parameters and descriptions to the V2 API for querying resource purchase records:	
	bill_date_begin&bill_date_end : This field does not take effect when statistics are collected by billing cycle type.	
	id : This value of the unique ID will not be returned when statistics are collected by billing cycle type.	
	usage : If the resource type is yearly/monthly resources, resource usage is not returned.	
	usage_measure_id : If the resource type is yearly/monthly resources, the resource usage measurement unit is not returned.	

What's New	Released On
 unit: When statistic_type is set to 1, the unit of yearly/monthly product price will not be returned. formula: When statistic_type is set to 1 (by billing cycle type), the formula for calculating the actual payment amount will not be returned. 	
• Added the header parameter, X-Language (language) to the V2 API for 7.2 Viewing Resource Usage Details.	
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 6.3.3 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 6.3.2 Renewing Subscription to Yearly/Monthly Resources.	
 Deleted error code, 400 CBC.99006073 (Project does not exist), from the V2 API for 4.2.1 Querying the Price of a Pay-Per-Use Product. " 	
• Released the V2 API for 9.1.1 Enabling the Enterprise Project Management.	
• Modified the limit of the range (for order creation and payment time) queried to one year for the 6.2.1 Querying Orders and 11.2.1.1 Querying Orders (Old) APIs.	
• Added the error code, CBC.18000048 (Too many independent accounting members. Specify a member account for query), to the V4 API for 8.1 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.	
This issue is the fiftieth official release.	2024-2-23
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. "	
This issue is the forty-ninth official release.	2024-01-25
This release incorporates the following changes:	
• Added the error code, CBC.99000092 (Incorrect subscription period.), to the V2 API for renewing yearly/monthly subscriptions.	

What's New	Released On
• The V1 API for canceling unpaid orders was taken offline.	
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, 6.2.4 Paying Yearly/Monthly Product Orders. 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, 7.3 Viewing Resource Expenditures and 7.2 Viewing Resource Usage Details. Added the enumerated value 611: Savings plan to the parameter promotion_type of the API for querying bill summary. Added the enumeration, 11: Savings plan to the parameter, cycleType for the API, 6.1.1 Querying Coupons. 	2023-06-29
 This issue is the forty-fifth official release. This release incorporates the following changes: Added response parameters, pre_order_id, az_code_infos, and az_code to the API of 7.2 Viewing Resource Usage Details for querying the original order ID, AZ information list, and AZ codes. Added the section 3.2 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 4.2.3 Querying the Renewal Price of a Yearly/Monthly Resource. 	2023-4-18
This issue is the forty-fourth official release. This release incorporates the following change: Added the API for 4.2.3 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. This release incorporates the following change:	2023-3-30 2023-2-9
Added the response parameter fail_resource_infos (for querying the resources that fail to be subscribed to or	

What's New	Released On
unsubscribed from) to the APIs for 6.3.2 Renewing Subscription to Yearly/Monthly Resources and 6.3.3 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 6.4.3 Querying Resource Package Usage Details.	
 Added the following response parameters to the APIs for 7.2 Viewing Resource Usage Details and 7.3 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 8.1 Querying Cost Data to "A maximum of 2 values".	
• Added the response parameter formula to the API for 7.3 Viewing Resource Expenditures.	
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 6.2.4 Paying Yearly/Monthly Product Orders, and moved the V2 API for 11.2.1.3 Paying Yearly/Monthly Product Orders (Old) to 11 APIs to Be Taken 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 7.2 Viewing 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 11.3.3 Viewing Resource Expenditures (Old) has been changed to 20: Refund - change (entire server) , and the value 21: Refund – change (specification downgrade) is added.	

What's New	Released On
This issue is the thirty-sixth official release.	2022-08-16
This release incorporates the following change:	
Add the API for 8.1 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 6.3.3 Unsubscribing from Yearly/Monthly Resources.	
This issue is the thirty-third official release.	2022-07-05
This release incorporates the following changes:	
Added the following description for the API in 6.3.3 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 7.2 Viewing Resource Usage Details.	
• Added the API for 4.1.1 Querying Cloud Service Types, and moved the old API for 11.1.1.1 Querying Cloud Service Types (Old) to 11 APIs to Be Taken Offline.	
• Added the API for 4.1.2 Querying Resource Types, and moved the old API for 11.1.1.2 Querying Resource Types (Old) to 11 APIs to Be Taken 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 4.1.4 Querying Usage Types, paying yearly/monthly product orders, 6.2.6 Querying the Amount of Unsubscription Orders, 6.3.1 Querying Customer's Yearly/Monthly Resources, and querying bill summary.	
• 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 7.2 Viewing Resource Usage Details and 7.3 Viewing Resource Expenditures.	
• Added service_type_name, indicating the cloud service type, to the response parameters of the APIs for 6.2.2 Querying Order Details and 6.4.1 Querying Resource	

What's New	Released On
Packages.	
 This issue is the thirty-first official release. 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 5.1 Querying the Account Balance. 	2022-03-25
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 6.3.5 Disabling Automatic Subscription 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 7.2 Viewing 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 6.3.2 Renewing Subscription to Yearly/Monthly Resources. Added error code CBC.99003602 in the response of the API for 6.3.4 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 11.3.3 Viewing Resource Expenditures (Old). 	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 4.2.2 Querying the Price of a Yearly/Monthly Product. Added error code CBC.30050006 in the response of the API for 6.3.2 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 V2 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 7.2 Viewing Resource Usage Details to support querying resource usage details by day. 	2021-11-30
• Deleted error code CBC.99003001 from the API in 6.3.2 Renewing Subscription to Yearly/Monthly Resources.	
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 6.3.2 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 6.4.1 Querying Resource Packages and moved the V2 API for querying resource packages to 11 APIs to Be Taken Offline. Added request parameters expire_time_begin and expire_time_end to the API in 6.3.1 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 7.3 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 11.2.3.1 Querying the Package Usage (Old) to 11 APIs to Be Taken 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 6.2.2 Querying Order Details to specify the order creator returned by the API for querying order details.	2021-07-13
This issue is the twentieth official release.This release incorporates the following changes:Added the API for querying the resource packages of a	2021-06-15

What's New	Released On
 customer in Querying Resource Packages (Old). Added the API for querying the resource package usage in 6.4.2 Viewing Resource Package Usage. 	
This issue is the nineteenth official release. This release incorporates the following change: Added 6.2.3 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 7.2 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 7.3 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 4.1.5 Querying Measurement Units and 4.1.6 Querying the Measurement Unit Number System. Modified the V2 interface in 7.3 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
 This issue is the fifteenth official release. This release incorporates the following changes: Added 4.1.4 Querying Usage Types for querying usage types. Added 6.3.6 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 6.2.1 Querying Orders, 6.2.2 Querying Order Details, and 11.3.1 Querying Bill Summary 	2020-11-18

What's New	Released On
(Old), as well as 11.2.1.1 Querying Orders (Old) and 11.2.1.2 Querying Order Details (Old) to be brought offline.	
This issue is the fourteenth official release.	2020-11-04
This release incorporates the following changes:	
Added 11.1.1.1 Querying Cloud Service Types (Old) for querying cloud service types.	
Added 11.1.1.2 Querying Resource Types (Old) for querying resource types.	
Added 4.1.3 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 7.3 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 7.3 Viewing Resource Expenditures.	
• Added query parameters method and sub_customer_id and response parameter customer_id in 7.2 Viewing Resource Usage Details.	
Supported the function of querying bill data of only a sub customer of an enterprise or a customer itself.	
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 6.2.2 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.	
 6.2.1 Querying Orders 	
 6.2.2 Querying Order Details 	
- 6.2.6 Querying the Amount of Unsubscription Orders	
 7.2 Viewing Resource Usage Details 	
 7.3 Viewing Resource Expenditures 	
- 5.1 Querying the Account Balance	
This issue is the tenth official release.	2020-09-02
This release incorporates the following changes:	
 Modified 7.3 Viewing Resource Expenditures and added parameters enterprise_project_name and 	

What's New	Released On
product_spec_desc in Table 7-10.	
• Added error codes CBC.99006006, CBC.99006055, and CBC.99006074 in 4.2.1 Querying the Price of a Pay-Per-Use Product and 4.2.2 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 5.1 Querying the Account Balance.	
This issue is the eighth official release.	2020-06-30
This release incorporates the following changes:	
• Added the V2 interface in 6.2.6 Querying the Amount of Unsubscription Orders.	
• Added the V2 interface in 6.3.1 Querying Customer's Yearly/Monthly Resources and moved the V1 interface in 11.2.2.1 Querying Customer's Yearly/Monthly Resources (Old) to 11 APIs to Be Taken Offline.	
• Added the V2 interface in 6.3.4 Enabling Automatic Subscription Renewal for Yearly/Monthly Resources and moved the V1 interface in Enabling Automatic Subscription Renewal for Yearly/Monthly Resources to 11 APIs to Be Taken Offline.	
• Added the V2 interface in 6.3.5 Disabling Automatic Subscription Renewal for Yearly/Monthly Resources and moved the V1 interface in Disabling Automatic Subscription Renewal for Yearly/Monthly Resources to 11 APIs to Be Taken Offline.	
This issue is the seventh official release.	2020-06-17
This release incorporates the following changes:	
• Added the V2 interface in 6.2.1 Querying Orders and moved the V1 interface in 11.2.1.1 Querying Orders (Old) to 11 APIs to Be Taken Offline.	
• Added the V2 interface in 6.2.2 Querying Order Details and moved the V1 interface in 11.2.1.2 Querying Order Details (Old) to 11 APIs to Be Taken Offline.	
• Added the V2 API for paying yearly/monthly product orders. Moved the V1 API from Paying Yearly/Monthly Product Orders (Old) to 11 APIs to Be Taken Offline.	
• Added the V2 interface in 6.2.5 Canceling Orders in the Pending Payment Status and moved the V1 interface in Canceling Orders in the Pending Payment Status to 11 APIs to Be Taken Offline.	
• Added the V2 interface in 6.3.2 Renewing Subscription to Yearly/Monthly Resources and moved the V1 interface in 11.2.2.2 Renewing Subscription to Yearly/Monthly Resources (Old) to 11 APIs to Be Taken Offline.	
• Added the V2 interface in 6.3.3 Unsubscribing from	

Yearly/Monthly Resources and moved the V1 interface in 11.2.2.3 Unsubscribing from Yearly/Monthly Resources (Old) to 11 APIs to Be Taken Offline.This issue is the sixth official release. This release incorporates the following changes:2020-04-22• Brought the V2 API in 7.3 Viewing Resource Expenditures online and the API in 11.3.3 Viewing Resource Usage Details online and the API in 11.3.2 Viewing Resource Usage Details (Old) offline.2020-03-25This release incorporates the following changes: Added 4.2.1 Querying the Price of a Pay-Per-Use Product and 4.2.2 Querying the Price of a Yearly/Monthly Product.2020-01-17This issue is the fourth official release. This release incorporates the following change: Added 11.2.3.1 Querying the Package Usage (Old).2020-01-15This issue is the third official release. This release incorporates the following change: Added 11.2.3.1 Querying the Package Usage (Old).2020-01-15This issue is the third official release. This release incorporates the following change: Added 10.1.1 Querying the Invoice List.2019-12-25	What's New	Released On
This release incorporates the following changes:• Brought the V2 API in 7.3 Viewing Resource Expenditures online and the API in 11.3.3 Viewing Resource Expenditures (Old) offline.• Brought the V2 API in 7.2 Viewing Resource Usage Details online and the API in 11.3.2 Viewing Resource Usage Details (Old) offline.This issue is the fifth official release. This release incorporates the following changes: Added 4.2.1 Querying the Price of a Pay-Per-Use Product and 4.2.2 Querying the Price of a Yearly/Monthly Product.This issue is the fourth official release. This release incorporates the following change: Added 11.2.3.1 Querying the Package Usage (Old).This issue is the third official release. This release incorporates the following change: Added 10.1.1 Querying the Invoice List.This issue is the second official release. 2019-12-25	11.2.2.3 Unsubscribing from Yearly/Monthly Resources	
 Brought the V2 API in 7.3 Viewing Resource Expenditures online and the API in 11.3.3 Viewing Resource Expenditures (Old) offline. Brought the V2 API in 7.2 Viewing Resource Usage Details online and the API in 11.3.2 Viewing Resource Usage Details (Old) offline. This issue is the fifth official release. Added 4.2.1 Querying the Price of a Pay-Per-Use Product and 4.2.2 Querying the Price of a Yearly/Monthly Product. This issue is the fourth official release. This release incorporates the following change: Added 11.2.3.1 Querying the Package Usage (Old). This issue is the third official release. Added 10.1.1 Querying the Invoice List. This issue is the second official release. 2019-12-25 	This issue is the sixth official release.	2020-04-22
online and the API in 11.3.3 Viewing Resource Expenditures (Old) offline.• Brought the V2 API in 7.2 Viewing Resource Usage Details online and the API in 11.3.2 Viewing Resource Usage Details (Old) offline.This issue is the fifth official release.2020-03-25This release incorporates the following changes: Added 4.2.1 Querying the Price of a Pay-Per-Use Product and 4.2.2 Querying the Price of a Yearly/Monthly Product.2020-01-17This issue is the fourth official release. This release incorporates the following change: Added 11.2.3.1 Querying the Package Usage (Old).2020-01-17This issue is the third official release. This release incorporates the following change: Added 10.1.1 Querying the Invoice List.2020-01-15This issue is the second official release. 2019-12-252019-12-25	This release incorporates the following changes:	
Details online and the API in 11.3.2 Viewing Resource Usage Details (Old) offline.2020-03-25This issue is the fifth official release. Added 4.2.1 Querying the Price of a Pay-Per-Use Product and 4.2.2 Querying the Price of a Yearly/Monthly Product.2020-01-25This issue is the fourth official release. This release incorporates the following change: Added 11.2.3.1 Querying the Package Usage (Old).2020-01-17This issue is the third official release. This release incorporates the following change: Added 10.1.1 Querying the Invoice List.2020-01-15This issue is the second official release. 2019-12-252019-12-25	online and the API in 11.3.3 Viewing Resource	
This release incorporates the following changes: Added 4.2.1 Querying the Price of a Pay-Per-Use Product and 4.2.2 Querying the Price of a Yearly/Monthly Product.2020-01-17This issue is the fourth official release. This release incorporates the following change: Added 11.2.3.1 Querying the Package Usage (Old).2020-01-17This issue is the third official release. This release incorporates the following change: Added 10.1.1 Querying the Invoice List.2020-01-15This issue is the second official release. 2019-12-252019-12-25	Details online and the API in 11.3.2 Viewing Resource	
Added 4.2.1 Querying the Price of a Pay-Per-Use Product and 4.2.2 Querying the Price of a Yearly/Monthly Product.2020-01-17This issue is the fourth official release. This release incorporates the following change: Added 11.2.3.1 Querying the Package Usage (Old).2020-01-17This issue is the third official release. This release incorporates the following change: Added 10.1.1 Querying the Invoice List.2020-01-15This issue is the second official release. 2019-12-252019-12-25	This issue is the fifth official release.	2020-03-25
4.2.2 Querying the Price of a Yearly/Monthly Product.This issue is the fourth official release.This release incorporates the following change:Added 11.2.3.1 Querying the Package Usage (Old).This issue is the third official release.2020-01-15This release incorporates the following change:Added 10.1.1 Querying the Invoice List.This issue is the second official release.2019-12-25	This release incorporates the following changes:	
This release incorporates the following change: Added 11.2.3.1 Querying the Package Usage (Old).2020-01-15This issue is the third official release. This release incorporates the following change: Added 10.1.1 Querying the Invoice List.2019-12-25		
Added 11.2.3.1 Querying the Package Usage (Old).This issue is the third official release.2020-01-15This release incorporates the following change: Added 10.1.1 Querying the Invoice List.2019-12-25This issue is the second official release.2019-12-25	This issue is the fourth official release.	2020-01-17
This issue is the third official release.2020-01-15This release incorporates the following change: Added 10.1.1 Querying the Invoice List.2019-12-25This issue is the second official release.2019-12-25	This release incorporates the following change:	
This release incorporates the following change: Added 10.1.1 Querying the Invoice List.2019-12-25This issue is the second official release.2019-12-25	Added 11.2.3.1 Querying the Package Usage (Old).	
Added 10.1.1 Querying the Invoice List.This issue is the second official release.2019-12-25	This issue is the third official release.	2020-01-15
This issue is the second official release.2019-12-25	This release incorporates the following change:	
	Added 10.1.1 Querying the Invoice List.	
	This issue is the second official release.	2019-12-25
This release incorporates the following change:	This release incorporates the following change:	
Added the following response parameters in 11.3.1 Querying Bill Summary (Old) : total_amount, debt_amount, coupon_amount, cashcoupon_amount, storedcard_amount, debit_amount, credit_amount, and measure_id.	Bill Summary (Old) : total_amount, debt_amount, coupon_amount, cashcoupon_amount, storedcard_amount,	
This issue is the first official release. 2019-09-17		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.

Scenari o	Sub-Sce nario	API Name	Description
Managi ng products	Querying product informati	4.1.1 Querying Cloud Service Types	This API is used to query cloud service types on the customer self-built platform.
	on	4.1.2 Querying Resource Types	This API is used to query the resource types on the customer self-built platform.
		4.1.3 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.
		4.1.4 Querying Usage Types	This API is used to query resource usage types on the customer self-built platform.
		4.1.5 Querying Measurement 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.
		4.1.6 Querying the Measurement Unit Number System	This API is used to query the measurement unit number system on the self-built platform.
	Querying the price of a product	4.2.1 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.
		4.2.2 Querying the Price of a	Customers can use this API to query prices of yearly/monthly products for new subscriptions

Table 2-1 APIs and descriptions

Scenari o	Sub-Sce nario	API Name	Description
		Yearly/Monthly Product	on their platforms.
		4.2.3 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.
Managi ng account s	-	5.1 Querying the Account Balance	This API can be used to query the account balance for a customer.
Managi ng transacti	Managin g coupons	6.1.1 Querying Coupons	Customers can query information about their coupons.
ons	Managin g yearly/m onthly orders	6.2.1 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.
		6.2.2 Querying Order Details	Customers can view order details on the self-built platform.
		6.2.3 Querying Available Discounts of an Order	A customer can query available discounts when paying an order on the self-built platform.
		6.2.4 Paying Yearly/Monthly Product Orders	A customer can invoke this API to pay yearly-monthly product orders in the pending payment status.
		6.2.5 Canceling Orders in the Pending Payment Status	A customer can invoke this API to cancel orders in the pending payment status.
		6.2.6 Querying the Amount of Unsubscription Orders	A customer can query the resource type and order of the refund amount of an unsubscription or specification downgrade order on the partner sales platform.
	Managin g yearly/m onthly resources	6.3.1 Querying Customer's Yearly/Monthly Resources	A customer can query one or all yearly/monthly resources on the self-built platform.
		6.3.2 Renewing Subscription to Yearly/Monthly Resources	A customer can renew subscription to yearly/monthly resources on the self-built platform.

Scenari o	Sub-Sce nario	API Name	Description
		6.3.3 Unsubscribing 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.
		6.3.4 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.
		6.3.5 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.
		6.3.6 Enabling/Cancel ing 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.
		6.3.7 Setting a Deduction Date for Auto-Renewal of Yearly/Monthly Resources and a Same Expiration Date for Renewed Resources	This API can be used to set a deduction date for auto-renewal of yearly/monthly resources and a same expiration date for renewed resources.
	Resource package managem	6.4.1 Querying Resource Packages	A customer can query resource packages on the self-built platform.
	ent	6.4.2 Viewing Resource Package Usage	Customers can query the resource package usage on the self-built platform by resource.
		6.4.3 Querying Resource Package Usage Details	Customers can query the resource usage details on their self-built platform.

Scenari o	Sub-Sce nario	API Name	Description
Managi ng bills	Managin g bills	7.1 Querying Bill Summary	This API can be used by customers to query their expenditure summaries on the self-built platform. The expenditure data is summarized by month.
		7.2 Viewing Resource Usage Details	This API can be used to query usage details of each resource for a customer on the self-built platform.
		7.3 Viewing Resource Expenditures	This API can be used to query expenditures of each resource for a customer on the self-built platform.
Managi ng costs	Managin g costs	8.1 Querying Cost Data	This API is used to query the cost data on the self-built platform.
Managi ng the enterpri se	Managin g enterprise projects	9.1.1 Enabling the Enterprise Project Management	This API is used to enable the enterprise project management on your own platform.
	Managin g enterprise accounts	9.2.1 Querying Enterprise Member Accounts	This API can be used by an enterprise master account to query member accounts on the self-built platform.
Managi ng invoices	Managin g invoices	10.1.1 Querying the Invoice List	Customers can query the invoice list.

3 API Invoking Methods

- 3.1 RESTful API
- 3.2 API Access Permission (Customer)
- 3.3 Request Throttling

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.

Parameter	Description
URI-scheme	Protocol used to transmit requests. All APIs use HTTPS.
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

Table 3-1 UKI parameter description	Table 3-1	URI parameter descri	ption
--	-----------	----------------------	-------

Parameter	Description
	 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:

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.

Table	3-2	НТТР	methods
I add	3-2	11111	memous

Method	Description
РАТСН	Requests a server to update partial content of a specified resource.
	If the resource does not exist, the PATCH method is used to create a new resource.

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

POST https://bss-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.

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 authentication.	bss-intl.myhuaweicloud.com or bss-intl.myhuaweicloud.com :443
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	No This field is mandatory only when the token is used for	The following is part of an example token: MIIPAgYJKoZIhvcNAQcC oIIO8zCCDu8CAQExDTA LBglghkgBZQMEAgEwgg1

Table 3-3 Common request header fields

Field	Description	Mandatory	Example
	Authentication.	authentication.	QBgkqhkiG9w0BBwGggg1 BBIINPXsidG9rZ

D 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: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

(Optional) Request Body

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

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

In the case of the API used to create a customer, you can obtain the required request parameters and parameter description from the API request. The following is a request carrying the message body, where the request parameters vary with actual condition.

```
POST https://bss-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": "xxxxxxx",
  "is_close_market_ms": "true",
  "cooperation_type": "1"
```

}

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

Infrastructure Security for Customer Operations Capabilities

Customer operations capabilities are protected by Huawei Cloud's global network security.

For more information about Huawei Cloud security services and how Huawei Cloud protects the infrastructure, see the Huawei Cloud Security White Paper.

To use the best practices of infrastructure security to design your Huawei Cloud environment, please refer to the "Infrastructure Security" section in Security Pillar of *Well-Architected Framework*.

You can call the APIs released by Huawei Cloud to access customer operation capabilities through a network. The client must meet the following requirements:

- The Transport Layer Security (TLS) protocol should be used. TLS 1.2 is required, and TLS 1.3 is recommended.
- Encryption suites with perfect forward secrecy (PFS), like Diffie-Hellman Ephemeral (DHE) or Elliptic Curve Diffie-Hellman Ephemeral (ECDHE), should be used.

3.1.2 Authentication

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

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

Token Authentication

NOTE

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

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

In 3.1.1 Constructing Requests, the process of calling the API for obtaining a user token is described as an example. After obtaining the customer token, add the **X-Auth-Token** header in a request to specify the token when calling other APIs. For example, if the token is **ABCDEFJ....**, add **X-Auth-Token: ABCDEFJ....** in a request as follows:

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

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

AK/SK Authentication

D NOTE

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

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

• AK: access key ID, which is a unique identifier used together with an SK to sign requests cryptographically.

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

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

D NOTE

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

3.1.3 Returned Values

Status Code

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

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

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

Response Header

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

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

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

(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/regi
ster[error_code]:CBC.7156[msg]:{\"error_code\":\"CBC.7156\",\"error_msg\":\"domain
Name 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.
- Authentication of system-defined roles is not supported, but policy authentication is. For details about the configuration guide, see Creating a User Group and Assigning Permissions.
- The **bss:discount:view** permission code only affects the discount information returned in the response, but it does not affect the API call. When there is no permission, the API can still be accessed normally, but it will not return the discount information.
- For more details, visit:
 - Customer Operations Capability API (International Website)

Sc en ari o	Sub -Sce nari o	API Descrip tion	URL	Permis sion Code	Supported Action
Ma na gin	Quer ying prod	Queryin g pay-per-	POST /v2/bills/ratings/on-demand-re	bss:disc ount:vie	View discount and price information.

Sc en ari o	Sub -Sce nari o	API Descrip tion	URL	Permis sion Code	Supported Action
g pro du cts	uct price	use product price	sources	w	
		Queryin g the price of a yearly/m onthly product	POST /v2/bills/ratings/period-resourc es/subscribe-rate	bss:disc ount:vie w	View discount and price information.
		Queryin g the renewal price of yearly/m onthly resource s	POST /v2/bills/ratings/period-resourc es/renew-rate	bss:disc ount:vie w	View discount and price information.
Ma na gin g acc ou nts	Man agin g acco unts	Queryin g account balance	GET/v2/accounts/customer-ac counts/balances	bss:bala nce:vie w	View account information.
Ma na gin g tra	Man agin g coup ons	Queryin g coupons	GET /v2/promotions/benefits/coupo ns	bss:cou pon:vie w	View discount, cash, and flexi-purchase coupons.
nsa cti ons	Man agin g yearl y/mo nthly order s	Queryin g order lists	GET /v2/orders/customer-orders	bss:orde r:view	View order information.
		Queryin g order details	GET /v2/orders/customer-orders/det ails/{order_id}	bss:orde r:view	View order information.
		Cancelin g orders in the pending payment status	PUT /v2/orders/customer-orders/can cel	bss:orde r:update	Place orders, cancel orders, and modify recipient information.
		Paying a yearly/m	POST/v2/orders/customer-ord ers/pay	bss:orde r:pay	Pay orders.

Sc en ari o	Sub -Sce nari o	API Descrip tion	URL	Permis sion Code	Supported Action
		onthly order			
		Queryin g supporte d discount s of an order	GET /v2/orders/customer-orders/ord er-discounts	bss:disc ount:vie w	View discount and price information.
		Paying a yearly/m onthly order	POST /v3/orders/customer-orders/pa y	bss:orde r:pay	Pay orders.
		Queryin g financial informat ion of an order unsubscr ibed from	GET /v2/orders/customer-orders/ref und-orders	bss:orde r:view	View order information.
	Man agin g yearl y/mo nthly reso urces	Queryin g yearly/m onthly resource list	POST /v2/orders/suscriptions/resourc es/query	 bss:r ene wal: view bss: orde r:vie w (to be brou ght offli ne) 	View order information.
		Renewin g subscript ion to yearly/m onthly resource s	POST /v2/orders/subscriptions/resour ces/renew	bss:rene wal:upd ate	Renew resources, enable auto-renewal, set expiration policies, change the billing mode from pay-per-use to yearly/monthly, and release resources.
		Unsubsc	POST	• bss:	View resources that

Sc en ari o	Sub -Sce nari o	API Descrip tion	URL	Permis sion Code	Supported Action
		ribing from yearly/m onthly resource s	/v2/orders/subscriptions/resour ces/unsubscribe	unsu bscri be:u pdat e • bss: orde r:up date (to be brou ght offli ne)	can be or has been unsubscribed from, cancel delivery, and return or replace hardware.
		Enabling automati c renewal for yearly/m onthly resource s	POST /v2/orders/subscriptions/resour ces/autorenew/{resource_id}	bss:rene wal:upd ate	Renew resources, enable auto-renewal, set expiration policies, change the billing mode from pay-per-use to yearly/monthly, and release resources.
		Disablin g automati c renewal for yearly/m onthly resource s	DELETE /v2/orders/subscriptions/resour ces/autorenew/{resource_id}	bss:rene wal:upd ate	Renew resources, enable auto-renewal, set expiration policies, change the billing mode from pay-per-use to yearly/monthly, and release resources.
		Enabling /Canceli ng the change from yearly/m onthly to pay-per- use upon expiratio n	POST /v2/orders/subscriptions/resour ces/to-on-demand	bss:rene wal:upd ate	Renew resources, enable auto-renewal, set expiration policies, change the billing mode from pay-per-use to yearly/monthly, and release resources.
		Set a deductio	POST /v2/orders/subscriptions/resour	bss:rene wal:upd	Renew resources, enable auto-renewal,

Sc en ari o	Sub -Sce nari o	API Descrip tion	URL	Permis sion Code	Supported Action
		n date for auto-ren ewal of yearly/m onthly resource s and a same expiratio n date for renewed resource s.	ces/renew/config	ate	set expiration policies, change the billing mode from pay-per-use to yearly/monthly, and release resources.
	Man agin g reso urce pack ages	Queryin g the resource package s (V3)	POST/v3/payments/free-resour ces/query	bss:bill: view	View bills, monthly costs, usage details, cost management, expenditures and revenues, and cost trends.
		Queryin g resource package usage details	GET /v2/bills/customer-bills/free-re sources-usage-records	 bss: bill: view bss: bill Deta il:vi ew (to be brou ght offli ne) 	View expenditure details, resource expenditures, bill analysis, and historical payments.
		Queryin g the usage of a resource package	POST /v2/payments/free-resources/us ages/details/query	bss:bill: view	View bills, monthly costs, usage details, cost management, expenditures and revenues, and cost trends.
Ma na gin g bill	Man agin g bills	Viewing bill details	POST /v2/bills/customer-bills/res-rec ords/query	bss:bill Detail:v iew	View expenditure details, resource expenditures, bill analysis, and historical payments.

Sc en ari o	Sub -Sce nari o	API Descrip tion	URL	Permis sion Code	Supported Action
S		Query bill summar y.	GET /v2/bills/customer-bills/monthl y-sum	bss:bill: view	View bills, monthly costs, usage details, cost management, expenditures and revenues, and cost trends.
		Queryin g expendit ure records	GET /v2/bills/customer-bills/res-fee -records	 bss: bill Deta il:vi ew bss: bill: view (to be brou ght offli ne) 	View bills, monthly costs, usage details, cost management, expenditures and revenues, and cost trends.
Ma na gin g cos ts	Man agin g costs	Queryin g cost data	POST /v4/costs/cost-analysed-bills/q uery	bss:cost analysis :view	View cost analysis.
Ma na gin g the ent erp ris e	Man agin g enter prise proje cts	Enabling the enterpris e project manage ment service	POST /v2/enterprises/enterprise-proje cts/authority	bss:ente rprisePr ojectFu nction:u pdate	Enable the enterprise project management service
	Man agin g enter prise acco unts	Queryin g enterpris e member accounts	GET /v2/enterprises/multi-accounts/ sub-customers	bss:ente rpriseOr ganizati on:view	View organizations and accounts in the Enterprise Center.
Ma na gin g inv oic	Man agin g invoi ces	Queryin g invoice lists	GET /v1.0/{domain_id}/payments/i ntl-invoices	bss:invo ice:upd ate	Request invoices and view invoice information.

Sc en ari o	Sub -Sce nari o	Descrip	URL	Permis sion Code	Supported Action
es					

3.3 Request Throttling

What Is Request Throttling?

Request throttling is a method used by Huawei Cloud to control the frequency of calling open APIs. A quota refers to the maximum number of calls made to a single API within a specified time window.

Request Throttling for Customer Operations Capability APIs

D NOTE

Traffic quota: 10/1(s); API request throttling dimensions: source IP address, API, and ParentUid, indicating that a single user or source IP address can send up to 10 requests to the API every second.

Sce nar io	Sub- Scen ario	API	URL	Traf fic Quo ta	Quota Dimension
Ma nag ing Pro duc ts	ag ying Cloud Service ng prod Types ro uct uc infor		GET /v2/products/service-types	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		4.1.2 Querying Resource Types	GET /v2/products/resource-types	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		4.1.3 Querying Resources by Cloud Service Type	GET /v2/products/service-resources	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		4.1.4 Querying Usage Types	GET /v2/products/usage-types	10/1 (s)	API request throttling dimensions:

Sce nar io	Sub- Scen ario	API	URL	Traf fic Quo ta	Quota Dimension
					Source IP address, API, and ParentUid
		4.1.5 Querying Measurement Units	GET /v2/bases/measurements	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		4.1.6 Querying the Measurement Unit Number System	GET /v2/bases/conversions	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
	Quer ying prod uct price	4.2.1 Querying the Price of a Pay-Per-Use Product	POST /v2/bills/ratings/on-demand-re sources	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		4.2.2 Querying the Price of a Yearly/Monthl y Product	POST /v2/bills/ratings/period-resourc es/subscribe-rate	30/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		4.2.3 Querying the Renewal Price of a Yearly/Monthl y Resource	POST /v2/bills/ratings/period-resourc es/renew-rate	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
Ma nag ing Acc oun ts	-	5.1 Querying the Account Balance	GET /v2/accounts/customer-account s/balances	20/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
Ma nag ing Tra	Man agin g coup	6.1.1 Querying Coupons	GET /v2/accounts/partner-accounts/ account-change-records	10/1 (s)	API request throttling dimensions: Source IP

Sce nar io	Sub- Scen ario	API	URL	Traf fic Quo ta	Quota Dimension				
nsa ctio	ons				address, API, and ParentUid				
ns	Man agin g yearl y/mo nthly order	6.2.1 Querying Orders	GET /v2/orders/customer-orders	20/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid				
	S	6.2.2 Querying Order Details	GET /v2/orders/customer-orders/det ails/{order_id}	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid				
						6.2.3 Querying Available Discounts of an Order	GET /v2/orders/customer-orders/ord er-discounts	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
			6.2.4 Paying Yearly/Monthl y Product Orders	POST /v3/orders/customer-orders/pa y	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid			
						6.2.5 Canceling Orders in the Pending Payment Status	PUT /v2/orders/customer-orders/can cel	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		6.2.6 Querying the Amount of Unsubscription Orders	GET /v2/orders/customer-orders/ref und-orders	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid				
	Man agin g yearl y/mo	6.3.1 Querying Customer's Yearly/Monthl y Resources	POST /v2/orders/suscriptions/resourc es/query	10/1 (s)	API request throttling dimensions: Source IP address, API,				

Sce nar io	Sub- Scen ario	API	URL	Traf fic Quo ta	Quota Dimension
	nthly				and ParentUid
	resou rces	6.3.2 Renewing Subscription to Yearly/Monthl y Resources	POST /v2/orders/subscriptions/resour ces/renew	20/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		6.3.3 Unsubscribing from Yearly/Monthl y Resources	POST /v2/orders/subscriptions/resour ces/unsubscribe	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		6.3.4 Enabling Automatic Subscription Renewal for Yearly/Monthl y Resources	POST /v2/orders/subscriptions/resour ces/autorenew/{resource_id}	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		6.3.5 Disabling Automatic Subscription Renewal for Yearly/Monthl y Resources	DELETE /v2/orders/subscriptions/resour ces/autorenew/{resource_id}	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		6.3.6 Enabling/Canc eling the Change from Yearly/Monthl y to Pay-per-Use upon Expiration	POST /v2/orders/subscriptions/resour ces/to-on-demand	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		6.3.7 Setting a Deduction Date for Auto-Renewal of Yearly/Monthl y Resources and a Same Expiration Date for	POST /v2/orders/subscriptions/resour ces/renew/config	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid

Sce nar io	Sub- Scen ario	API	URL	Traf fic Quo ta	Quota Dimension
		Renewed Resources			
	Man agin g resou rce pack ages	6.4.1 Querying Resource Packages	POST /v3/payments/free-resources/q uery	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
	uges	6.4.2 Viewing Resource Package Usage	POST /v2/payments/free-resources/us ages/details/query	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		6.4.3 Querying Resource Package Usage Details	GET /v2/bills/customer-bills/free-re sources-usage-records	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
Ma nag ing Bill s	ag agin Bill Summary ng g Bill bills		GET /v2/bills/customer-bills/monthl y-sum	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		7.2 Viewing Resource Usage Details	POST /v2/bills/customer-bills/res-rec ords/query	30/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
		7.3 Viewing Resource Expenditures	GET /v2/bills/customer-bills/res-fee -records	30/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
Ma nag eme nt Cos	Man agem ent costs	8.1 Querying Cost Data	POST /v4/costs/cost-analysed-bills/q uery	10/1 (s)	API request throttling dimensions: Source IP address, API,

Sce nar io	Sub- Scen ario	API	URL	Traf fic Quo ta	Quota Dimension
ts					and ParentUid
Ma nag ing an Ent erpr ise	Man agin g enter prise proje cts	9.1.1 Enabling the Enterprise Project Management	POST /v2/enterprises/enterprise-proje cts/authority	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
	Man agin g enter prise acco unts	9.2.1 Querying Enterprise Member Accounts	GET /v2/enterprises/multi-accounts/ sub-customers	20/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid
Ma nag ing Inv oice s	Man agin g invoi ces	10.1.1 Querying the Invoice List	GET /v1.0/{domain_id}/payments/i ntl-invoices	10/1 (s)	API request throttling dimensions: Source IP address, API, and ParentUid

Troubleshooting for Request Throttling Failure

The following is an example of error returned by an API:

{"status_code":429,"request_id":"7e6c1******c610","error_code":"APIGW.0308","err or_message":"The throttling threshold has been reached: policy user over ratelimit,limit:10,time:1 second","encoded_authorization_message":""}

Troubleshooting

Huawei Cloud provides default traffic quotas for customer operations capability APIs. Users can increase the quota based on their service requirements. Users can monitor status code 429 and construct a retry mechanism. The retry mechanism should follow an exponential backoff plan to reduce the number of requests if necessary. The user can also establish some randomness in the backoff timesheets to avoid severe herd mentality.

Adjusting Quotas

If the traffic quota cannot meet your service requirements and concurrency scenarios, submit a Huawei Cloud service ticket with the service scenario description attached. After receiving the service ticket, the Huawei Cloud after-sales service team will adjust the quota based on your requirements.

4 Managing Products

- 4.1 Querying Product Information
- 4.2 Querying the Price of a Product

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

Parameter	Manda tory	Value Range	Description
X-Languag e	No	A maximu m of 8 character	Language. zh_CN: Chinese en_US: English

Parameter	Manda tory	Value Range	Description
		8	Default value: zh_CN

Table 4-2	Query pa	rameters
-----------	----------	----------

Parameter	Manda tory	Туре	Value Range	Description
offset	No	Integer	0 to 1000000	Offset, which starts from 0. The default value is 0 .
		000		If this parameter is not included in the request, is left empty, or is set to null , the value 0 is used. This parameter cannot be set to "".
				NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned.
				For example, if there are 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned.
				If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	[1-1000]	Number of records queried each time. The default value is 10 .
				If this parameter is not included in the request, is left empty, or is set to null , the value 10 is used. This parameter cannot be set to "".

Request

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: *MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ* X-Language: zh_CN

Response

Response Parameters

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

Table 4-3 ServiceType

Parameter	Туре	Value Range	Description
service_type _name	String	A maximu m of 200 character s	Cloud service type name.
service_type _code	String	A maximu m of 64 character s	Cloud service type code.
abbreviation	String	A maximu m of 200 character s	Abbreviation of the cloud service type.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
    "total_count": 1,
    "service_types": [
    {
        "service_types": [
        {
            "service_type_name": "Huawei Cloud WeLink",
            "service_type_code": "hws.service.type.workplace",
            "abbreviation": "WeLink"
        }
    ]
}
```

Returned Values

NOTE

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

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

4.1.2 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

Parameter	Manda tory	Value Range	Description
X-Languag e	No	A maximu m of 8 character s	Language. zh_CN: Chinese en_US: English Default value: zh_CN

 Table 4-4 Header parameter

Table 4-5 Query parameters

Parameter	Manda tory	Туре	Value Range	Description
offset	No	Integer	0 to 1000000	Offset, which starts from 0. The default value is 0 .
			000	If this parameter is not included in the request, is left empty, or is set to null , the value 0 is used. This parameter cannot be set to "".
				NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned.
				For example, if there are 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned.
				If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	[1-1000]	Number of records queried each time. The default value is 10 .
				If this parameter is not included in the request, is left empty, or is set to null , the value 10 is used. This parameter cannot be set to "".

Request

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

Response Parameters

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

Table 4-6 ResourceTypes

Parameter	Туре	Value Range	Description
resource_ty pe_code	String	A maximu m of 64 character s	Resource type code. For example, the resource type code of ECS is hws.resource.type.vm .
resource_ty pe_name	String	A maximu m of 200 character s	Resource type name.
resource_ty pe_desc	String	A maximu m of 200 character	Resource type description.

Parameter	Туре	Value Range	Description
		S	
service_type _code	String	A maximu m of 64 character s	Code of the service type which a resource belongs to. Example: hws.service.type.offline .

Example Response

Returned Values

D NOTE

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

HTTP Status Code	Error Code	Description
400	CBC.0100	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

Parameter	Manda tory	Value Description Range	
X-Languag e	No	A maximu m of 8 character s	Language. zh_CN: Chinese en_US: English Default value: zh_CN

Table 4-8 Request parameters

Parameter	Manda tory	Туре	Value Range	Description
service_typ e_code	Yes	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 . To obtain a specific service type, call the API in 4.1.1 Querying Cloud Service Types.
offset	No	Integer	0 to 1000000 0	Offset, which starts from 0. The default value is 0 . If this parameter is not included in the request, is left empty, or is set to null , the value 0 is used. This parameter cannot be set to "". NOTE This parameter is used for pagination. Retain

Parameter	Manda tory	Туре	Value Range	Description
				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 are 10 records that meet query conditions, when you set limit to 10 and offset to 1 , the second to the tenth records are returned.
				If there are 20 records that meet query conditions, when you set offset to 0 and limit to 10 for the first page and set offset to 10 and limit to 10 for the second page, then each page will respectively have 10 records.
limit	No	Integer	[1-100]	Number of records queried each time. The default value is 10 .
				If this parameter is not included in the request, the value 10 is used. This parameter cannot be set to "" or null and cannot be left empty.

Request

Request Parameters

None

Example Request

```
GET
```

```
https://bss-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

Response Parameters

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	Error description. This parameter is returned only when the query failed.

Parameter	Туре	Value Range	Description
		of 1000 characters	
total_count	Integer	-	Total number.
infos	List <servi ceResourc eInfo></servi 	A maximum 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_type _code	String	A maximum of 64 characters	Resource type code. Example: hws.resource.type.general.
product_owne r_service	String	A maximum of 64 characters	Code of the service where a resource belongs. Example: hws.service.type.offline .
name	String	A maximum of 1024 characters	Resource type. Example: general specifications.
description	String	A maximum of 1024 characters	Resource type description.

Example Response

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

```
Date: response time
{
   "total count": 5,
   "infos": [
   {
          "basic info": {
             "resource_type_code": "hws.resource.type.general",
             "product owner service": "hws.service.type.offline",
             "name": "general specifications",
             "description": "general specifications"
         }
      },
          "basic info": {
             "resource type code": "hws.resource.type.bandwidth",
             "product owner service": "hws.service.type.vpc",
             "name": "fixed bandwidth",
             "description": "fixed bandwidth"
      }
          "basic info": {
             "resource type code": "hws.resource.type.ip",
             "product_owner_service": "hws.service.type.vpc",
             "name": "EIP",
             "description": "EIP"
      },
          "basic info": {
             "resource_type_code": "hws.resource.type.vm.image",
             "product_owner_service": "hws.service.type.ec2",
             "name": "ECS image",
             "description": "ECS image"
          "basic info": {
             "resource_type_code": "hws.resource.type.vm",
             "product_owner_service": "hws.service.type.ec2",
             "name": "ECS",
             "description": "ECS"
1
```

Returned Values

D NOTE

• **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.

• 5*xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description	
400	CBC.0100	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

Parameter	Manda tory	Value Range	Description
X-Languag e	No	A maximu m of 8 character s	Language. zh_CN: Chinese en_US: English Default value: zh_CN

Parameter	Manda tory	Туре	Value Range	Description
resource_ty pe_code	No	String	A maximu m of 64 character	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

Parameter	Manda tory	Туре	Value Range	Description
			s	4.1.2 Querying Resource Types.
				If this parameter is not included or is left empty, it will not be used as a filter criterion. If this parameter is set to "" or null , it will be used as a filter criterion.
offset	No	Integer	0 to 1000000	Offset, which starts from 0. The default value is 0 .
			00	If this parameter is not included in the request, is left empty, or is set to null , the value 0 is used. This parameter cannot be set to "".
				NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned.
				For example, if there are 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 .
				If this parameter is not included in the request, is left empty, or is set to null , the value 10 is used. This parameter cannot be set to "".

Request

Request Parameters

None

Example Request

```
GET https://bss-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

Response Parameters

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.
total_count	Integer	-	Total number.
usage_types	List <usag eType></usag 	-	Usage type list. For details, see Table 4-13.

Table 4-13 UsageType

Parameter	Туре	Value Range	Description
code	String	A maximum of 64 characters	Usage type code, for example, reqNumber .
name	String	A maximum of 1024 characters	Usage type name, for example, the number of invoking times.
resource_type _code	String	A maximum of 64 characters	Resource type code. For example, the resource type code of VM is hws.resource.type.vm .
service_type_ 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 .
resource_type _name	String	A maximum of 200 characters	Resource type. For example, the resource type of ECS is Cloud Host .
service_type_ name	String	A maximum of 200	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .

Parameter	Туре	Value Range	Description
		characters	

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
"total count": 6048,
"usage types": [
{
"code": "flow",
         "name": "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"
}
1
}
```

Returned Values

D NOTE

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

HTTP Value	Error Code	Description
403	CBC.0151	Access denied.

HTTP Value	Error Code	Description
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

Parameter	Manda tory	Value Range	Description
X-Languag e	No	A maximu m of 8 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/bases/measurements HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
X-Language: zh_CN
```

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 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.
measure_un its	List <me asureUni tRest></me 	-	Measurement unit information. For details, see Table 4-15.

 Table 4-15 MeasureUnitRest

Parameter	Туре	Value Range	Description	
measure_id	Integer	-	Measurement unit ID. For example, 10 indicates GB.	
measure_na me	String	A maximu m of 128 character s	²⁸ Example: GB.	
abbreviation	String	A maximu m of 64 character s	Abbreviation of a measurement unit name. For example, the abbreviation of GB is G .	
measure_ty pe	Integer	-	 Measurement type. 1: Currency 2: Duration 3: Traffic 4: Quantity 6: length 7: Capacity 9: Number of lines 	

Parameter	Туре	Value Range	Description	
			• 10 : Period	
			• 11 : Frequency	
			• 12 : Count	
			• 15: Capacity x duration	
			• 16: Bandwidth	
			• 17: Capacity-duration	
			• 18: Query rate	
			• 19 : Bandwidth (1000)	
			• 20 : Performance test usage	
			• 21 : Area	
			• 22: Video	
			• 23: Throughput	
			• 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	
			• 103: Hong Kong dollar	
			• 104: tokens	

Example Response

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

		{	
			"measure_id": 10,
			"measure_name": "GB",
			"abbreviation": "G",
			"measure_type": 3
		}	
	-		
]		
1			

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 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

Fable 4-16	Request	parameters
------------	---------	------------

Parameter	Manda tory	Туре	Value Range	Description
measure_ty pe	No	Integer	1–21474 83647	Measurement type.1: Currency2: Duration

Parameter	Manda tory	Туре	Value Range	Description
				• 3 : Traffic
				• 4: Quantity
				• 6: length
				• 7: Capacity
				• 9: Number of lines
				• 10 : Period
				• 11: Frequency
				• 12 : Count
				• 15: Capacity x duration
				• 16: Bandwidth
				• 17: Capacity-duration
				• 18: Query rate
				• 19 : Bandwidth (1000)
				• 20 : Performance test usage
				• 21 : Area
				• 22: Video
				• 23 : Throughput
				• 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
				• 103: Hong Kong dollar
				• 104: tokens
				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 "".

Request

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

Response Parameters

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

Table 4-17 Conversion

Parameter	Туре	Value Range	Description	
measure_id	Integer	-	Measurement unit ID. For example, 10 indicates GB.	
ref_measure _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).	
measure_ty pe	Integer	1–21474 83647	Measurement type. • 1: Currency • 2: Duration • 3: Traffic • 4: Quantity • 6: length	

Parameter	Туре	Value Range	Description
			• 7: Capacity
			• 9 : Number of lines
			• 10 : Period
			• 11 : Frequency
			• 12 : Count
			• 15 : Capacity x duration
			• 16 : Bandwidth
			• 17: Capacity-duration
			• 18: Query rate
			• 19 : Bandwidth (1000)
			• 20 : Performance test usage
			• 21 : Area
			• 22: Video
			• 23: Throughput
			• 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
			• 103: Hong Kong dollar
			• 104: tokens

Example Response

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

"conversion_ratio": 1440,
"measure_type": 2
}
]
1

Returned Values

D NOTE

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

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

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.

▲ CAUTION

- Ensure that you provide the correct service type, region, resource type, and resource specification. Otherwise, an error may be reported.
- You can use the price calculator to determine product prices.
- You can also use the price calculator to get the value of the **product_infos** request parameter when you call the API for querying product prices. For more details, see 12.8.2 Price Inquiry Example of Pay-Per-Use Products (Using the Price Calculator).

Constraints

This API can be called 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 /v2/bills/ratings/on-demand-resources

Request

Request Parameters

Parameter	Mandat ory	Туре	Value Range	Description
project_id	Yes	String	A maximu m of 64 character s	 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_inf os	Yes	List <de mandPr oductInf o></de 	A maximu m of 100 values	Indicates the product information list. For details, see Table 4-18.
inquiry_pre cision	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	Mandat ory	Туре	Value Range	Description
-----------	---------------	------	----------------	-------------

Parameter	Mandat ory	Туре	Value Range	Description
id	Yes	String	A maximu m 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.
cloud_servic e_type	Yes	String	A maximu m of 400 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 4.1.1 Querying Cloud Service Types.
resource_ty pe	Yes	String	A maximu m of 400 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 4.1.2 Querying Resource Types.
				The relationship between ResourceType and CloudServiceType is as follows: A resource type represents a resource contained in the cloud service type, and the cloud service type is a combination of multiple resource types.
resource_sp ec	Yes	String	A maximu m of 400 character s	Resource specifications. For details, see related cloud service documentation.The following provides examples of services and resource specifications:ECS
				Add .win or .linux to the end of the ECS flavor ID based on the OS type, for example, s2.small.1.linux. Call the API for querying details about flavors and extended flavor information to obtain the flavor IDs.
				• Bandwidth
				 12_bgp: dynamic BGP bandwidth billed by traffic
				 12_sbgp: static BGP bandwidth billed by traffic
				 19_bgp: dynamic BGP bandwidth billed by bandwidth
				 19_sbgp: Static BGP bandwidth billed by bandwidth
				 19_share: Shared bandwidth billed by bandwidth
				• IP address:
				 5_bgp: dynamic BGP public IP

Parameter	Mandat ory	Туре	Value Range	Description
	5		0	address
				 5_sbgp: static BGP public IP address
				• EVS
				- 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
				 GPSSD2.throughput: General-purpose SSD V2 throughput
region	Yes	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.
usage_factor	Yes	String	A maximu m of 64 character s	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 4.1.4 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_value	Yes	BigDeci	-	Usage value.
		mal		For example, if you want to inquire a product price by hour, set usageValue to 1 and usageMeasureID to 4 (hour).
usage_meas ure_id	Yes	Integer	A maximu m of 4	Usage unit. You can call the API in 4.1.5 Querying Measurement Units to

Parameter	Mandat ory	Туре	Value Range	Description
			character	obtain the value.
			s	For example, if you want to inquire a product price by hour, set usageValue to 1 and usageMeasureID to 4 (hour).
subscription _num	Yes	Integer	[1-10000]	Number of subscriptions.
available_zo ne	No	String	A maximu m of 64 character s	Available zone ID. Available zone IDs are case-insensitive. If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
resource_siz e	No	Integer	[1-21478 3647]	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_measur e_id	No	Integer	A maximu m of 4 character s	 Resource capacity measurement ID. The options are: 15: Mbit/s (used when the bandwidth is subscribed) 17: GB (used when an EVS disk is subscribed to) 14: amount (times) This field should be filled together with resource_size or left blank. Linear products are those whose size must be specified during a subscription, such as hard disks and bandwidth. For example, you can select 10 GB or 20 GB during a disk subscription. For non-linear products, if this parameter is not included in the request parameters or is set to null, it cannot be used as a filter criterion.

Example Request

```
POST https://bss-intl.myhuaweicloud.com/v2/bills/ratings/on-demand-resources
HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
"project id": "06488a******832f55c016b0e337d7",
"product infos": [
   {
          "id": "1",
          "cloud_service_type": "hws.service.type.ec2",
          "resource_type": "hws.resource.type.vm",
          "resource spec": "c3.3xlarge.2.linux",
          "region": "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-la",
    "resource_size": 1,
    "size_measure_id": 15
    }
],
    "inquiry_precision": 1
}
```

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximum of 20 characters	Status 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.
amount	BigDecimal	-	Final price after discount
discount_amo unt	BigDecimal	-	Discount amount (difference between the list price and the final price).
official_websi te_amount	BigDecimal	-	List price of a pay-per-use product
measure_id	Integer	A maximum of 4 characters	Measurement unit ID. 1: USD
currency	String	A maximum of 20 characters	Currency. USD If the parameter is left blank, USD is used.
product_rating _results	List <deman dProductRat ingResult></deman 	-	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	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
		characters	
product_id	String	A maximum of 64 characters	Product ID.
amount	BigDecima 1	-	Final price after discount
discount_amo unt	BigDecima 1	-	Discount amount (difference between the list price and the final price).
official_websi te_amount	BigDecima 1	-	List price of a pay-per-use product
measure_id	Integer	A maximum of 4 characters	Measurement unit ID. 1: USD
discount_ratin g_results	List <dema ndDiscount RatingResu lt></dema 	-	Discount details, including the product promotion information and commercial or partner discount information. For details, see Table 4-20.
			NOTE If the user does not have the required permission, no information is returned. For details, see API Access Permission (Customer).

Table 4-20 DemandDiscountRatingResult

Parameter	Туре	Value Range	Description
discount_id	String	A maximum of 64 characters	Discount ID.
discount_type	Integer	A maximum of 4 characters	 Discount type. Commercial Discounts: 605: Contract commercial discount for transaction with Huawei Cloud. Partner Discounts: 606: Contract commercial discount for transaction with distributors. Discounts Set by Partner 607: Discounts set by partners

Parameter	Туре	Value Range	Description
amount	BigDecima 1	-	Discounted amount.
measure_id	Integer	A maximum of 4 characters	Measurement unit ID. 1: USD
discount_nam e	String	A maximum of 256 characters	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": []
},
{
    "id": "4",
    "product_id": "00301-290407706-0--1",
    "amount": 2.56,
    "discount_amount": 0.0,
    "official_website_amount": 2.56,
    "measure_id": 1,
    "discount_rating_results": []
}
]
```

Returned Values

D 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.99006006	Product not found.
400	CBC.99006050	Incorrect usage unit.
400	CBC.99006055	The queried amount exceeds the upper limit.
400	CBC.99006074	The billing item does not exist.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

4.2.2 Querying the Price of a Yearly/Monthly Product

Function

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

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

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

- Ensure that you provide the correct service type, region, resource type, region and resource specification. Otherwise, an error may be reported.
- You can use the price calculator to determine product prices.
- You can also use the price calculator to get the value of the **product_infos** request parameter when you call the API for querying product prices. For more details, see 12.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator).

Constraints

This API can be called 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 SDK code samples.

URI

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

Request

Request Parameters

Parameter	Mandat ory	Туре	Value Range	Description
project_id	Yes	String	A maximu m of 64 character s	 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_inf os	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	Mandat ory	Туре	Value Range	Description
id	Yes	String	A maximu	The ID is used to identify the mapping between the inquiry result and the

Parameter	Mandat ory	Туре	Value Range	Description
			m of 64 character s	request and must be unique in an inquiry.
cloud_servic e_type	Yes	String	A maximu m of 400 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 4.1.1 Querying Cloud Service Types.
resource_ty pe	Yes	String	A maximu m of 400 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 4.1.2 Querying Resource Types.
				The relationship between ResourceType and CloudServiceType is as follows: A resource type represents a resource contained in the cloud service type, and the cloud service type is a combination of multiple resource types.
resource_sp ec	Yes	String	A maximu m of 400 character s	Resource specifications. For details, see related cloud service documentation.The following provides examples of services and resource specifications:ECS
				Add .win or .linux to the end of the ECS flavor ID based on the OS type, for example, s2.small.1.linux. Call the API for querying details about flavors and extended flavor information to obtain the flavor IDs.
				• Bandwidth
				 12_bgp: dynamic BGP bandwidth billed by traffic
				 12_sbgp: static BGP bandwidth billed by traffic
				 19_bgp: dynamic BGP bandwidth billed by bandwidth
				 19_sbgp: Static BGP bandwidth billed by bandwidth
				 19_share: Shared bandwidth billed by bandwidth
				• IP address:
				 5_bgp: dynamic BGP public IP address
				- 5_sbgp: static BGP public IP

Parameter	Mandat ory	Туре	Value Range	Description
				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 GPSSD: General-purpose SSD SSD: Ultra-high I/O ESSD: Extreme SSD GPSSD2.storage: General-purpose SSD V2 storage
region	Yes	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.
period_type	Yes	Integer	[0-4]	 Period type of a yearly/monthly product order. 0: Day 2: Month 3: Year 4: Hour
period_num	Yes	Integer	[1-21478 3647]	Number of periods of a yearly/monthly product order.
subscription _num	Yes	Integer	[1-10000]	Number of subscriptions of a yearly/monthly product order.
available_zo ne	No	String	A maximu m of 64 character s	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.
resource_siz	No	Integer	[1-21478	Resource capacity. It can be the subscribed volume size or bandwidth

Parameter	Mandat ory	Туре	Value Range	Description
e			3647]	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_measur e_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-rat
e HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
    "project_id": "84c53ec51e794a4888fb0f5c0cfb2420",
    "product_infos": [
        {
            "id": "1",
            "cloud_service_type": "hws.service.type.ec2",
            "resource_type": "hws.resource.type.wm",
            "resource_type": "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

Response Parameters

Parameter Type Value Range	Description
-------------------------------	-------------

Parameter	Туре	Value Range	Description
error_code	String	A maximum of 20 characters	Status 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.
official_websi te_rating_resu lt	List <officia lWebsiteRat ingResult Object></officia 	-	The result for querying the list price of a yearly/monthly product. For details, see Table 4-22.
optional_disco unt_rating_res ults	List <option alDiscountR atingResult ></option 	-	Rating results by discount if optional discounts exist. Each optional discount has a rating result. For details, see Table 4-24. NOTE If the user does not have the required permission, no information is returned. For details, see API Access Permission (Customer).
currency	String	A maximum of 20 characters	Currency. USD If the parameter is left blank, USD is used.

 Table 4-22
 OfficialWebsiteRatingResult

Parameter	Туре	Value Range	Description
official_websi te_amount	BigDecima l	-	Price of a yearly/monthly product on the official website.
measure_id	Integer	A maximum of 4 characters	Measurement unit ID. 1: USD
product_rating _results	List <period ProductOff icialRating Result></period 	-	Price query result. For details, see Table 4-23.

Parameter	Туре	Value Range	Description
id	String	A maximum of 64 characters	ID, which comes from the ID in the request.
product_id	String	A maximum of 64 characters	Yearly/monthly product ID.
official_websit e_amount	BigDecima 1	-	Price of a yearly/monthly product on the official website.
measure_id	Integer	A maximum of 4 characters	Measurement unit ID. • 1: USD

Table 4-23 Price query result.

 Table 4-24 OptionalDiscountRatingResult

Parameter	Туре	Value Range	Description
discount_id	String	A maximum of 64 characters	Discount ID.
amount	BigDecima 1	-	Final price after the discount. Amount= official_website_amount - discountAmount
official_websit e_amount	BigDecima 1	-	Price of a yearly/monthly product on the official website.
discount_amo unt	BigDecima 1	-	Amount of an available discount, such as commercial discounts, partner discounts, promotion discounts, and coupons.
measure_id	Integer	A maximum of 4 characters	Measurement unit ID. 1: USD
discount_type	Integer	A maximum of 32 characters	 Discount type. Commercial Discounts: 605: Contract commercial discount for transaction with Huawei Cloud. Partner Discounts:

Parameter	Туре	Value Range	Description
			 606: Contract commercial discount for transaction with distributors. Discounts Set by Partner 607: Discounts set by partners
discount_nam e	String	A maximum of 256 characters	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_rating _results	List <period ProductRat ingResult></period 	-	Product price query result. For details, see Table 4-25.

 Table 4-25
 PeriodProductRatingResult

Parameter	Туре	Value Range	Description
id	String	A maximum of 64 characters	ID, which comes from the ID in the request.
product_id	String	A maximum of 64 characters	Yearly/monthly product ID.
amount	BigDecima 1	-	Final price after the discount. Amount= official_website_amount - discountAmount
official_websit e_amount	BigDecima 1	-	Price of a yearly/monthly product on the official website.
discount_amo	BigDecima	-	Amount of an available discount, such as

Parameter	Туре	Value Range	Description
unt	1		commercial discounts, partner discounts, promotion discounts, and coupons.
measure_id	Integer	A maximum of 4 characters	Measurement unit ID. 1: USD

```
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
             "id": "4",
             "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

D NOTE

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

HTTP Value	Error Code	Description
400	CBC.0100	Parameter error.
400	CBC.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.

D 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 6.3.1 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 6.3.1 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	Paramet er Type	Value Range	Description
resource_i	Yes	List <stri< td=""><td>[1-10]</td><td>Primary resource IDs</td></stri<>	[1-10]	Primary resource IDs
ds		ng>		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 6.3.1 Querying Customer's Yearly/Monthly Resources.
period_ty	Yes	Integer	[2 3]	Period type:
pe				• 2: Month
				• 3 : Year
period_nu	Yes	Integer	[1-11]	Number of periods:
m				• Month: 1 to 11
				• Year: 1 to 3
include_r elative_re	No	Boolean	-	Specifies whether to include associated resources for renewal price querying.
sources				• false: Not included.
				• true: Included.
				If this parameter is not included in the request or is set to "", the default value false is used.

Request Sample

```
POST
https://bss-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,
    "include_relative_resources": false
}
```

Response

Response Parameters

Parameter	Parameter Type	Value Range	Description
error_code	String	A maximum of 20 characters	Status code For details, see 0.
error_msg	String	A maximum of 1,000 characters	Error description
currency	String	A maximum of 20 characters	Currency USD If the parameter is left blank, USD is used.
renew_inquir y_results	List <renew InquiryResu ltInfo></renew 		Renew price inquiry result of the primary resources and their attached resources For details, see Table 4-26.
official_webs ite_rating_re sult	OfficialWeb siteRatingR esult Object		For list price of a primary resource and its attached resources, see Table 4-27.
optional_disc ount_rating_r esults	List <option alDiscountR atingResult></option 		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 4-28. NOTE If the user does not have the required permission, no information is returned. For details, see API Access Permission (Customer).
fail_resource _infos	List <failre sourceInfo></failre 		Resource information for a failed query. For details, see 0.

Parameter	Parameter Type	Description
resource_id	String	Resource ID.
		NOTE
		If the request contains the include_relative_resources field, the ID of the associated primary resource will be

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

Table 4-27 OfficialWebsiteRatingResult

Parameter	Parameter Type	Value Range	Description
official_websi te_amount	String	A maximum of 64 characters	List price Unit: USD

 Table 4-28 OptionalDiscountRatingResult

Parameter	Parameter Type	Value Range	Description
discount_id	String	A maximum of 64 characters	Discount ID.
amount	String	A maximum of 64 characters	Final price after the discount Unit: USD Amount= official_website_amount - discount_amount
official_websit e_amount	String	A maximum of 64 characters	List price Unit: USD
discount_amo unt	String	A maximum of 64 characters	Amount of an available discount, such as commercial discounts, partner discounts, promotion discounts, and coupons Unit: USD
discount_type	Integer	A maximum of 32 characters	 Discount type Commercial Discounts: 605: Contract commercial discount for transaction with Huawei Cloud. Partner Discounts: 606: Contract commercial discount for

Parameter	Parameter Type	Value Range	Description
			 transaction with distributors. Discounts Set by Partner 607: Discounts set by partners
discount_nam e	String	A maximum of 256 characters	Discount name
best_offer	Integer	-	 Optimal discount or not 0: No (default value) 1: Yes Optimal discount is a discount selected from the commercial discount and partner discount. The discount with the maximum discount amount is the optimal discount. If the discount amounts are the same, the system uses the commercial discount first. The promotional discount and coupon are not in the calculation of the optimal discount.

Resource information for a failed query

Parameter	Parameter Type	Description
error_code	String	Status code
		For details, see 0.
error_msg	String	Error description
resource_id	String	Resource ID.

Status code: 200

Response Sample

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
    "currency": "CNY",
    "renew_inquiry_results": [{
        "resource_id": "230221_169ee*******9d5b8af6a38f099abea",
        "amount": "800.0"
    }],
    "official_website_rating_result": {
        "official_website_rating_result": {
        "official_website_amount": "800.0",
```

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

Status Codes

D NOTE

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

HTTP Status Code	Error Code	Description
200	CBC.3005000 7	Renewal price inquiry is not applicable to non-primary resources.
200	CBC.3005000 8	The period type or number of periods for the resource does not exist.
200	CBC.3005000 9	The resources have expired and been deleted or do not exist.
200	CBC.3005001 0	This operation is not allowed because some resources included in your orders are to be paid.
200	CBC.3005001 1	Resources are being unsubscribed from or changed.
200	CBC.3005001	Renewal not supported.
400	CBC.0100	Incorrect parameter
400	CBC.9900600 6	The required product cannot be found.
400	CBC.9900602 4	Failed to query product information.
400	CBC.9900601 6	Failed to query coupon information.
400	CBC.9900601 7	Failed to query customer information.
400	CBC.9900605 0	Incorrect usage unit
400	CBC.9900605 5	The queried amount exceeds the upper limit.
400	CBC.9900606	Billing query failed

HTTP Status Code	Error Code	Description
	6	
400	CBC.9900607 3	Project not found.
400	CBC.3005001 2	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

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...ggg1BBIINPXsidG9rZ
```

Response Message

Response Parameters

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_balanc es	List <accountb alanceV2></accountb 	-	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.
currency	String	-	Currency. The options are as follows: USD: US dollar

Parameter	Туре	Value Range	Description
designated_am ount	Bigdecimal	-	Balance of earmarked funds.
credit_amount	Bigdecimal	-	Total credit limit. This field is available only for credit accounts.
measure_id	Integer	-	Measurement unit. • 1: Dollar

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

Returned Values

D 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
- 6.2 Managing Yearly/Monthly Orders
- 6.3 Managing Yearly/Monthly Resources
- 6.4 Managing Resource Packages

6.1 Managing Coupons

6.1.1 Querying Coupons

Function

Customers can query information about their coupons.

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

NOTE

- Currently, flexi-purchase coupons and discount coupons are not available for the international website.
- Information about cash coupons or discount coupons that have expired for more than one year is not returned.
- If the expiration time of a coupon is earlier than the current time, the coupon is invalid.

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

Parameter	Manda	Туре	Value Range	Description
	tory		Kange	
coupon_id	No	String	A maximum of 64 characters	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 maximum of 64 characters	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 maximum of 64 characters	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_typ e	No	Integer	[1-4]	 Coupon type. 1: Cash coupon 2: Discount coupon (reserved) 4: Flexi-purchase coupon (reserved) If this parameter is not included in the request parameters, is left empty, or is set to null, it cannot be used as a filter criterion. It cannot be set to "".
status	No	Integer	[1-5]	Customer coupon status. • 2: To be used • 3: Used • 4: Expired • 5: Withdrawn If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion.
active_start _time	No	String	A maximum of 64 characters	Activation start time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. It cannot be set to '''' or null .
active_end_	No	String	А	Activation end time.

Parameter	Manda tory	Туре	Value Range	Description
time			maximum of 64 characters	UTC time in "yyyy-MM-dd"T'HH:mm:ss"Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59. If this parameter is not included in the request parameters or is left empty, it cannot be used as a filter criterion. It cannot be set to "" or null .
offset	No	Integer	0 to maximum integer	Offset, which starts from 0. The default value is 0.NOTEThis 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 are 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 10 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 .
source_id	No	String	A maximum of 255 characters	Coupon source. If the coupon is sent by a partner, the parameter value is the partner ID. To query coupons issued by a partner, enter the partner ID. If this parameter is not included, is left empty, or is set to null , it cannot be used as a filter criterion. If it is set to "", it can be used as a filter criterion.

Request Message

Request Parameters

No.

Example Request

```
GET https://bss-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_coupons	List <iquery UserCoupon sResult></iquery 	-	Coupon records. For details, see Table 6-2.

Response Parameters

 Table 6-2 IQueryUserCouponsResult

Parameter	Туре	Description	
coupon_id	String	Coupon ID.	
coupon_code	String	Coupon code.	
status	Integer	Coupon status 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.	

Parameter	Туре	Description
		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,CS190 4011928GIBHC3;CS1904011928GIBHCB.
		Not all returned orders used the coupon.
promotion_plan_i d	String	Promotion plan ID.
plan_name	String	Promotion plan name.
plan_desc	String	Promotion plan 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 offline5: Rewarded based on events
use_limits	List <icouponus eLimitInfoV2></icouponus 	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.

Parameter	Туре	Description	
		• 2: Coupons can be used repeatedly.	
balance	Double	Coupon balance. Unit: USD	
lock_order_id	String	ID of the order for the coupon.	
coupon_usage	String	Coupon usage.	
is_frozen	String	Whether a coupon is frozen.0: No1: Yes	
currency	String	Currency. The options are as follows: USD	
extend_param1	String	Extended field.	
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_id	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_i d	String	Promotion plan ID.	

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.
serviceType	Cloud service type.	Only value1 is valid. To obtain a specific cloud service type, call the API in 4.1.1 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.
subscribeType	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.
firstOrderInSe rvice	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.
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 	Cash coupons, flexi-purchase coupons, and discount coupons are supported. Discount coupons support only the yearly/monthly

Table 6-4 limit_key requirements for ICouponUseLimitInfo

Key	Meaning	Description	Remarks
		 6: General purpose 7: One-off payment 8: Reserved instance 11: Savings plan 	mode.
simultaneous UseWithEmpo werDiscount	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 .
usageTimes	Whether coupons can be used for multiple times.	 The value is specified in value1. The value can be: 0: Used for unlimited times 1: Used for only once N: Used for <i>N</i> times. (For cash coupons of the old version, <i>N</i> is fixed at 1.) 	 When CouponType is set to 2 (discount coupons), this parameter can only be set to 1, and if this parameter is not specified or is set to a non-1 value, the parameter value is 1. When CouponType is set to 1 (cash coupons) or 4 (flexi-purchase coupons), if this parameter is not specified or is set to a value other than 0 or 1, the parameter value is 0.
isOnlyForStric tSelected	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.
isRebate	Whether	The value is specified in value1 . The	Flex-purchase

Key	Meaning	Description	Remarks
	coupons are counted in to the partner incentive rebates.	 value can be: 0: No 1: Yes This restriction applies only to flexi-purchase coupons. 	coupons are supported.
serviceTypeBl ackList	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 consumptio n 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/mont hly (one-year) orders.	The value can be:0: No1: Yes	Cash coupons and discount coupons are supported.
simultaneous UseWithProm otionProduct	Whether cash coupons can be used together with promotional products.	 The value is specified in value1. The value can be: 0: No 1: Yes 	Cash coupons and discount coupons are supported.
simultaneous UseWithProm otionDiscount	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.
simultaneous UseWithDisco untCoupon	Whether cash coupons can be used together with discount coupons.	 The value is specified in value1. The value can be: 0: No 1: Yes 	Cash coupons are supported.

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: length
Date: response time
{
"count": "1",
"user coupons": [
{
     "coupon id": "CP19092406014086E3",
    "coupon_code": "CP19092406014086E3",
    "status": "2",
     "customer id": "c9e731c4663646988ef4cdb3122837b6"
     "coupon_type": "1",
     "measure_id": "1",
     "face value": "100",
     "valid time": "2019-09-16T16:00:00Z",
     "expire_time": "2019-09-16T16:00:00Z",
     "order id": "CS1904011928GIBHC",
     "promotion plan id": "promotionPlanId5322584",
     "plan_name": "532 USDCoupon name",
     "plan_desc": "532 USDCoupon desc",
     "media_type": "1",
     "fetch method": "1",
     "use limits": [
      {
        "use limiti info id": "CP19092406014086E3",
        "limit key": "simultaneousUseWithDiscountCoupon",
        "value1": "1",
        "value2": "",
        "value unit": "",
        "limit type": "=",
        "promotion_plan_id": "promotionPlanId5322584"
    ],
     "active_time": "2019-09-16T16:00:00Z",
     "reserve time": "2019-09-16T16:00:00Z",
     "promotion id": "promotionPlanId5322584",
     "create time": "2019-09-16T16:00:00Z",
     "coupon_version": "2",
     "balance": "100",
     "lock order id": "CS1904011928GIBHC",
     "coupon_usage": "170719190603338056FEH60VIRWEP",
     "is frozen": "0",
     "currency": "USD",
     "extend_param1": "2019091702368200",
     "source id": "c9e731c4663646988ef4cdb3122837b6"
```

Returned Values

D NOTE

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

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

D 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 6.3.1 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

 $GET \ /v2 / orders / customer-orders$

Param eter	Manda tory	Туре	Maximu m Length/	Description
			Value Range	
order_i d	No	String	A maximum of 64 characters	Order ID. Order IDs are case insensitive. If this parameter is not included or is left empty, it will not be used as a filter criterion. If it is set to null , it can be used as a filter criterion. This parameter cannot be set to """. NOTE When special characters are used for query, perform the URL code conversion. For example, % should be converted to %25.
create_ time_b egin	No	String	A maximum of 20 characters	Start time of order creation. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59. The span between the order creation time and end time cannot be more than 1 year. If this parameter is not included or is left empty, it will not be used as a filter criterion. It cannot be set to "" or null .
create_ time_e nd	No	String	A maximum of 20 characters	End time of order creation. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59. The span between the order creation time and the end time cannot be more than 1 year. If this parameter is not included or is left empty, it will not be used as a filter criterion. It cannot be set to "" or null .
service _type_ code	No	String	A maximum of 64 characters	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 4.1.1 Querying Cloud Service Types to obtain a specific service type. If this parameter is not included or is left empty, it will not be used as a filter criterion. If this parameter is set to "" or null , it will be used as a filter criterion.
status	No	Integer	-	Order status. The value can be:

 Table 6-5 Request parameters

Param eter	Manda tory	Туре	Maximu m Length/ Value Range	Description
				 1: Pending approval 3: Processing 4: Canceled 5: Completed 6: Pending payment 9: To be confirmed If this parameter is not included, is left empty, or is set to null, it will not be used as a filter criterion. It cannot be set to "".
order_t ype	No	String	A maximum of 64 characters	 Order type. The value can be: 1: New purchase 2: Renewal 3: Change 4: Unsubscription 10: Yearly/monthly to pay-per-use 11: Pay-per-use to yearly/monthly 13: Trial 14: Commercial use 15: Price adjustment If this parameter is not included or is left empty, it will not be used as a filter criterion. It cannot be set to "" or null.
limit	No	Integer	1 to 100	Number of orders queried each time. The default value is 10 . If this parameter is not included, is left empty, or is set to null , the value 10 is used. This parameter cannot be set to "".
offset	No	Integer	0 to a maximum integer	Offset, which starts from 0. The default value is 0 . If this parameter is not included, is left empty, or is set to null , the value 0 is used. This parameter cannot be set to "". NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned. For example, if there are 10 records that meet query conditions, when you set limit to 10 and

Param eter	Manda tory	Туре	Maximu m Length/ Value Range	Description
				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 maximum of 36 characters	Sorting order of the orders. This parameter is case insensitive. You can sort the orders by creation time.
				If you set the value to createTime , the system sorts orders by creation time in ascending order. If you set the value to -createTime , the system sorts orders by creation time in descending order.
				If this parameter is not included, is left empty, or is set to "" or null , orders will be sorted by creation time in descending orders.
payme nt_time _begin	No	String	A maximum of 20 characters	Start time of order payment. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.
				The span between the order payment start time and end time cannot be more than 1 year.
				If this parameter is not included or is left empty, it will not be used as a filter criterion. It cannot be set to "" or null .
payme nt_time _end	No	String	A maximum of 20 characters	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.
		The span between the order payment start time and end time cannot be more than 1 year.		
				If this parameter is not included or is left empty, it will not be used as a filter criterion. It cannot be set to '''' or null .

Request

Request Parameters

None

Example Request

GET

```
https://bss-intl.myhuaweicloud.com/v2/orders/customer-orders?order_id=CS1905251035
OA1AF&customer_id=c9e731c4663646988ef4cdb3122837b6&create_time_begin=2020-05-06T08
:05:01Z&create_time_end=2020-05-07T08:05:01Z&service_type_code=hws.service.type.ob
s&status=5&order_type=1&limit=10&offset=0&order_by=-createTime&payment_time_begin=
2020-05-06T08:05:01Z&payment_time_end=2020-05-07T08:05:01Z HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

Response

Parameter	Туре	Maximum Length/Va lue 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.
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 merOrderV 2></custo 	-	Order details. For details, see Table 6-6.

Response Parameters

Table 6-6 CustomerOrderV2

Parameter	Туре	Maximu m Length	Description
order_id	String	A maximum of 64 characters	Order ID
customer_id	String	А	Customer account ID.

Parameter	Туре	Maximu m Length	Description
		maximum of 64 characters	
service_type _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_type _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_amo unt	Double	-	Order amount (list price). In the unsubscription order, this amount

Parameter	Туре	Maximu m Length	Description	
			equals the value of amount_after_discount .	
amount_after _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 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_tim e	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.	
currency	String	A maximum of 4 characters	Currency code.	
contract_id	String	A maximum of 64 characters	Contract ID.	
amount_info	_		Order details	
enterprise_pr ojects	V2 Object List <enterp riseProject></enterp 	-	For details, see Table 6-7. Enterprise project details of a customer order. For details, see Table 6-9. NOTE You can query enterprise project information for each order in batch unsubscription and renewal scenarios by order ID.	
sub_order_in fos	List <subcu stomerOrde rV2></subcu 	-	Details of orders in a combined order. For details, see Table 6-10. NOTE If the order being queried is a combined order, the information of the orders included in the combined order will be returned. If the order being queried is a common order, this field will be left empty.	

Parameter	Туре	Maximu m Length	Description
discounts	List <discou ntItemV2></discou 	-	Item For details, see Table 6-8.
flexipurchase _coupon_am ount	Double	-	Flexi-purchase coupon amount (reserved).
coupon_amo unt	Double	-	Cash coupon amount.
stored_card_ amount	Double	-	Stored-value card amount (reserved).
commission_ amount	Double	-	Handling fee (only for unsubscription orders).
consumed_a mount	Double	-	Consumptions (only for unsubscription orders).

Table 6-7 AmountInfoV2

Table 6-8 DiscountItemV2

Parameter	Туре	Ma xim um Len gth	Description
discount_typ e	String	A max imu m of 8 char acte rs	 Discount type. 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 directly signed offline contract 604: Discount specified in the authorized

Parameter	Туре	Ma xim um Len gth	Description
			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_am ount	Double	-	Discounted amount.

 Table 6-9 EnterpriseProject

Parameter	Туре	Maximu m Length	Description
id	String	A maximum of 256 characters	Enterprise project ID.
name	String	A maximum of 256 characters	Enterprise project name.

Table 6-10 SubCustomerOrderV2

Parameter	Туре	Maximum Length	Description
order_id	String	A maximum of 64 characters	Order ID.
customer_id	String	A maximum of 64 characters	Customer account ID.
service_type_code	String	A maximum of 64 characters	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.ob

Parameter	Туре	Maximum Length	Description
			S.
service_type_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

Parameter	Туре	Maximum Length	Description
			to pay-per-use 11: Pay-per-use to yearly/monthly 13: Trial 14: Commercial use 15: Price adjustment
official_amount	Double	-	Order amount (list price). In the unsubscription order, this amount equals the value of amount_after_disc ount .
amount_after_disco unt	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 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_time	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.

Parameter	Туре	Maximum Length	Description
currency	String	A maximum of 4 characters	Currency code.
contract_id	String	A maximum of 64 characters	Contract ID.
amount_info	AmountInfoV2 Object	-	Order deduction details.
			For details, see Table 6-7.
enterprise_projects	List <enterpriseproje ct></enterpriseproje 	-	Enterprise project details of a customer order.
			For details, see Table 6-9.
			NOTE You can query enterprise project information for each order in batch unsubscription and renewal scenarios by order ID.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
"total count": 1,
"order_infos": [
{
         "order_id": "CS2405161952CE7IU5QmodifyJobAndPartFailJob",
         "customer id": "0c7fd9bdfb80d4170fb1c0056128d420",
         "service_type_code": "hws.service.type.ec2",
         "service_type_name": "Elastic Cloud Server"
         "source type": 1,
         "status": 5,
         "order_type": 1,
          "amount_after_discount": 274.6,
          "official amount": 349.5,
         "measure id": 1,
         "create_time": "2024-05-16T11:52:10Z",
         "payment_time": "2024-05-16T12:18:35Z",
          "currency": "USD",
          "contract_id": null,
          "amount info": {
             "discounts": [
                {
```

```
"discount type": "700",
                    "discount amount": 69.9
                    "discount type": "301",
                    "discount amount": 5.0
             ],
             "flexipurchase coupon amount": 0.0,
             "coupon_amount": 5.0,
             "stored_card_amount": 0.0,
             "commission amount": null,
             "consumed amount": null
          },
          "enterprise projects": [
                 "id": "0",
                 "name": "default"
             }
         1,
         "sub_order_infos": []
}
```

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

6.2.2 Querying Order Details

Function

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

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

NOTE

If you want to query the resource information of a specified order, invoke the API described in 6.3.1 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 6-11 Path parameters

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

Parameter	Mandatory	Value Range	Description
offset	No	0 to a maximum integer	Offset, which starts from 0. The default value is 0 . If this parameter is not included in the request parameters, is set to "", or is set to null , the default value 0 is used. NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required.

Parameter	Mandatory	Value Range	Description
			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 are 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 6-13 Message header parameter

Parameter	Manda tory	Туре	Value Range	Description
X-Language	No	String	A maximum of 10 characters	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/CS19040119281
JMYC?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	CustomerO rderEntityV 2 Object	-	Order details. For details, see Table 6-14.
total_count	Integer	-	Order item ID array.
order_line_it ems	List <order LineItemEn tityV2></order 	-	ID of the primary order item mapping the order item. For details, see Table 6-15.

 Table 6-14 CustomerOrderEntityV2

Parameter	Туре	Maximum Length	Description
order_id	String	A maximum of 64 characters	Order ID.
customer_id	String	A maximum of 64 characters	Customer account ID.
service_type _code	String	-	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .
service_type _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

Parameter	Туре	Maximum Length	Description
status	Integer	-	Order status. The value can be: 1: Pending approval 2: Pending refund 3: Processing 4: Canceled 5: Completed 6: Pending payment 9: To be confirmed 10: To be shipped 11: To be received 12: Pending pick-up 13: Exchange in progress
order_type	Integer	-	Order type. The value can be: 1: New purchase 2: Renewal 3: Change 4: Unsubscription 10: Yearly/monthly to pay-per-use 11: Pay-per-use to yearly/monthly 13: Trial 14: Commercial use 15: Price adjustment
official_amo unt	Double	-	Order amount (list price). In the unsubscription order, this amount equals the value of amount_after_discount .
amount_after _discount	Double	-	Order amount after a discount (excluding the vouchers or cards). In the unsubscription order, the amount is the refund amount after the handling fee is deducted.
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_tim e	String	A maximum	Payment time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'"

Parameter	Туре	Maximum Length	Description
		of 20	format, such as 2019-05-06T08:05:01Z
		characters	The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.
amount_info	AmountInfo	-	Order deduction details.
	V2 Object		For details, see Table 6-17.
currency	String	A maximum of 4 characters	Currency code.
contract_id	String	A maximum of 64 characters	Contract ID.
user_name	String	А	Order creator name
		maximum of 64 characters	• 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.
pending_pay	String	А	Payment end time of an unpaid order.
ment_end_ti me	ment_end_ti me	maximum of 20 characters	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 $0-59$.
			NOTE
			A specific value is returned only when the order is in the pending payment state. For other order statuses, the value is null .
sub_order_in	List <subcu< td=""><td>-</td><td>Details of orders in a combined order.</td></subcu<>	-	Details of orders in a combined order.
fos	stomerOrder EntityV2>		For details, see Table 6-19.
			NOTE
			If the order being queried is a combined order, the information of the orders included in the combined order will be returned. If the order being queried is a common order, this field will be left empty.

Parameter	Туре	Value Range	Description
order_line_it em_id	String	A maximum of 64 characters	Order ID.
service_type _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_type _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_spec _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_tim e	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.
expire_time	String	A maximum of 20	Expiration time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z

Parameter	Туре	Value Range	Description
		characters	The range of <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> is 0-59.
subscription_ num	Integer	-	Number of subscriptions.
amount_after _discount	Double	-	Order amount after a discount (excluding the vouchers or cards). In the unsubscription order, the amount is the refund amount after the handling fee is deducted.
official_amo unt	Double	-	Order amount (list price). In the unsubscription order, this amount equals the value of amount_after_discount .
amount_info	AmountInfo V2 Object	-	Order deduction details. For details, see Table 6-17.
currency	String	A maximum of 4 characters	Currency code.
category_cod e	String	A maximum of 64 characters	Product catalog code.
product_own er_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 4.1.1 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 4.1.2 Querying Resource Types.
base_product _info	BaseProduc tInfo Object		 Product information in the order line before the change. For details, see Table 6-16. NOTE A specific value is returned only when the order_type is set to Change. For other order types, the value is null.
order_id	String	A maximum	Order ID.

Parameter	Туре	Value Range	Description
		of 64 characters	

Table 6-16 BaseProductInfo

Parameter	Туре	Maximum Length	Description
product_id	String	A maximum of 64 characters	Product ID.
product_spec _desc	String	A maximum of 512 characters	Product specification description.
category_cod e	String	A maximum of 64 characters	Product catalog code.
product_own er_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 4.1.1 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 4.1.2 Querying Resource Types.

Table 6-17 AmountInfoV2

Parameter	Туре	Value Range	Description
discounts	List <discou ntItemV2></discou 	-	Fee item. For details, see Table 6-18.
flexipurchase _coupon_am ount	Double	-	Flexi-purchase coupon amount (reserved).

Parameter	Туре	Value Range	Description
coupon_amo unt	Double	-	Cash coupon amount.
stored_card_ amount	Double	-	Stored-value card amount (reserved).
commission_ amount	Double	-	Handling fee (only for unsubscription orders).
consumed_a mount	Double	-	Consumption amount (only for unsubscription orders).

 Table 6-18 DiscountItemV2

Parameter	Туре	Ma xim um Len gth	Description
discount_typ e	String	A max imu m of 8 char acte rs	 Discount type. 200: Promotion product discount 301: 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 directly signed offline contract 604: Discount specified in the directly signed offline contract 605: Discount specified in the commercial contract 605: Discount specified in the commercial contract 606: Discount specified in the commercial contract 607: Partner authorized discount 609: Discount for order price adjusting

Parameter	Туре	Ma xim um Len gth	Description
			 610: Discount amount 700: Promotion discount 800: Top-up account discount
discount_am ount	Double	-	Discounted amount.

Table 6-19 SubCustomerOrderEntityV2

Parameter	Туре	Maximum Length	Description
order_id	String	A maximum of 64 characters	Order ID.
customer_id	String	A maximum of 64 characters	Customer account ID.
service_type_code	String	-	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.ob s .
service_type_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

Parameter	Туре	Maximum Length	Description
			4: Canceled5: 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_amount	Double	-	Order amount (list price). In the unsubscription order, this amount equals the value of amount_after_disc ount .
amount_after_disco unt	Double	-	Order amount after a discount (excluding the vouchers or cards).
			In the

Parameter	Туре	Maximum Length	Description
			unsubscription order, the amount is the refund amount after the handling fee is deducted.
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_time	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_info	AmountInfoV2 Object	-	Order deduction details. For details, see Table 6-17.
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

Parameter	Туре	Maximum Length	Description
			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.
pending_payment_e nd_time	String	A maximum of 20 characters	Payment end time of an unpaid order. 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 $0-59$.
			NOTE A specific value is returned only when the order is in the pending payment state. For other order statuses, the value is null .

Example Response

```
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",
      "pending_payment_end_time": "2024-11-14T15:59:59Z",
      "sub_order_infos": []
},
"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 IO|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,
         "base product info": null,
          "order id": 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 | 1 vCPU| 4 GB | Linu
          "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",
"	<pre>'category_code": "hws.resource.computing.ecs",</pre>
"	'product_owner_service": null,
"	'commercial_resource": null,
"	<pre>'base_product_info": {</pre>
	"product_id": "00301-238595-00",
	"product spec desc": "General computing s3.small.1 1 vCPU 1 GB
Linux",	
	"category code": "hws.resource.computing.ecs",
	"product owner service": "hws.service.type.ec2",
	"commercial resource": null
}	_
"	'order id": "S1812********RPB"
}	_
1	
}	
,	

Returned Values

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

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

6.2.3 Querying Available Discounts of an Order

Function

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

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 6-20 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 <discoun tInfoV3></discoun 	-	List of available discounts. For details, see Table 6-21.

Table 6-21 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_valu e	String	-	Discount percentage or reduction. Leave this parameter empty if the discount model is set to 1 .
discount_type	Integer	-	 Discount type. The options are as follows: 0: promotion discount 1: contract discount 2: commercial discount 3: discount granted by a partner 609: discount for adjusting an order price
orders	List <orderv 3></orderv 	-	List of the orders that can use discounts. For details, see Table 6-22.

Table 6-22 OrderV3

Parameter	Туре	Maximum Length	Description
order_id	String	-	ID of the order that can use discounts.

Parameter	Туре	Maximum Length	Description
order_line_ite	List <orderli< td=""><td>A maximum</td><td>List of the order items that can use the same discount. For details, see Table 6-23.</td></orderli<>	A maximum	List of the order items that can use the same discount. For details, see Table 6-23.
ms	neItemV3>	of 100 items	

Table 6-23 OrderLineItemV3

Parameter	Туре	Value Range	Description
order_line_ite m_ids	List <string></string>	A maximum of 1,000 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_mode	Integer	-	Available discount model of an order.
			• 0: discount
			• 1: buy-it-now price
			• 2: reduction for specific amount
discount_amou nt	Number	-	Discount amount of an order, that is, the deducted amount.
discount_ratio	Number	-	Discount ratio of an order.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
"discounts": [
{
         "discount id": "PDP2011260815047721TYT48G0BA02EI",
         "discount value": "0.9",
         "discount_type": 0,
         "orders": [
            {
               "order_id": "CS2011091132EMKL9",
                "order_line_items": [
                   {
                      "order line item ids": [
                         "CS2011091132EMKL9-000002"
                      ],
                      "discount mode": 0,
```

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.
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.

- This API supports both monthly settlement and balance payment. Monthly settlement is preferred.
- Balance payment includes cash account payment and credit account payment. If both accounts have balance, the cash account payment is preferred.
- Restrictions for using a discount and coupon at the same time:

- If the restriction attribute of a coupon contains field **simultaneousUseWithEmpowerDiscount** with a value of **0**, the discount and coupon cannot be used at the same time.
- If the restriction attribute of a coupon contains field **simultaneousUseWithContractDiscount** with a value of **0**, the discount and coupon cannot be used at the same time.
- If the restriction attribute of a coupon contains field **minConsumeDiscount** and the values of **discount_ratio** for all the order items are less than the value of **minConsumeDiscount**, the discount and coupon cannot be used at the same time.
- If the restriction attribute of a coupon contains field simultaneousUseWithPromotionDiscount with a value of **0**, the discount and coupon cannot be used at the same time.
- When this API is invoked by a unified accounting member, if their enterprise master account has coupons available for the orders, the coupons are automatically applied without the need to include coupon IDs in a request.
- If a unified accounting member calls this API for manual payment, an order will be generated. The enterprise master account can access Billing Center, find this order in **Orders**, and pay for the order.
- If a unified accounting member calls this API for auto payment, the order will be automatically paid by the enterprise master account. If the API fails to be called due to reasons such as insufficient balance in the master account, an order will be generated. The enterprise master account can then access Billing Center, find this order in **Orders**, and pay for the order again.

Constraints

This API can only 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

Parameter	Mand atory	Туре	Maxim um Length of Charact ers	Description
order_id	Yes	String	A maximu m of 64 characte rs	Order ID. The value is the same as the order_ids value in the response message of API described in 6.3.2 Renewing Subscription to Yearly/Monthly Resources.
use_coupon	Yes	String	[YES N O]	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.

Parameter	Mand atory	Туре	Maxim um Length of Charact ers	Description
				 YES: indicates that the coupons are used for payment. NO: indicates that the coupons are not used for payment.
use_discou nt	Yes	String	[YES N O]	Whether a discount is used for the order payment. If this parameter is set to YES , the discount_infos field is mandatory. If this parameter is set to NO , the value of discount_infos is ignored.
				• YES : indicates that the discount is used for payment.
				• NO : indicates that the discount is not used for payment.
coupon_inf	No	List <coup< td=""><td>A .</td><td>For details, see Table 6-24.</td></coup<>	A .	For details, see Table 6-24.
OS		onSimpleI nfo>	pleI maximu m of 3 IDs are supporte d.	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_in fos	No	List <disc ountSimpl eInfo></disc 	Only one discount ID is allowed.	For details, see Table 6-25. 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.

Paramete r	Manda tory	Туре	Maxim um Length of Charac ters	Description
id	Yes	String	A maximu m of 64 characte rs	Coupon ID.
type	Yes	Integer	[300-30 3]	 Coupon type. 300: Discount coupon (reserved) 301: Promotion coupon 302: Promotion flexi-purchase coupon (reserved) 303: Promotion stored-value card (reserved)

 Table 6-24 CouponSimpleInfo

Table 6-25 DiscountSimpleInfo

Paramete r	Manda tory	Туре	Maxim um Length of Charac ters	Description
id	Yes	String	A maximu m of 64 characte rs	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",
```

Response

Response Parameters

Status code: 204

Success is returned by default.

Status code: 400

Parameter	Туре	Maximu m Length of Characte rs	Description
error_code	String	A maximum of 10 characters	Error code. For details, see Returned Values.
error_msg	String	A maximum of 256 characters	Error description.
quota_infos	List <quotai nfo></quotai 	-	 List of the resources whose quota or capacity is insufficient. For details, see Table 6-26. 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

Parameter	Туре	Maximu m Length of Characte rs	Description
			an order again.
enterprise_p roject_auth_ result	List <enterpr iseProject></enterpr 	-	Information about the enterprise project whose fund is insufficient.
result			For details, see Table 6-27.
			This parameter is valid only when error_code is set to CBC.99003155 .

Table 6-26 QuotaInfo

Parameter	Туре	Description	
region	String	Cloud service region code, for example, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints.	
service_type _code	String	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .	
resource_typ e_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_spe c_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_type _name	String	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .	
resource_typ e_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 	

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

Table 6-27 EnterpriseProject

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

Example Response

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

Returned Values

- 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 Status Code	Error Code	Description
400	CBC.99000046	Insufficient budget.
400	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.99003143	The product in this order is no longer available.
400	CBC.99003147	Discounts and cash coupons cannot be both used.
400	CBC.99003155	The enterprise project's fund quota is insufficient, or the project is invalid.
400	CBC.99003156	Coupons applicable to KooGallery products cannot be used together with dedicated coupons.
400	CBC.99003162	The payment time must be earlier than the specified effective time.
400	CBC.99003198	Insufficient budget of the organization.
400	CBC.99005003	Insufficient balance.
400	CBC.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.

HTTP Status Code	Error Code	Description
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.
400	CBC.99008056	The maximum number of transactions allowed today has been reached.

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 only 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

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 character	Order ID. The value is the same as the value of order_id in the response of the API described in 6.2.1 Querying Orders.

Param eter	Manda tory	Туре	Value Range	Description
			S	

Example Request

```
PUT https://bss-intl.myhuaweicloud.com/v2/orders/customer-orders/cancel HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
    "order_id": "CS170926155954N07"
}
```

Response

Response Parameters

Para meter	Туре	Value Range	Description
error_ code	String	A maximum of 10 characters	Status code. For details, see Returned Values.
error_ msg	- 0		Error description.

Table 6-28 Response parameters

Example Response

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

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 Value	Error Code	Description
---------------	------------	-------------

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

6.2.6 Querying the Amount of Unsubscription Orders

Function

A customer can query the resource type and order of the refund amount of an unsubscription or specification downgrade order on the partner sales platform.

NOTE

- After the API described in 6.3.3 Unsubscribing from Yearly/Monthly Resources is called to generate an unsubscription order ID, this API can be called to query the resource type and order to which the amount of the unsubscription order belongs. For example, after you invoke the API in 6.3.3 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 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/refund-orders

Table 6-29 Request parameters

Paramete r	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_i
d=CS1904190917GIBHC HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

Response

Response Parameters

Parameter	Туре	Description	
error_code	String	Status code. For details, see Status Code.	
error_msg	String	Error description.	
total_count	Integer	Total queries.	
refund_info s	List <orderrefu ndInfoV2></orderrefu 	Resource list. For details, see Table 6-30.	

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. 	
measure_id	String	Fee unit. • 1: 1 Yuan/Dollar	
customer_id	String	Customer account ID.	
resource_typ e_code	String	Resource type code. For example, the VM resource type code of ECS is hws.resource.type.vm .	
service_type String _code		Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .	
resource_typ e_name	String	Resource type. For example, the resource type of ECS is Cloud Host .	

Parameter	Туре	Description
service_type _name	String	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
region_code	String	Cloud service region code, for example, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints.
base_order_i d	String	ID of the original order corresponding to the unsubscription amount, consumption amount, or unsubscription handling fee.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: length
Date: response time
{
   "total count": 1,
"refund infos": [
{
         "id": "ccefa7ff-***-***-99f5-bb25a2551217",
         "amount": -3,
         "measure_id": "1",
         "customer id": "075a5d******ffb75c20a82d228130",
         "resource type code": "hws.resource.type.volume",
         "service_type_code": "hws.service.type.ebs",
          "resource_type_name": "EVS",
          "service_type_name": "EVS",
         "region code": "ap-southeast-1",
          "base order id": "CS2006*****1F8CI"
}
```

Status Code

API Reference

NOTE

- 4xx: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- 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.99005026	The order is not a degrade or unsubscription order.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.

6.3 Managing Yearly/Monthly Resources6.3.1 Querying Customer's Yearly/Monthly Resources

Function

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

D NOTE

If you need to renew resources that already take effect after you successfully invoke this API, you can invoke the API described in 4.2.2 Querying the Price of a Yearly/Monthly Product to query the price for the yearly/monthly resources and then invoke the API described in 6.3.2 Renewing Subscription to Yearly/Monthly Resources to renew the subscription.

Constraints

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

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/query

Request

Request Parameters

Table 6-31 Request parameters

Para meter	Manda tory	Туре	Value Range	Description
resour ce_ids	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

Para meter	Manda tory	Туре	Value Range	Description
				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 maximu	Order ID. This parameter can be used for querying the resources in a specified order.
			m of 64 characte 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. 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.
only_ main_ resour ce	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.
status	No	list <inte< td=""><td>[0-10]</td><td>Resource status.</td></inte<>	[0-10]	Resource status.
_list		ger>		Queries resources in a specified status. If there are multiple statuses, separate them using commas (,).
				• 2: Provisioned
				• 3: Closed
				• 4: Frozen
				• 5 : Expired
				If this parameter is not included in the request parameters, is left empty, or is set to null , it cannot be used as a filter criterion. Resources in

Para meter	Manda tory	Туре	Value Range	Description
				all statuses are returned.
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 are 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 .
expire _time _begi n	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.
expire _time _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.
servic e_type _code	No	String	64	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs . You can call the 4.1.1 Querying Cloud Service Types API to query the type of a cloud service. If this parameter is not included or is set to null , it will not be used as a filter criterion. This parameter cannot be set to an empty string. There will be parameter verification.

Example Request

```
POST https://bss-intl.myhuaweicloud.com/v2/orders/suscriptions/resources/query
HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
"resource ids":[
"0A063A******BC8548E65D0089A905"
],
"order id":"CS19052510350A***",
"only_main_resource":1,
"status_list":[
2
],
"offset":0,
"limit":10,
"expire_time_begin":"2021-09-01T08:05:01Z",
"expire_time_end":"2021-09-03T08:05:01Z",
"service_type_code": "hws.service.type.obs"
}
```

Response

Response Parameters

Param eter	Туре	Description
error_c ode	String	Error code. For details, see Returned Values.
error_ msg	String	Error description.
data	List <orderinstance V2></orderinstance 	Resource list. For details, see Table 6-32.
total_c ount	Integer	Total number of records

Table 6-32 OrderInstanceV2

Para meter	Туре	Description
id	String	Internal ID of the resource to be provisioned. The ID generated after the resource is provisioned is resource_id .
resour ce_id	String	Resource ID.
resour ce_na me	String	Resource instance name.

Para meter	Туре	Description	
region _code	String	Cloud service region code, for example, ap-southeast-1. Obtain the value from the Region column in Regions and Endpoints.	
servic e_type _code	String	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .	
resour ce_typ e_cod e	String	Resource type code. For example, the VM resource type code of ECS is hws.resource.type.vm .	
resour ce_spe c_cod e	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_type _name	String	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .	
resour ce_typ e_nam e	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.	
parent _resou rce_id	String	Parent resource ID	
is_mai n_reso urce	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 	
effecti ve_ti me	String	Effective time of a resource. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z	
expire _time	String	Expiration time of a resource. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such	

Para meter	Туре	Description	
		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. 	
produ ct_spe c_desc	String	A maximum of 512 characters allowed. Product specification description.	
spec_s ize	BigDecimal	 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_s ize_m easure _id	Integer	Product size unit, which is available only for linear products. Call the API in 4.1.5 Querying Measurement Units to obtain the value.	
update _time	String	Time when the resource was updated. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, such as 2019-05-06T08:05:01Z NOTE In transaction scenarios, for example, provisioning, unsubscription and change, resources are updated, and the update time changes. I other non-transaction scenarios, such as starting and stopping a machine, the update time does not change.	
enterp rise_p roject	EnterpriseProject Object	Enterprise project details of a customer resource. For details, see Table 6-33.	

Table 6-33 EnterpriseProject

Parameter	Туре	Maximu m Length	Description
-----------	------	--------------------	-------------

Parameter	Туре	Maximu m Length	Description
id	String	A maximum of 256 characters	Enterprise project ID.
name	String	A maximum of 256 characters	Enterprise project name.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
"data": [
{
         "id": "01154-674800049-0",
         "resource id": "fb8bb160-a8eb-46a7-9a01-82479c4342a8",
         "resource_name": "bandwidth-48d0",
          "region_code": "ap-southeast-1",
          "service type code": "hws.service.type.vpc",
         "resource_type_code": "hws.resource.type.bandwidth",
         "resource type name": "fixed bandwidth",
         "service type name": "VPC",
          "resource spec code": "19 share",
          "project_id": "0bce3f009100d2852fd6c009e942d2ef",
          "product id": "OFFI771277187766575104",
          "parent resource id": "fb8bb160-a8eb-46a7-9a01-82479c4342a8",
          "is main resource": 1,
         "status": 3,
         "effective_time": "2024-10-10T07:45:56Z",
          "expire time": "2024-11-22T09:01:54Z",
          "expire policy": 0,
          "product_spec_desc": " shared bandwidth | 5.0 Mbps",
         "spec size": 5.0,
         "spec_size_measure_id": 15,
         "update time": "2024-11-22T09:01:55Z",
          "enterprise project": {
             "id": "0",
             "name": "default"
         }
}
],
"total count": 1
}
```

Returned Values

D NOTE

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

HTTP Value	Error Code	Description	
400	CBC.0100	Parameter error.	
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 6.3.1 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 6.3.1 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 12.2 Support for Discounts or Coupons.
- You can call the API in 6.3.7 Setting a Deduction Date for Auto-Renewal of Yearly/Monthly Resources and a Same Expiration Date for Renewed Resources to setting deduction date for auto-renewal of yearly/monthly resources and set a renewal date for these resources.

Constraints

This API can only 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

 $POST\ /v2/orders/subscriptions/resources/renew$

Request

Request Parameters

Parameter	Mandat ory	Туре	Description
resource_id	Yes	List <string< td=""><td>Definition:</td></string<>	Definition:
S		>	Resource IDs.
			Constraints:
			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 6.3.1 Querying Customer's Yearly/Monthly Resources.
			Range:
			1 to 10
			Default Value:
			N/A
period_type	Yes	Integer	Definition:
			Period type.
			Constraints:
			N/A
			Range:
			• 2: month
			• 3: year
			Default Value:
			N/A
period_num	Yes	Integer	Definition:
			Number of periods.
			Constraints:
			• Month: 1 to 11
			• Year: 1 to 3
			Range:
			[1-11]
			Default Value:
			N/A
is_auto_pay	No	Integer	Definition:
			Whether enable automatic payment. The rules for auto payment are consistent with those for auto

Parameter	Mandat ory	Туре	Description
			renewal. For details about the rules for auto payment, see Auto-Renewal Rules.
			Constraints:
			N/A
			Range:
			• 0: No
			• 1: Yes
			Default Value:
			If this parameter is not included or is set to null , the default value 0 is used, indicating not to enable the automatic payment.

Example Request

POST https://bss-intl.myhuaweicloud.com/v2/orders/subscriptions/resources/renew
HTTP/1.1

```
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
    "resource_ids": [
        "96308d5efd7841b9a4dac673d84d0e14"
    ],
    "period_type": 2,
    "period num": 1,
```

```
"is_auto_pay": 0
}
```

Response

Response Parameters

Status code: 200

Table 6-34 Response body parameters

Parameter	Туре	Description
order_ids	List <string></string>	Definition : List of order IDs generated when resource subscription is renewed.
fail_resource_ infos	List <failresour ceInfo></failresour 	Definition : 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 6-35. This parameter is reserved.

Parameter	Туре	Description
error_code	String	Definition:
		Error code.
		For details, see 0.
		This parameter is reserved.
error_msg	String	Definition:
		Error description.
		This parameter is reserved.
resource_id	String	Definition:
		Resource ID.
		This parameter is reserved.

 Table 6-35
 FailResourceInfo

Status code: 400

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

Example Response

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

```
"fail_resource_infos":[]
}
```

Returned Values

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

HTTP Value	Error Code	Description	
400	CBC.0100	Parameter error.	
400	CBC.3001003 6	Renewal is only supported for primary resources.	
400	CBC.3001006 9	The renewal period does not exist.	
400	CBC.3005000 6	Automatic order payment failed.	
400	CBC.9900009 2	Incorrect subscription period.	
400	CBC.9900310 0	This operation is not allowed because some resources are included in your orders to be paid.	
400	CBC.7281	Renewal, payment, or unsubscription not supported. Your account has been frozen.	
400	CBC.9900301 6	The resources have expired and been deleted or do not exist.	
400	CBC.9900314 4	You have orders in progress and cannot perform the current operation.	
400	CBC.9900315 4	The sum of the existing and renewal durations has exceeded the maximum allowed. Select another renewal duration.	
400	CBC.9900363 4	Resources in discount packages must be renewed as a whole and cannot be renewed together with other resources.	
403	CBC.0151	Access denied.	
500	CBC.0999	Other errors.	

6.3.3 Unsubscribing from Yearly/Monthly Resources

Function

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

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

D NOTE

- A yearly/monthly resource can be unsubscribed from only after it has been successfully paid and provisioned.
- If a primary resource has resources attached, the system cancels the subscription to both the primary resource and its attached ones after this API is invoked. You can invoke 6.3.1 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 6.3.1 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 only 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 /v2/orders/subscriptions/resources/unsubscribe

Request

Request Parameters

Parameter	Mandat ory	Туре	Description
resource_ids	Yes	List <string ></string 	Definition: Resource IDs. Constraints: 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

Parameter	Mandat ory	Туре	Description
			resource based on is_main_resource in the response of the API described in 6.3.1 Querying Customer's Yearly/Monthly Resources.
			Range:
			1 to 10
			Default Value:
			N/A
unsubscribe_t	Yes	Integer	Definition:
уре			Unsubscription type.
			Constraints:
			N/A
			Range:
			• 1: Unsubscribe from the resource and its renewal periods.
			• 2: Unsubscribe from only the resource renewal periods.
			Default Value:
			N/A
unsubscribe_r	No	Integer	Definition:
eason_type			Unsubscription reason category.
			Constraints:
			N/A
			Range:
			• 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
			Default Value:
			N/A
unsubscribe_r	No	String	Definition:
eason			Unsubscription reason, which is generally specified by the customer.
			Constraints:
			N/A
			Range:

Parameter	Mandat ory	Туре	Description
			A maximum of 512 characters
			Default Value:
			N/A

Example Request

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

Response

Param eter	Туре	Description
error_c ode	String	Definition: Status code. For details, see Returned Values.
error_ msg	String	Definition: Error description.
order_i ds	List <string></string>	Definition: Unsubscription order IDs.
fail_res ource_i nfos	List <failresourcei nfo></failresourcei 	Definition : 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 0. This parameter is reserved.

Table FailResourceInfo

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

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

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
   "order_ids": [
   "cS19040119281JMYC"
 ],
   "fail_resource_infos":[]
}
```

Returned Values

NOTE

- 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.3000005 3	Unsubscription not supported. The billing mode of the resource is Savings Plans.
400	CBC.3000006 7	Unsubscription not supported. This resource has been deleted or the subscription to this resource has not been synchronized to CBC.
400	CBC.9900301 2	The resource ID does not exist.

HTTP Value	Error Code	Description
400	CBC.9900310 0	This operation is not allowed because some resources are included in your orders to be paid.
400	CBC.9900312 8	The resource does not have renewed periods or the renewed periods have taken effect, and the renewal periods cannot be unsubscribed.
400	CBC.9900318 5	The associated resources of a cloud service cannot be operated independently.
400	CBC.9900364 3	For cloud services for which invoices have been issued, unsubscription is not supported.
400	CBC.9900364 7	Unsubscription not supported for this pay-per-use package.
400	CBC.9900364 9	Unsubscription not supported for cloud services in trial use.
400	CBC.9900365 0	Unsubscription not supported for this cloud service in KooGallery.
400	CBC.9900365 2	Unsubscription is not supported for DevCloud packages.
400	CBC.9900365 4	If there is a bandwidth add-on package, you cannot unsubscribe from the renewal period.
400	CBC.9900365 6	Operation not allowed. Your resource has been frozen.
400	CBC.9900606 6	An error occurred during the query of the fee information.
403	CBC.0151	Access denied.
400	CBC.9900365 1	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.

D 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 6.3.1 Querying Customer's Yearly/Monthly Resources to query the resource ID, resource expiration date, and deduction policy after the resource is expired.
- After you enable automatic subscription renewal, the fee will be deducted at 03:00 7 days before the product expiration date. Ensure that you have enough . 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 only 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 /v2/orders/subscriptions/resources/autorenew/{resource_id}

The following table describes the parameters.

ParameMandaValueDescriptiontertoryRange	
resource _idYesA maximu m of 64 characte rsResource ID. You can obtain the resource ID by described in 6.3.1 Querying Custor Resources.You can obtain the resource ID swill be when you configure primary resource the attached resource.The attached resource IDs will be when you configure primary resource the attached resource.If the shared bandwidth is used primary resource, and EIPs are resource.If the exclusive bandwidth is used primary resources, and the bar resource.If automatic renewal is enabled for resource, the primary resource with resource withIf automatic renewal is enabled for resource with	omer's Yearly/Monthly e configured together burce IDs. ary resource, and EVS is ed, the bandwidth is the re the attached resource. used, EIPs are the ndwidth is the attached or the secondary

Table 6-37 Path parameters

Request

Request Parameters

None

Example Request

```
POST
https://bss-intl.myhuaweicloud.com/v2/orders/subscriptions/resources/autorenew/ebl
cac79-773b-414b-8915-6c3eed8ddf24 HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

Response

Response Parameters

Parame ter	Туре	Description
error_co de	String	Status code. For details, see Returned Values.
error_m sg	String	Error description.

Example Response

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

Returned Values

D NOTE

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

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

6.3.5 Disabling Automatic Subscription Renewal for Yearly/Monthly Resources

Function

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

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

D NOTE

- The prerequisite is that you have invoked the API described in 6.3.4 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 6.3.2 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 6.3.1 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 only 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

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

The following table describes the parameters.

Para mete r	Manda tory	Value Range	Description
resou rce_i d	Yes	A maximu m of 64 characte rs	 Resource ID. You can obtain the resource ID by invoking the API described in 6.3.1 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

Para mete r	Manda tory	Value Range	Description
			 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/ebl
cac79-773b-414b-8915-6c3eed8ddf24 HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

Response

Response Parameters

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

Example Response

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

Returned Values

D NOTE

• **4***xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.

• **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

HTTP Value	Error Code	Description
400	CBC.0100	Parameter error.
400	CBC.9900301 2	The resource ID does not exist.
400	CBC.9900360 5	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 pay-per-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 Pay-per-Use to enable the change from yearly/monthly to pay-per-use upon expiration in Billing Center.

D NOTE

- 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 6.3.1 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 6.3.6 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 6.3.2 Renewing Subscription to Yearly/Monthly Resources.

REST API

This API can only 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 /v2/orders/subscriptions/resources/to-on-demand

The following table describes the parameters.

Request

Request Parameters

Parameter	Mand atory	Туре	Value Range	Description
operation	Yes	String	A maximu m of 64 characte rs	 Used to enable or cancel the change from yearly/monthly to pay-per-use. SET_UP: Enable CANCEL: Cancel
resource_id s	Yes	list <string ></string 	[1-100]	Resource ID. You can obtain the resource ID by invoking the API described in 6.3.1 Querying Customer's Yearly/Monthly Resources. A maximum of 100 IDs of only primary resources can be set. After this parameter is set, both the primary resource and its attached resources are changed to pay-per-use resources. This field is mandatory. You can refer to parameter is_main_resource in the response of the API described in 6.3.1 Querying Customer's Yearly/Monthly Resources to check whether the resource is primary.

Example Request

POST

Response

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximu m of 20 character s	Error code. For details, see Returned Values.
error_msg	String	A maximu m of 1,000 character s	Error description.
error_detail s	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 6-39.

Table 6-39 ErrorDetail

Parameter	Туре	Value Range	Description
id	String	A maximum of 128 characters	ID of a batch processing message.
error_code	String	A maximum of 20 characters	Error code. For details, see Returned Values.
error_msg	String	A maximum of 1,000 characters	Error description.

Example Response

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

Returned Values

D NOTE

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

6.3.7 Setting a Deduction Date for Auto-Renewal of Yearly/Monthly Resources and a Same Expiration Date for Renewed Resources

Function

This API can be used to set a deduction date for auto-renewal of yearly/monthly resources and a same expiration date for renewed resources.

D NOTE

• If you set a deduction fee date for auto-renewal, the system will deduct the fee at 03:00 (GMT+08:00). For details, see Deduction Date for Auto-Renewal.

• If you set a renewal date for a yearly/monthly subscription, the subscription will expire on the fixed date of a month. For details, see Renewal Date.

Constraints

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

Debugging

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

URI

POST /v2/orders/subscriptions/resources/renew/config

Request

Request Parameters

Parameter	Mand atory	Туре	Value Range	Description
config_name	Yes	String	-	 Attribute of resource renewal setting. DEDUCTION_DATE: setting a deduction date for auto-renewal EXPIRE_DATE: setting a renewal date
config_value	Yes	String	1 to 64	 Attribute value of resource renewal setting. When config_name is set to DEDUCTION_DATE, you can set the system to automatically deduct fees two to seven days before the resource expires. This parameter has the following values: 2: two days before expiration 3: three days before expiration 4: four days before expiration 5: five days before expiration 6: six days before expiration

	 7: seven days before expiration If config_name is set to EXPIRE_DATE, the value of config_value can be: 1: the first day of each
	EXPIRE_DATE, the value of config_value can be: - 1: the first day of each
	-
	month 2: the second day of
	each month3: the third day of
	each month4: the 4th day of each month
	 5: the 5th day of each month
	- 6 : the 6th day of each month
	- 7 : the 7th day of each month
	 8: the 8th day of each month
	- 9 : the 9th day of each month
	- 10 : the 10th day of each month
	- 11 : the 11th day of each month
	 12: the 12th day of each month
	- 13 : the 13th day of each month
	- 14 : the 14th day of each month
	- 15 : the 15th day of each month
	 16: the 16th day of each month 17: the 17th last f
	 17: the 17th day of each month 18: the 18th day of
	 18: the 18th day of each month 10: the 10th day of
	 - 19: the 19th day of each month - 20: the 20th day of

Parameter	Mand atory	Туре	Value Range	Description
				each month
				- 21 : the 21st day of each month
				 - 22: the 22nd day of each month
				 - 23: the 23rd day of each month
				- 24 : the 24th day of each month
				 - 25: the 25th day of each month
				- 26 : the 26th day of each month
				 27: the 27th day of each month
				- 28 : the 28th day of each month
				 1: the last day of each month

Example Request

POST

Response

Response parameters

Parameter	Туре	Description
error_code	String	Error code. For details, see Returned Values.
error_msg	String	Error description.

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"
}
```

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.

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 Resource 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 6-40 H	Header parameter
--------------	------------------

Parameter	Manda tory	Maximu m Length	Description
X-Languag e	No	A maximu m of 8 character s	Language. zh_CN: Chinese en_US: English Default value: zh_CN

Request

Request Parameters

Parameter	Manda tory	Туре	Maximu m Length/ Value Range	Description
region_cod e	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, 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 character s	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 character s	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.

Parameter	Manda tory	Туре	Maximu m Length/ Value Range	Description
product_na me	No	String	A maximu m of 256 character s	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 character s	Enterprise project ID. This parameter is mandatory if you want to query the resources of an enterprise project. If this parameter is not included in the request parameters, is set to "", or is set to null , the resources not included in the enterprise project are queried.
status	No	Integer	(0, 4)	 Status: 0: Not effective 1: In effect 2: Used up 3: Expired 4: Unsubscribed If this parameter is not included in the request parameters, is set to "", or is set to null, it cannot be used as a filter criterion.
offset	No	Integer	(0, 999999)	 Offset, starting from 0. The default value is 0. NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1, the second and subsequent data records are returned. For example, if there are 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 10 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 .

Parameter	Manda tory	Туре	Maximu m Length/ Value Range	Description
service_typ e_code_list	No	List <stri ng></stri 	[0-10]	The ID of the cloud service type. The value is case-insensitive.
				For example, the cloud service type code of OBS is hws.service.type.obs . You can call the 4.1.1 Querying Cloud Service Types API to query the type of a cloud service.
				If this parameter is not included in the request, is left empty, or is set to null , it cannot be used as a filter criterion, and records that meet other search criteria are returned.

Example Request

```
POST https://bss-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_name": "HUAWEI CLOUD WeLink",
   "enterprise project id": null,
   "status": 1,
   "offset": 0,
   "limit": 10,
    "service_type_code_list": [
       "hws.service.type.obs",
        "hws.service.type.vpc"
]
}
```

Response

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

Parameter	Туре	Value Range	Description
			only when the query failed.
free_resource_ packages	List <freere sourcePacka ge></freere 	-	Resource package list. For details, see Table 6-41.
total_count	Integer	-	Total number of records

Table 6-41 FreeResourcePackage

Parameter	Туре	Maxim um Length/ Value Range	Description
order_instance _id	String	A maximu m of 64 character s	Identifier of a subscribed resource package.
order_id	String	A maximu m of 64 character s	Order ID. If the value of source_type is 1 , this parameter is left empty. NOTE If there are renewal orders that have not taken effect, the ID of the order that has taken effect is returned.
product_id	String	A maximu m of 64 character s	Resource package ID.
product_name	String	A maximu m of 256 character s	Resource package name.
enterprise_pro ject_id	String	A maximu m of 64 character s	Enterprise project ID.
enterprise_pro ject_scope	Integer	(0, 1)	 Enterprise projects for which resource packages are used: 0: All enterprise projects 1: Specific enterprise projects

Parameter	Туре	Maxim um Length/ Value Range	Description
effective_time	String	A maximu m of 20 character s	Time when a resource package is purchased. The value is in UTC format.
expire_time	String	A maximu m of 20 character s	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 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 .
region_code	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.
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_	Integer	(1,2)	Use model. The options are as follows:

Parameter	Туре	Maxim um Length/ Value Range	Description
mode			 1: Resettable Indicates that the purchased pay-per-use resource package can be reset at a specified period. For example, if you purchase a 1-year 40 GB pay-per-use resource package with quota_reuse_mode set to 1 and quota_reuse_cycle to 4, then the resource package will be reset each month (you will get 40 GB resource each month) within the year. 2: Not resettable Indicates that the purchased resource
			package will not be reset. For example, if you purchase a 1-year 40 GB pay-per-use resource package with quota_reuse_mode set to 2 , the resource package will not be reset, and you will get 40 GB resource within the year.
free_resources	List <freere source></freere 	-	For details about resource items (ID-specific) in a resource package, see Table 6-42.

Table 6-42 FreeResource

Parameter	Туре	Maxim um Length/ Value Range	Description
free_resource_ id	String	A maximu m of 64 character s	Resource ID. A resource package contains multiple resources, and each resource has a usage type.
usage_type_na me	String	A maximu m of 1,024 character s	Usage type name.
amount	String	A maximu m of 32 character	Remaining resource quota of a package whose quota_reuse_mode is Resettable , that is, the remaining resource quota in the current reset

Parameter	Туре	Maxim um Length/ Value Range	Description
		S	period.
original_amou nt	String	A maximu m of 32 character s	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 4.1.5 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
```

}

]

Returned Values

🛄 NOTE

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

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

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 Resource Packages. Click the **Resource Packages** tab, and then the resource package name to view the resource usage.

Constraints

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

▲ CAUTION

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

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

Parameter	Mandato ry	Description
X-Language	No	Definition:
		Language.
		Constraints:
		N/A
		Range:
		• zh_CN : Chinese
		• en_US: English
		Default Value:
		en_US

 Table 6-43 Header parameter

Request

Request Parameters

Parameter	Mandato ry	Туре	Description
free_resource _ids	Yes	List <string ></string 	Definition : 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 6.4.1 Querying Resource Packages.
			Constraints:
			N/A
			Range:
			[1-100]
			Default Value:
			N/A

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: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
    "free_resource_ids": [
```

```
"d4463497-991b-439d-9ab6-23f9ed197fe9"
]
}
```

Response

Response Parameters

Parameter	Туре	Description
error_code	String	Definition : Error code. For details, see Returned Values . This parameter is returned only when the query failed.
error_msg	String	Definition : Error description. This parameter is returned only when the query failed.
free_resources	List <freeres ourceDetail></freeres 	Definition : Resource information (resource details) in a resource package. For details, see Table 6-44.

Table 6-44 FreeResourceDetail

Parameter	Туре	Description
free_resource_id	String	Definition:
		Resource ID. A resource package contains multiple resources, and a resource has a usage type.
		NOTE
		If there are renewed resources that have not taken effect, the ID of the resource that has taken effect is returned.
		Range:
		A maximum of 64 characters
free_resource_ty	String	Definition:
pe_name		Resource type name.
quota_reuse_cyc	Integer	Definition:
le		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
quota_reuse_cyc	Integer	Definition:
le_type		Reset period type. This field is valid only when

Parameter	Туре	Description
		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_nam	String	Definition:
e		Usage type name.
start_time	String	Definition:
		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.
		Range:
		N/A
end_time	String	Definition:
		End time. The value is in UTC format.
		• If quota_reuse_mode is set to 1 , the value is the end time of the reset period for the current time.
		• If quota_reuse_mode is set to 2 , the value is the time when the purchased instance becomes invalid.
amount	BigDecimal	Definition:
		Remaining resource quota of a package whose quota_reuse_mode is Resettable , that is, the remaining resource quota in the current reset period.
original_amount	BigDecimal	Definition:
		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	Definition:
		Measurement unit of the quota of a free resource package. Call the API in 4.1.5 Querying Measurement

Parameter	Туре	Description
		Units to obtain the value.

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
   "free_resources": [
   {
          "free resource id": "d4463497-991b-439d-9ab6-23f9ed197fe9"
          "free_resource_type_name": "test1",
          "quota_reuse_cycle": 4,
          "quota_reuse_cycle_type": 1,
          "usage type name": "Duration",
          "start time": "2021-04-30T03:30:56Z",
          "end time": "2021-05-31T15:59:59Z",
          "amount": 100,
          "original amount": 100,
          "measure id": 37
```

Returned Values

D NOTE

- 4*xx*: This class of HTTP status code is intended for situations in which the error seems to have been caused by the client, for example, the request contains bad syntax or incorrect parameters. You must ensure the request is correct.
- 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.

6.4.3 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 this 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

Parameter	Manda tory	Туре	Value Range	Description
free_resour ce_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 6.4.1 Querying Resource Packages. If this parameter is not included or is left empty, it will not be used as a filter criterion.
product_id	No	String	A maximum of 64 characters	Product ID, that is, resource package ID. If this parameter is not included or is left empty, it cannot be used as a filter criterion.
resource_ty pe_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 4.1.2 Querying Resource Types. If this parameter is not included or is left empty, it will not be used as a filter criterion.
deduct_time _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_time _end	Yes	String	A maximum of 10 characters	End time of resource deduction, which is in <i>YYYY-MM-DD</i> format (GMT+08:00). NOTE The gap between the start time and end time must be less than or equal to 90 days.

 Table 6-45 Request parameters

Parameter	Manda tory	Туре	Value Range	Description
offset	No	Integer	0 to a maximum integer	Offset, starting from 0 . The default value is 0 . NOTE This parameter is used for pagination. Retain its default value 0 if pagination is not required. offset indicates the offset relative to the first data record among all that meets the conditions configured. If you set offset to 1 , the second and subsequent data records are returned. For example, if there are 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-re
cords?free_resource_id=free_resource_id&product_id=product_id&resource_type_code=r
esource_type_code&deduct_time_begin=2021-10-01&deduct_time_end=2021-10-31&offset=0
&limit=10 HTTP/1.1
Content-Type: application/json
```

```
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

Response

Response Parameters

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

Parameter	Туре	Value Range	Description
error_msg	String	1000	Error description. This parameter is returned only when the query failed.
free_resource_ records	List <freere sourceRecor d></freere 	Maximu m number: 1000	Resource package usage details. For details, see Table 6-46.
total_count	Integer	-	Total number of records that meet the conditions.

Table 6-46 FreeResourceRecord

Parameter	Туре	Value Range	Description
deduct_time	String	A maximu m of 20 character s	Time when a resource is deducted. UTC time. The format is <i>yyyy-MM-dd</i> ' T ' <i>HH:mm:ss</i> ' Z ', for example, 2021-10-13T10:01:49Z.
free_resource_ id	String	A maximu m of 64 character s	Resource ID. A resource package contains multiple resources, and a resource has a usage type.
resource_id	String	A maximu m of 64 character s	Resource ID.
resource_type _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 .
resource_type _name	String	A maximu m of 200 character s	Resource type. For example, the resource type of ECS is Cloud Host .
resource_tag	String	A maximu m of 10,240 character	Resource tag.

Parameter	Туре	Value Range	Description
		S	
product_id	String	A maximu m of 64 character s	Product ID, that is, resource package ID.
product_name	String	A maximu m of 256 character s	Product name, that is, resource package name.
usage_type_co de	String	A maximu m of 64 character s	Usage type
available_amo unt	String	A maximu m of 64 character s	Available resources before deduction
remaining_am ount	String	A maximu m of 64 character s	Available resources after deduction.
used_amount	String	A maximu m of 64 character s.	Deducted resource amount.
measure_id	Integer	-	Measurement unit of the quota of a free resource package. Call the API in 4.1.5 Querying Measurement Units to obtain the value.
effective_time	String	A maximu m of 20 character s	Start time of using a resource (UTC time).
expire_time	String	A maximu m of 20 character s	End time of resource usage (UTC time).

HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
"free_resource_records": [
{
"deduct_time": "2021-10-19T08:04:25Z",
"free_resource_id": "43248428-8409-47cd-b115-6a5872e2200b",
"resource_id": "resourceInstanceId_north1_obs_10120001112",
"resource_type_code": "",
"resource_tag": "",
"product_id": "90301-247012-00",
"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

D 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.

7 Managing Bills

- 7.1 Querying Bill Summary
- 7.2 Viewing Resource Usage Details
- 7.3 Viewing Resource Expenditures

7.1 Querying Bill Summary

Function

This API can be used by customers to query their expenditure summaries on the self-built platform. The expenditure data is summarized by month.

For details about how to log in to the Billing Center to query bill summary, see **Viewing Summary Data** in **Bill Summary**.

NOTE

- The bills displayed for an enterprise master account include the expenditure data of its member accounts.
- You can query data from the past three years.
- An enterprise master account needs required authorization from independent accounting members to view their expenditure information. For details about how to request such authorization, see Changing Member Account Permissions.

Constraints

This API can only 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/bills/customer-bills/monthly-sum

The following table describes the parameters.

Parameter	Manda tory	Туре	Maximum Length/Val ue Range	Description
bill_cycle	Yes	String	A maximum of 8 characters	Billing cycle of the expenditure summary, which is in <i>YYY-MM</i> format (GMT+08:00).
service_type_c ode	No	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 4.1.1 Querying Cloud Service Types. If this parameter is not included or is left empty, it cannot be used as a filter criterion.
enterprise_proj ect_id	No	String	A maximum of 64 characters	 Enterprise project ID. 0: ID of a default project -1: The service does not support enterprise project management. For details about how to obtain an enterprise project ID, see How Do I Obtain an Enterprise Project ID? If this parameter is not included or is left empty, it cannot be used as a filter criterion. If this parameter is set to null, it can be used as a filter criterion. This parameter cannot be set to "".
method	No	String	A maximum of 64 characters	 Query method. oneself: Query the expenditure data of the enterprise master account itself. sub_customer: Query the expenditure data of enterprise member accounts associated with the enterprise master account. all: Query the expenditure data of both the enterprise master account and its

 Table 7-1 Parameters

Parameter	Manda tory	Туре	Maximum Length/Val ue Range	Description
				associated member accounts. 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 there are no member accounts associated, the expenditure data of the enterprise master account itself is queried. NOTE An enterprise master account needs required authorization from independent accounting members to view their expenditure information. For details about how to request such authorization, see Changing Member Account Permissions.
sub_customer_ id	No	String	A maximum of 64 characters	 ID of an enterprise member account. 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 to a maximum 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 are 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,

Parameter	Manda tory	Туре	Maximum Length/Val ue Range	Description
				then each page will respectively have 10 records.
limit	No	Integer	1-1000	Number of queried records each time. The default value is 10 .

Request Message

Request Parameters

None

Example Request

GET

```
https://bss-intl.myhuaweicloud.com/v2/bills/customer-bills/monthly-sum?bill_cycle=
2020-07&method=sub_customer&sub_customer_id=05b5fef62300d2ad0f98c00befba72c0&offse
t=0&limit=10 HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

Response Message

Response parameters

Parameter	Туре	Maximum Length/Val ue Range	Description
error_code	String	A maximum of 20 characters	Error code. For details, see Status Codes. 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.
total_count	Integer	-	Number of the total records. The value must be greater than or equal to 0 .
bill_sums	List <billsum RecordInfo></billsum 	-	Bill information. For details, see Table 7-2.
consume_amo unt	Bigdecimal	-	Total amount (including unsubscriptions).
debt_amount	Bigdecimal	-	Arrears in total.
coupon_amou nt	Bigdecimal	-	Cash coupon amount.

Parameter	Туре	Maximum Length/Val ue Range	Description
flexipurchase_ coupon_amou nt	Bigdecimal	-	Flexi-purchase coupon amount. This parameter is reserved.
stored_value_ card_amount	Bigdecimal	-	Stored-value card amount. This parameter is reserved.
cash_amount	Bigdecimal	-	Balance in the cash account.
credit_amount	Bigdecimal	-	Balance in the credit account.
writeoff_amo unt	Bigdecimal	-	Write-off amount.
measure_id	Integer	-	Unit. • 1: Yuan/Dollar
currency	String	A maximum of 4 characters	Currency. USD

Table 7-2 BillSumRecordInfo

Parameter	Туре	Maximum Length/Val ue Range	Description
bill_cycle	String	A maximum of 8 characters	Billing cycle of the expenditure summary, which is in <i>YYYY-MM</i> format (GMT+08:00).
bill_type	Integer	-	 Bill type. 1: expenditure 2: refund 3: adjustment
customer_id	String	A maximum of 64 characters	 Account ID of the customer who has expenditure records. If a common account or enterprise member account is used to query expenditure records, only the expenditure records of the customer itself can be queried, and the ID of the customer itself is displayed here. If an enterprise master account is used to query expenditure records, the expenditure records of its own and its member accounts can be queried. The ID of a master or member account that

Parameter	Туре	Maximum Length/Val ue Range	Description
			has expenditures will be displayed. The ID of the master account will be displayed for the expenditure records of the master account. The ID of a member account will be displayed for the expenditure records of the member account.
resource_type _code	String	A maximum of 64 characters	Resource type code. For example, the resource type code of ECS is hws.resource.type.vm .
service_type_ 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 .
resource_type _name	String	A maximum of 200 characters	Resource type. For example, the resource type of ECS is Cloud Host .
service_type_ name	String	A maximum of 200 characters	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
charging_mod e	Integer	-	 Billing mode. The options are as follows: 1: yearly/monthly 3: pay-per-use 10: reserved instances 11: savings plan
official_amou nt	Bigdecimal	-	List price.
official_disco unt_amount	Bigdecimal	-	Discounted amount.
truncated_am ount	Bigdecimal	-	Truncated amount.
consume_amo unt	Bigdecimal	-	Amount. Amount = List price – Discounted amount – Truncated amount
coupon_amou nt	Bigdecimal	-	Cash coupon amount.
flexipurchase_ coupon_amou nt	Bigdecimal	-	Flexi-purchase coupon amount. This parameter is reserved.
stored_value_ card_amount	Bigdecimal	-	Stored-value card amount. This parameter is reserved.

Parameter	Туре	Maximum Length/Val ue Range	Description
debt_amount	Bigdecimal	-	Arrears. Amount that a customer owes when the customer's account balance is insufficient for fee deduction.
writeoff_amo unt	Bigdecimal	-	Write-off amount.
cash_amount	Bigdecimal	-	Balance in the cash account.
credit_amount	Bigdecimal	-	Balance in the credit account.
measure_id	Integer	-	Unit. • 1: Yuan/Dollar

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
"total count": 2,
"bill_sums": [
   {
         "bill cycle": "2020-07",
         "bill_type": 1,
         "customer_id": "05b5fef62300d2ad0f98c00befba72c0",
         "resource type code": "hws.resource.type.bandwidth",
         "service type code": "hws.service.type.vpc",
         "charging mode": 3,
         "official amount": 7.0,
         "official discount amount": 0.0,
         "truncated amount": 2.363856,
         "consume_amount": 7.0,
         "coupon_amount": 0.0,
         "flexipurchase coupon amount": 0.0,
         "stored_value_card_amount": 0.0,
         "debt_amount": 0.0,
         "writeoff amount": 0.0,
         "cash amount": 0.0,
         "credit_amount": 7.0,
         "measure id": 1
      },
         "bill_cycle": "2020-07",
         "bill_type": 1,
         "customer id": "05b5fef62300d2ad0f98c00befba72c0",
         "resource_type_code": "hws.resource.type.kms",
         "service_type_code": "hws.service.type.kms",
         "resource type name": "Cloud Host",
```

```
"service type name": "Elastic Cloud Server"
          "charging mode": 3,
          "official amount": 3524.424,
          "official discount amount": 0.0,
          "truncated amount": 1244.424,
         "consume amount": 2280.0,
          "coupon_amount": 0.0,
          "flexipurchase coupon amount": 0.0,
          "stored_value_card_amount": 0.0,
          "debt_amount": 0.0,
          "writeoff_amount": 0.0,
          "cash amount": 0.0,
          "credit amount": 2280.0,
          "measure id": 1
],
   "consume amount": 16964.0,
   "debt amount": 0.0,
   "coupon amount": 464.0,
   "flexipurchase coupon amount": 0.0,
"stored_value_card_amount": 0.0,
"cash_amount": 1306.0,
"credit amount": 15194.0,
   "writeoff amount": 0.0,
   "measure id": 1,
   "currency": "USD"
```

Status Codes

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

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.

D NOTE

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

Constraints

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

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 7-3 Header parameters

Paramet er	Man dator y	Maximum Length	Description
X-Langua	No	10	Language.
ge			• zh_CN : Chinese
			• en_US: English
			The default value is en_US.

Request Message

Request Parameters

Parameter	Manda tory	Туре	Maximu m Length	Description
cycle	Yes	String	8	Billing cycle of the queried resource usage details, which is in YYYY-MM format (GMT+08:00). Example: 2019-01

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 4.1.1 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.
resource_type	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 4.1.2 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_id	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.
bill_type	No	Integer	-	Bill type: • 1: expenditure-purchase

Parameter	Manda tory	Туре	Maximu m Length	Description
				• 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.
enterprise_proj	No	String	64	Enterprise project ID.
ect_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_r ecord	No	Boolean	-	Whether to return records for which the amount due is 0.
				• true: Yes

Parameter	Manda tory	Туре	Maximu m Length	Description
				• false: No
				If this parameter is not included in the request parameters, is set to "", or is set to null , it cannot be used as a filter criterion.
method	No	String	64	Query method.
				• oneself : Query the resource usage details of an enterprise itself.
				• sub_customer : Query the resource usage details of enterprise's sub-customers.
				• all : Query the resource usage details of an enterprise and its sub-customers.
				If this parameter is not included in the request parameters, is set to "", or is set to null , the default value is all . If this parameter is set to all and an enterprise has no customers, the enterprise queries its own resource usage details.
sub_customer_ 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,
offset	No	Integer	0 to a	this parameter must be specified. Offset, which starts from 0. The
			maximum	default value is 0 .
			integer	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 are 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.

7 Managing Bills

Parameter	Manda tory	Туре	Maximu m Length	Description	
limit	No	Integer	1-1000	Page limit. The default value is 10 .	
statistic_type	No	Integer	1–3	 Statistics type. The default value is 1: By billing cycle 2: By day 3: By details 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 "". 	
query_type	No	String	0–9	 Type of information to be queried. The default value is BILLCYCLE. BILLCYCLE: By billing cycle. DAILY: By day The information type, DAILY, is returned only when the statistic_type is set to 2 or 3. 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_begi n	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 value must be consistent 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	

Parameter	Manda tory	Туре	Maximu m Length	Description
				 query_type is not set to DAILY. If query_type is set to DAILY, this parameter cannot be left empty and the value must be consistent with the billing cycle.
payer_account _id	No	String	1–64	 The account ID of the payer. If this parameter is not included or is set to null, it will not be used as a filter criterion. It cannot be set to "". NOTE Independent accounting members of an enterprise and other common customers can only query their own expenditures. For an enterprise master, if this parameter is not included, expenditures of the master, their unified accounting members, and their independent account members are returned; if this parameter is set to the ID of the master, expenditures of the master and their unified accounting members are returned; and if this parameter is set to the ID of an independent accounting member of an enterprise, if this parameter is set to the ID of an independent accounting member are returned. For a unified accounting member of an enterprise, if this parameter is set to the ID of the member, expenditures of the member are returned. For a unified accounting member of an enterprise, if this parameter is set to the ID of the member, expenditures of the member generated before they were associated with their enterprise master are returned; if this parameter is set to the iD of the member generated before they were associated with their enterprise master are returned; if this parameter is set to the iD of an independent accounting member of an enterprise master are returned; if this parameter is set to the iD of the member generated before they were associated with their enterprise master are returned; if this parameter is set to the ir enterprise master are returned; if this parameter is set to the ir enterprise master are returned; and if this parameter is not included, all expenditures are returned.

Example Request

```
"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_record s	List <monthly BillRes></monthly 	-	Resource records. For details, see Table 7-4.	
total_count	Integer	-	Number of result sets. This parameter is returned only when the query is successful.	
currency	String	3	Currency. USD	

Table 7-4 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 deduction
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.

Parameter	Туре	Maximum Length	Description	
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	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_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 .	
res_instance_id	String	256	Resource instance ID.	
resource_name	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_i d	String	-	Root resource ID	
parent_resource _id	String	-	Parent resource ID	
resource_tag	String	8,192	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_proje ct_id	String	-	 Enterprise project ID. 0: ID of a default project null: The service does not support enterprise project management. 	
enterprise_proje ct_name	String	-	Enterprise project name.	
charge_mode	Integer	-	Billing mode. The options are as follows:	

Parameter	Туре	Maximum Length	Description	
			• 1: Yearly/monthly	
			• 3: Pay-per-use	
			• 10: Reserved instances	
			• 11: savings plan	
consume_amou nt	BigDecimal	-	Consumption amount of a cloud service, including the amount of cash coupons and that of flexi-purchase coupons, accurate to eight decimal places. NOTE The value of consume_amount is equal to the sum of the values of cash_amount, credit_amount, coupon_amount, flexipurchase_coupon_amount, stored_card_amount, bonus_amount, debt_amount, and adjustment_amount.	
cash_amount	BigDecimal	-	Amount paid in cash.	
credit_amount	BigDecimal	-	Amount paid using the credit.	
coupon_amount	BigDecimal	-	Amount paid using the cash coupon.	
flexipurchase_c oupon_amount	BigDecimal	-	Amount paid using the flexi-purchase coupon.	
stored_card_am ount	BigDecimal	-	Amount paid using the values-stored card.	
bonus_amount	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_amo unt	BigDecimal	-	Adjustment amount.	
official_amount	BigDecimal	-	Standard price.	
discount_amoun t	BigDecimal	-	Discount amount (based on the standard price).	
measure_id	Integer	-	Unit. • 1: USD	
period_type	Integer	-	Period type. The value can be:	

Parameter	Туре	Maximum Length	Description
		_	• 19: Year
			• 20: Month
			• 24: Day
			• 25: Hour
			• 5: One-off
trade_id	String	-	Order ID or transaction ID.
			 If the value of bill_type is 1, 2, 3, 4, 103, or 8, this field indicates the order ID.
			• In other scenarios, it indicates the transaction ID (this parameter represents bills when fees are deducted at the end of a month. Otherwise, this parameter represents receivables.)
id	String	256	Unique ID.
			This parameter is reserved.
product_spec_d esc	String	-	Product specification description.
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 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.
pre_order_id	String	64	Original order ID
az_code_infos	List <azcodei nfo></azcodei 	-	AZ information list For details, see Table 7-5.
payer_account_i d	String	64	The account ID of the payer. NOTE

Parameter	Туре	Maximum Length	Description
			 If the current account is an individual account, an account of an independent accounting member, or an enterprise master account, this parameter needs to be set to the ID of the current account. For a unified accounting member of an enterprise, this parameter can be set to the ID of the unified accounting member or the ID of their enterprise.
effective_time	String	32	enterprise master. Start time of using the resource corresponding to the fee. This field is valid when
			<pre>statistic_type is set to 3. This field is reserved when statistic_type is set to 1 or 2.</pre>
expire_time	String	32	End time of using the resource corresponding to the fee.
			This field is valid when statistic_type is set to 3 . This field is reserved when statistic_type is set to 1 or 2 .
consume_time	String	32	Expenditure time
			Format: <i>yyyy-MM-dd</i> 'T' <i>HH:mm:ss</i> 'Z' (UTC time is used.)
			• For yearly/monthly resources, the value of this parameter is same as the bill transaction time.
			• For pay-per-use resources or resources paid by installment, the value of this parameter is the billing start time and end time.
			 NOTE The value of this parameter is available only when statistic_type is set to 3.
be_id	String	64	Huawei Cloud business entity ID.
			NOTE During resource consumption, for a common customer, the value of be_id is 0 . For a customer associated with a partner, the value of be_id is not 0 . For an enterprise member account that is associated with an enterprise master account for unified accounting, the value of be_id is the same as that of the associated master account.
extend_params	ResRelation	-	Resource relationship information.

Parameter	Туре	Maximum Length	Description
	Object		This parameter is reserved. For details, see Table 7-6.

Table 7-5 AzCodeInfo

Parameter	Туре	Maximum Length	Description
az_code	String	64	AZ code

Table 7-6 ResRelation

Parameter	Туре	Maximum Length	Description
self_resource_id	String	A maximum of 64 characters	ID of the resource corresponding to the current fee.
relation_infos	List <relationinfo></relationinfo>	-	Resource information associated with the resource ID corresponding to the current fee. For details, see Table 7-7.

Table 7-7 RelationInfo

Paramete r	Туре	Maximum Length	Description
relative_re source_id	String	A maximum of 128 characters	Associated resource ID.
relative_ty pe	String	-	Associated resource type. • PARENT : parent resource • ROOT : root resource

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/0|200GB",
             "pre order id": "CS23*****54B1AEW4J",
        "az code infos": [{
            "az_code": "cn-north-1c"
        }],
             "payer account id": "ZS78*****56A1BEF4J",
             "effective time": "2024-07-06T16:00:00Z",
             "expire time": "2024-08-06T16:00:00Z",
             "consume time":null,
```

Status Code

D NOTE

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

HTTP Value	Error Code	Description
400	CBC.0100	Parameter error.
403	CBC.0151	Access denied.
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. For monthly-settlement customers, 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 7-8 Message header parameter

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

Table 7-9 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 4.1.1 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.
bill_type	No	Integer	-	 Bill type. 1: expenditure-purchase 2: expenditure-renewal 3: expenditure-change 4: refund-unsubscription 5: expenditure-use 8: expenditure-auto-renewal 9: adjustment-compensation 12: expenditure-hourly billing 13: expenditure-unsubscription service charge 14: expenditure-month-end deduction for support plan 15: expenditure-tax 16: adjustment-deduction 17: expenditure-difference amount (min. guaranteed-actual) NOTE Expenditure-difference amount (min. guaranteed-actual) determines the fees that a customer needs to pay if the customer does not reach the minimum expenditure limit stipulated in the

Parameter	Manda tory	Туре	Maximu m Length	Description
				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 or is left empty, it cannot be used as a filter criterion.
offset	No	Integer	0 to a maximum	Offset, which starts from 0. The default value is 0 .
			integer	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 are 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_proj	No	String	64	Enterprise project ID.
ect_id				• 0: ID of a default project
				• -1: The service does not support enterprise project management.

Parameter	Manda tory	Туре	Maximu m Length	Description
				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.
include_zero_r ecord	No	Boolean	_	 Whether to return records for which the amount due is 0. true: Yes false: No If this parameter is not included or is left empty, it cannot be used as a filter criterion.
method	No	String	64	 Method of querying resource consumption records. oneself: Query the resource consumption records of an enterprise itself. sub_customer: Query the resource consumption records of enterprise's sub-customers. all: Query the resource consumption records of an enterprise and its sub-customers. 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_customer_ 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.
trade_id	No	String	64	 Order or transaction ID. If the value of bill_type is 1, 2, 3, 4, 103, or 8, this field indicates the order ID. For other bill types, this parameter indicates a transaction ID that uniquely identifies a fee deduction dimension.

Parameter	Manda tory	Туре	Maximu m Length	Description
				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. NOTE This field does not take effect when statistics are collected by billing cycle
				type.
bill_date_begin	No	String	10	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 .
				• This field does not take effect when statistics are collected by billing cycle type.
bill_date_end	No	String	10	End date for querying the resource consumption records, which is in YYYY-MM-DD format (GMT+08:00).
				If this parameter is not included in the request parameters, is left empty, or is set to "", the last day of the billing cycle is used.
				NOTE
				• This parameter value must be in the month specified by parameter cycle .
				• bill_date_begin and bill_date_end must be set at the same time. Otherwise, resources are queried only by cycle .
				• This field does not take effect when statistics are collected by billing

Parameter	Manda tory	Туре	Maximu m Length	Description
				cycle type.
statistic_type	No	Integer	-	Statistics type. The default value is 3 .
				• 1: By billing cycle
				• 3 : By details
				If this parameter is not included in the request or is set to null , the default value 3 is used.

Request Message

Request Parameters

None

Example Request

```
GET
```

```
https://bss-intl.myhuaweicloud.com/v2/bills/customer-bills/res-fee-records?cycle=2
020-09&charge_mode=1&method=sub_customer&sub_customer_id=05b5fef62300d2ad0f9&c00be
fba72c0&trade_id=
CS1908201442ZLEPW476&bill_date_begin=2020-09-01&bill_date_end=2020-09-30&statistic
_type=1 HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

Response Message

Response Parameters

Parameter	Туре	Maximum Length	Description
error_code	String	16	Status code. For details, see Status code. This parameter is returned only when a failure occurs.
error_msg	String	1024	Error description. This parameter is returned only when a failure occurs.
fee_records	List <resf eeRecordV 2></resf 	-	Resource usage record. For details, see Table 7-10.
total_count	Integer	-	Number of result sets. This parameter is returned only when the query is successful.
currency	String	3	Currency. USD

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.
bill_type	Integer		 Bill type. 1: expenditure-purchase 2: expenditure-renewal 3: expenditure-change 4: refund-unsubscription 5: expenditure-use 8: expenditure-auto-renewal 9: adjustment-compensation 12: expenditure-hourly billing 13: expenditure-uses 14: expenditure-runsubscription service charge 14: expenditure-month-end deduction for support plan 15: 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
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

 Table 7-10 ResFeeRecordV2

Parameter	Туре	Maximum Length	Description
			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_ty pe	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_ty pe_name	String	200	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .
resource_type_na me	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 reserved for resources billed on a pay-per-use or yearly/monthly basis or resources paid by installment. Format: <i>yyyy-MM-dd</i> 'T' <i>HH:mm:ss</i> 'Z' (UTC time is used.)
expire_time	String	32	End time of using the resource corresponding to the fee. This field is reserved for resources billed on a pay-per-use or yearly/monthly basis or resources paid by installment. Format: yyyy-MM-dd'T'HH:mm:ss'Z'
resource_id	String	128	(UTC time is used.) Resource ID.
	String	256	Resource name.
resource_name	Sumg	230	

Parameter	Туре	Maximum Length	Description
			NOTE The return value of this parameter is manually entered by the user when placing a resource order. Internationalization is not supported.
resource_tag	String	8,192	Resource tag.
product_id	String	64	Product ID.
product_name	String	256	Product name.
product_spec_des c	String	512	Product specification description.
sku_code	String	64	SKU code, which uniquely identifies the resource specification in a bill.
spec_size	BigDecimal	-	 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_measur e_id	Integer	-	Product size unit, which is available only for linear products.To obtain the unit, call the API in 4.1.5 Querying Measurement Units.
trade_id	String	64	Order or transaction ID, which is the unique identifier of a fee deduction dimension.
id	String	256	Unique ID This value of the unique ID will not be returned when statistics are collected by billing cycle type.
trade_time	String	32	Transaction time Format: yyyy-MM-dd"T'HH:mm:ss'Z' (UTC time is used.)
enterprise_project _id	String	128	 Enterprise project ID. 0: ID of a default project null: The service does not support enterprise project management.
enterprise_project _name	String	256	Enterprise project name. NOTE The return value of this parameter is manually entered by users. Internationalization is not supported.

Parameter	Туре	Maximum Length	Description
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: Year
			• 20: Month
			• 24: Day
			• 25: Hour
			• 5: One-off
usage_type	String	-	Usage type, which can be obtained by calling the API described in 4.1.4 Querying Usage Types.
usage	BigDecimal	-	Resource usage.
			NOTE
			If the resource type is yearly/monthly resources, resource usage is not returned.
usage_measure_i d	Integer	-	Resource usage measurement unit, which can be obtained by calling the API described in 4.1.5 Querying
			Measurement Units.
			NOTE If the resource type is yearly/monthly resources, the resource usage measurement unit is not returned.
free_resource_usa ge	BigDecimal	-	Package usage.
free_resource_me asure_id	Integer	-	Usage measurement unit in a package, which can be obtained by calling the API described in 4.1.5 Querying Measurement Units.
ri_usage	BigDecimal	-	Reserved instance usage.
ri_usage_measure _id	Integer	-	Unit (reserved instance usage).
unit_price			1

Parameter	Туре	Maximum Length	Description
			• 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 upgrade, capacity expansion, and pay-per-use
			 Simple pricing
unit	String	64	The unit of unit price.
			• The unit of linear products is USD/{ <i>linear unit</i> }/month or USD/{ <i>linear unit</i> }/hour.
			• The unit of non-linear products is USD/month or USD/hour.
			 NOTE The linear unit is the unit of linear products (those come in sizes). For example, the linear unit of the hard disk is GB, and that of the bandwidth is Mbit/s.
official_amount	BigDecimal	-	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_amount	BigDecimal	-	Discount, which is offered to customers when they use cloud services, for example, commercial discounts, partner-granted discounts, and promotional discount.
amount	BigDecimal	_	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

Parameter	Туре	Maximum Length	Description
			the values of cash_amount, credit_amount, coupon_amount, flexipurchase_coupon_amount, stored_card_amount, bonus_amount, debt_amount, and adjustment_amount.
cash_amount	BigDecimal	-	Amount paid in cash.
credit_amount	BigDecimal	-	Amount paid using the credit.
coupon_amount	BigDecimal	-	Amount paid using the cash coupon.
flexipurchase_co upon_amount	BigDecimal	-	Amount paid using the flexi-purchase coupon.
stored_card_amo unt	BigDecimal	-	Amount paid using the values-stored card.
bonus_amount	BigDecimal	-	Bonus payment amount (used for the bonus that is not cleared on the live network).
debt_amount	BigDecimal	-	Debt.
adjustment_amou nt	BigDecimal	-	Adjustment amount.
measure_id	Integer	-	Unit. 1: USD
formula	String	2048	 Formula for calculating the actual payment amount. Currently, only the following scenarios are involved: Non-linear pricing for pay-per-use resources {Usage}[Usage]/{Unit conversion rate}[Unit conversion] x {Unit price}[Unit price] - {Discounted amount}[Discounted amount] - {Truncated amount}[Truncated amount] - {Cash coupon used}[Cash coupon used] Linear pricing for pay-per-use resources {Usage}[Usage]/{Unit conversion rate}[Unit conversion] x {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] - {Cash coupon used} Non-linear pricing for yearly/monthly subscriptions and

Parameter	Туре	Maximum Length	Description
			renewals
			{Number of periods}[Number of periods]/{Period conversion rate}[Period conversion] x {Unit price}[Unit price] - {Discounted amount}[Discounted amount] - {Cash coupon used}[Cash coupon used]
			• Linear pricing for yearly/monthly subscriptions and renewals
			{Number of periods}[Number of periods]/{Period conversion rate}[Period conversion] x {Linear size}[Specification] x {Unit price}[Unit price] - {Discounted amount}[Discounted amount] - {Cash coupon used}[Cash coupon used]
			 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 courses amount
			 coupon_amount. When statistic_type is set to 1 (by billing cycle type), the formula for calculating the actual payment amount will not be returned.
sub_service_type _code	String	64	Service type code of a child service that is attached to an ECS.
sub_service_type _name	String	200	Service type name of a child service that is attached to an ECS.
sub_resource_typ e_code	String	64	Resource type code of a child resource that is attached to an ECS.

Parameter	Туре	Maximum Length	Description
sub_resource_typ e_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_na me	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. NOTE The return value of this parameter is manually entered by the user when placing a resource order. Internationalization is not supported.
consume_time	String	32	 Expenditure time Format: <i>yyyy-MM-dd</i>'T'<i>HH:mm:ss</i>'Z' (UTC time is used.) For yearly/monthly resources, the value of this parameter is same as the bill transaction time. For pay-per-use resources or resources paid by installment, the value of this parameter is the billing start time and end time. NOTE The value of this parameter is available only when statistic_type is set to 3.
relative_order_id	String	64	ID of the order included in a combined order NOTE This parameter has a value only when the order is a combined order and the resources in the order are billed on a yearly/monthly basis. If the order is a common order, this parameter is left blank.

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": "90301-686007-00",
"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_pame": "default"
"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,
"consume time":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]"
          "relative order id":"ECS*****PU70955"
},
    {
          "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,
          "consume time":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]
```

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.
- **5***xx*: This class of HTTP status code is intended for cases in which the Huawei Cloud server is aware that it has encountered an error or is otherwise incapable of performing the request. In this case, contact Huawei Cloud customer service.

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

8 Cost Management

8.1 Querying Cost Data

8.1 Querying Cost Data

Function

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

NOTE

•	Original costs: There is an appropriately one-hour delay before data from Billing Center shows up as original costs for the current month on the platform. To view the exact amounts, see the final bill that will be generated on the 3rd day of the following month. The original costs are available for viewing
	after 12:00 noon on the 4th day of the following month.
•	Amortized costs: They are not calculated in real time. Your amortized costs are refreshed once every

• Amortized costs: They are not calculated in real time. Your amortized costs are refreshed once every 24 hours, and it may take longer than 24 to 48 hours for some data to be displayed. The current month costs of monthly-settlement cloud services, such as CDN and VPC, are available for viewing after 12:00 noon on the 4th day of the following month.

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 in API Explorer.

URI

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

Table 8-1 Header parameters

Parameter	Manda tory	Value Range	Description
-----------	---------------	----------------	-------------

Parameter	Manda tory	Value Range	Description
X-Languag e	No	A maximu m of 8 character s	Language. zh_CN: Chinese en_US: English Default value: zh_CN

Request

Request Parameters

Parameter	Mandat ory	Туре	Value Range	Description
time_condi tion	Yes	TimeCon dition Object	_	Time condition. For details, see Table 8-2.
groupby	Yes	List <gro upBy></gro 	A maximu m 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 maximu m of 256 characte rs	 Cost type. ORIGINAL_COST: Original cost AMORTIZED_COST: Amortized cost
amount_ty pe	Yes	String		Amount type.PAYMENT_AMOUNTNET_AMOUNT.
filters	No	List <filte r></filte 	Minimu m length: 0 characte rs Maxim um length: 100 characte rs	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	[0-2000	Offset, starting from 0 . The default value

Parameter	Mandat ory	Туре	Value Range	Description
			00]	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.
limit	No	Integer	[1,1000]	Number of records queried each time. The default value is 10 .

Table 8-2 TimeCondition

Parameter	Mandat ory	Туре	Value Range	Description
time_meas ure_id	Yes	Integer	[1,2]	Time unit. 1: Day 2: Month
begin_time	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

Parameter	Mandat ory	Туре	Value Range	Description
type	Yes	String	А	• tag : Grouped by cost tags

Parameter	Mandat ory	Туре	Value Range	Description
			maximu m of 64 characte rs	 cost_unit: Grouped by cost categories dimension: Default value
key	Yes	String	A maximu m of 128 characte rs	 If type is set to tag, the value for this parameter is the key of the tag. If type is set to cost_unit, set this parameter to the key of cost_unit. If type is set to dimension, the value options are as follows: CLOUD_SERVICE_TYPE: Service type ASSOCIATED_ACCOUNT: Linked account NOTE An enterprise master account that has the permission to view the expenditure data of its associated member accounts can view the cost data of the member accounts. REGION_CODE: Region RES_SPEC_CODE: Specification code USAGE_TYPE: Usage type ENTERPRISE_PROJECT_ID: Enterprise project RESOURCE_ID: Resource CHARGING_MODE: Billing mode BILL_TYPE: bill type RESOURCE_TYPE: Resource type AZ_CODE: AZ BE_ID: Business entity PAYER_ACCOUNT_ID: Payer account

Table 8-4 Filter

Parameter	Mandat ory	Туре	Value Range	Description
operator	Yes	Integer	[0-1]	Operator.0: Only contains

Parameter	Mandat ory	Туре	Value Range	Description
				• 1: Only excludes
filter_facto r	Yes	FilterFact or Object	-	Filter factor. For details, see Table 8-5.

Table 8-5 FilterFactor

Parameter	Mandat ory	Туре	Value Range	Description
key	Yes	String	A maximu m of 256 characte rs	 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 	Minimu m	Filter value.

Parameter	Mandat ory	Туре	Value Range	Description
			count: 1	
			Maxim	
			um	
			count:	
			100	

Example Request

```
POST https://bss-intl.myhuaweicloud.com/v4/costs/cost-analysed-bills/query HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
{
   "amount type": "PAYMENT AMOUNT",
   "offset": 0,
   "cost_type": "ORIGINAL_COST",
   "limit": 10,
   "groupby": [{
       "type": "dimension",
       "key": "CLOUD_SERVICE_TYPE"
}],
   "filters": [{
       "filter factor": {
           "value": ["cn-north-1"],
    "key": "REGION CODE"
},
"operator": 0
}],
   "time condition": {
       "end_time": "2021-07-15",
       "begin_time": "2021-07-14",
        "time measure id": 1
}
```

Response Message

Response Parameters

Parameter	Туре	Value Range	Description
error_code	String	A maximum of 20 characters	Returned value. 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.

Parameter	Туре	Value Range	Description
currency	String	A maximum of 8 characters	Currency. • USD
total_count	Integer	-	Total number of records.
cost_data	List <costd ataByDime nsion></costd 	-	Cost details by day or month. For details, see Table 8-6.

Table 8-6 CostDataByDimension

Parameter	Туре	Value Range	Description
dimensions	List <dime nsionGroup ></dime 	A maximum 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_co sts	String	A maximum of 64 characters	Total cost in a period.
official_amou nt_by_costs	String	A maximum of 64 characters	Total expenditures based on list prices in a period.

Table 8-7 DimensionGroup

Parameter	Туре	Value Range	Description
key	String	A maximum of 128 characters	 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

Parameter	Туре	Value Range	Description
			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_dimensio n_value	String	A maximum of 20 characters	 Time dimension. yyyy-mm-dd indicates that data is filtered by day. yyyy-mm indicates that data is filtered by month.
time_measure _id	Int	-	Time unit. • 1: Day • 2: Month
amount	String	A maximum of 64 characters	One of the following cost types: original costs, net original costs, amortized costs, and net amortized costs.
official_amou nt	String	A maximum of 64 characters	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
          }
       1,
       "costs": [
         {
              "time dimension value": "2021-08",
              "time measure id": 2,
              "amount": "13225.00",
              "official amount": "13225.00"
       1,
       "amount by costs": "13225.00",
       "official amount by costs": "13225.00"
```

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	Invalid parameter.
400	CBC.18000014	Cost Center not enabled.
400	CBC.18000016	Insufficient permissions. Contact your partner.
400	CBC.18000053	Insufficient permissions. Contact your enterprise master.
500	CBC.0999	Other errors.
400	CBC.18000048	Too many independent accounting members. Specify a member account for query.

9 Managing an Enterprise

- 9.1 Managing Enterprise Projects
- 9.2 Managing Enterprise Accounts

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

 $\label{eq:https://bss-intl.myhuaweicloud.com/v2/enterprises/enterprise-projects/authority \mbox{HTTP/1.1}$

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

Response

Response parameters

Status code: 204

Success is returned by default.

Status code: 400

Parameter	Туре	Value Limit	Description
error_code	String	20	Status code. For details, see Status Code. This parameter is returned when the query fails.
error_msg	String	1,000	Error description. This parameter is returned when the query fails.
fail_check_ite ms	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_A ND_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

D NOTE

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

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

9.2 Managing Enterprise Accounts

9.2.1 Querying Enterprise Member Accounts

Function

This API can be used by an enterprise master account to query member accounts on the self-built platform.

Constraints

This API can be invoked only by the enterprise master account AK/SK or token.

Debugging

You can debug this API in API Explorer.

URI

 $GET\ /v2/enterprises/multi-accounts/sub-customers$

The following table describes the parameters.

Table 9-2 Parameters

Parameter	Mandat ory	Туре	Maximu m Length/ Value	Description
			Range	

Parameter	Mandat ory	Туре	Maximu m Length/ Value Range	Description
sub_customer_ account_name	No	String	A maximum of 64 characters	Account name of the enterprise member account. The value of fuzzy_query determines whether to perform a fuzzy search. Only prefix, suffix, or middle part can be used for fuzzy search. The content you enter for fuzzy search cannot contain spaces. 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.
sub_customer_ display_name	No	String	A maximum of 64 characters	 Display name of the enterprise member account. The value of fuzzy_query determines whether to perform a fuzzy search. Only prefix, suffix, or middle part can be used for fuzzy search. The content you enter for fuzzy search cannot contain spaces. NOTE If the value contains Chinese characters or special characters, use encodeURIComponent to encode the value. 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.
fuzzy_query	No	Integer	-	 Whether to perform a fuzzy search for the display name and account name of the enterprise member account. The default value is 0 (indicating not to perform a fuzzy search). 0: No 1: Yes
offset	No	Integer	[0, Maximu	Offset, starting from 0 . The default value is 0 .

Parameter	Mandat ory	Туре	Maximu m Length/ Value Range	Description
			m integer]	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 are 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 .
org_id	No	String	A maximum of 20 characters	ID of the organization to which the member account belongs. If this parameter is not included or is left empty, it will not be used as a filter criterion.

Request Message

Request Parameters

None

Example Request

```
GET
```

```
https://bss-intl.myhuaweicloud.com/v2/enterprises/multi-accounts/sub-customers?off
set=0&limit=10&sub_customer_account_name=d_2035&sub_customer_display_name=m&fuzzy_
query=1&org_id=65419 HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

Response Message

Response Parameters

Parameter	Туре	Maximum Length/Val ue Range	Description
error_code	String	A maximum of 16 characters	Error code. For details, see Status Codes. This parameter is returned only when a failure occurs.
error_msg	String	A maximum of 1,024 characters	Error description. This parameter is returned only when a failure occurs.
sub_customer_inf os	List <subcust omerInfoV2></subcust 	-	List of customers, which is available only when the API calling is successful. For details, see Table 9-3.
total_count	Integer	-	Number of customers returned in the response, which is available only when the API calling is successful.

Table 9-3 SubCustomerInfoV2

Parameter	Туре	Maximum Length/Val ue Range	Description
id	String	A maximum of 64 characters	Customer ID of the enterprise member account.
name	String	A maximum of 64 characters	Account name of the enterprise member account.
display_name	String	A maximum of 64 characters	Display name of the enterprise member account. Special characters are allowed.
status	Integer	-	 Member account statuses. The values are as follows: 1: Normal 2: Creating 3: Closing 4: Closed 101: Registering 102: To be activated
org_id	String	A maximum of 20 characters	ID of the organization to which the member account belongs.

Parameter	Туре	Maximum Length/Val ue Range	Description
org_name	String	A maximum of 64 characters	Name of the organization to which the member account belongs. NOTE If the organization to which the member account belongs is the root organization of an enterprise, this parameter may be left empty.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
"total_count": 1,
"sub_customer_infos": [
{
         "id": "4C2DC9******2F8F890E654589C2F7"
         "name": "A8****F112",
         "display_name": "A8****F112",
         "status": 1,
         "org id": "65419",
         "org_name": "Level-1 organization"
      }
1
}
```

Status Codes

D NOTE

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

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

10 Invoice Management

10.1 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

Parameter	Manda tory	Value Range	Description
domain_id	Yes	A maximu m of 64 character s	Customer account ID. For details, see 12.1 How Do I Obtain customer_id or domain_id?

Parameter	Mandato ry	Туре	Value Range	Description
start_time	Yes	String	A maximum of 64 characters	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 maximum of 64 characters	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.

 Table 10-1 Request parameters

Request Message

Request parameters

None

Example Request

```
GET
```

```
https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/payments/intl-invoices?start_t
ime=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 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	Error description. This parameter is returned only when the query failed.

Parameter	Туре	Value Range	Description
		rs	
count	Integer	-	Number of records. This parameter is returned only when the query is successful.
invoices	List <intlinv oiceRequest Info></intlinv 	-	Invoice list. For details, see Table 10-2.

Table 10-2 IntlInvoiceRequestInfo

Parameter	Туре	Value Range	Description
requestId	String	A maximu m of 64 characte rs	Request ID
cancelReason	String	A maximu m of 256 characte rs	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
invoiceTitle	String	A maximu m of 1024 characte rs	Invoice title
invoiceAmoun t	Number	-	Invoiced amount (USD)
invoiceMetho d	Integer	[0-2]	 Invoicing method 0: Invoicing by bill 1: Invoicing by payment

Parameter	Туре	Value Range	Description
			• 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 maximu m of 32 characte rs	Invoice applicant
addressInfo	PostAddress InfoIntl	-	Address information. For details, see Table 10-3.
applyTime	String	A maximu m of 64 characte rs	Application time (UTC time)
invoiceMode	String	0	Invoice type 0: Paper invoice
email	String	A maximu m of 400 characte rs	Email receiving the electronic invoice
requestMode	String	rs [0-2] Application type • 0: Invoice creation application • 1: Invoice return application • 2: Invoice change application	

Parameter	Туре	Value Range	Description
srcRequestId	String	A maximu m of 64 characte rs	Original application ID when the invoice is returned
salesId	String	A maximu m of 64 characte rs	Signing entity ID
invoiceNo	String	A maximu m of 32 characte rs	Invoice number
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 maximu m of 64 characte rs	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 character s	Recipient address
recipients	String	А	Recipient

Parameter	Туре	Value Range	Description
		maximu m of 1024 character s	
zipCode	String	A maximu m of 256 character s	Post code of the recipient address
mobilePhone	String	A maximu m of 256 character s	Recipient mobile number

Table 10-4 TaxInfo

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

```
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"
          "tradeType": 7,
          "billCycle": "201912",
          "taxList": [
             {
                 "taxClass": "WHT",
                 "taxRate": "0.15",
                 "subTaxClass": "WHT",
                 "taxAmount": 54.4
                 "taxClass": "VAT",
                 "taxRate": "0.06",
                 "subTaxClass": "VAT",
                 "taxAmount": 21.76
]
```

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 Erro Value	r Code	Description
--------------------	--------	-------------

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

11 APIs to Be Taken Offline

- 11.1 Product Management
- 11.2 Transaction Management
- 11.3 Bill Management

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.

D NOTE

This API will be brought offline soon. For details about the new API for querying cloud service types, see 4.1.1 Querying Cloud Service Types.

Constraints

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

KooGallery services are not included.

URI

GET /v2/bases/service-types

Parameter	Manda tory	Maximu m Length of Charact ers	Description
X-Languag e	No	A maximu m of 8 character s	Language. zh_CN: Chinese en_US: English Default value: zh_CN

Table 11-1 Header parameter

Table 11-2 Request parameters

Parameter	Manda tory	Туре	Maxim um Length of Charact ers	Description
service_typ e_code	No	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 . 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.se
rvice.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 character s	Error code. For details, see Status Codes. 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.
service_typ es	List <ser viceType ></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_type _name	String	A maximu m of 200 character s	Cloud service type name.
service_type _code	String	A maximu m of 64 character s	Cloud service type code.
abbreviation	String	A maximu m of 200 character s	Abbreviation of the cloud service type.

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
    "service_types": [
    {
        "service_type_name": "HUAWEI CLOUD WeLink",
        "service_type_code": "hws.service.type.workplace",
        "abbreviation": "WeLink"
    }
  ]
}
```

Status Codes

D 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.

D NOTE

This API will be brought offline soon. For details about the new API for querying resource types, see 4.1.2 Querying Resource Types.

Constraints

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

URI

GET /v2/bases/resource-types

Parameter	Manda tory	Maximu m Length of Charact ers	Description
X-Languag e	No	A maximu m of 8 character s	Language. zh_CN: Chinese en_US: English Default value: zh_CN

Table 11-4 Header parameter

Table 11-5 Request parameters

Parameter	Manda tory	Туре	Maxim um Length of Charact ers	Description
resource_ty pe_code	No	String	A maximu m of 64 character s	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 character s	Error code. For details, see Status Codes. 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.
resource_ty pes	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_ty pe_code	String	A maximu m of 64 character s	Resource type code. For example, the resource type code of ECS is hws.resource.type.vm .
resource_ty pe_name	String	A maximu m of 200 character s	Resource type name.
resource_ty pe_desc	String	A maximu m of 200 character s	Resource type description.

Status Codes

D 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 (Old)

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.

NOTE

This API will be brought offline soon. For details about the new API for querying orders, see 6.2.1 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.

Orders								Help Center
	Your credit limit is set by your associated reseller and is used to control your service usage within the limit. When you enable a service, HLAWEI CLDUD deducts the official price from your credit limit. This deduction is used only to meter your usage and is not equal to the final payment. If you are associated with a reseller by resale, the reseller provides your bill and amount due information.							
Pending Payment	All							
Export					C	Created On: All		Enter an order No. Q
Order No.	Service Type 😗	Created On	Paid On	Order Status 7	Order Type 🛛	Subtotal (U	Total	Operation
CS1905250936CN067	Elastic Volume Servi	May 25, 2019 09:36:31 GM	-	 Completed 	Unsubscription	-0.09	-0.09	Details
CS1905201648A2WA8	Elastic Cloud Server	May 20, 2019 16:48:40 GM	-	S Canceled	New purchase	14.88		Details
CS1905101022R4X66	Elastic Volume Servi	May 10, 2019 10:22:42 GM	-	S Canceled	New purchase	0.92		Details
CS1904291817VW00F	Elastic Volume Servi	Apr 29, 2019 18:17:54 GM	Apr 29, 2019 18:18:15 GM	 Completed 	New purchase	0.58	0.58	Details
CS1904011629L5RW5	Elastic Volume Servi	Apr 01, 2019 16:29:00 GM	-	S Canceled	New purchase	0.92		Details
CS1902011136BUHF6	Elastic Volume Servi	Feb 01, 2019 11:36:09 GM	Feb 01, 2019 11:36:16 GM	 Completed 	New purchase	0.58	0.58	Details

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.

D 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 11.2.2.1 Querying Customer's Yearly/Monthly Resources (Old). 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.

Paramet er	Mandat ory	Maxim um Length of Charact ers	Description
domain_i d	Yes	A maximu m of 64 character s	Customer account ID. For details, see 12.1 How Do I Obtain customer_id or domain_id?

Table 11-8 Request param	eters
--------------------------	-------

Paramete r	Mandat ory	Туре	Maxim um Length of Charac ters/Va lue Range	Description
order_id	No	String	A maximu m of 64 charact ers	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.
customer_ id	No	String	A maximu m of 64 charact ers	Customer account ID. For details, see 12.1 How Do I Obtain customer_id or domain_id? 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_tim e_begin	No	String	A maximu m of 64 charact ers	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 .
create_tim e_end	No	String	A maximu m of 64 charact ers	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_ty pe	No	String	A maximu m of 64	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs . To obtain a specific

Paramete r	Mandat ory	Туре	Maxim um Length of Charac ters/Va lue Range	Description
			charact ers	service type, call the API in 4.1.1 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 maximu m of 64 charact ers	 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 "".
order_typ e	No	String	A maximu m of 64 charact ers	 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, is left empty, or is set to null, it cannot be used as a filter criterion. It cannot be set to "".
page_size	Yes	Integer	[1-100]	Number of rows on a page.
page_inde x	Yes	Integer	[1-Maxi mum integer]	Current page number. If the value of this parameter exceeds 1000000 , the default value 1 is used.

Paramete r	Mandat ory	Туре	Maxim um Length of Charac ters/Va lue Range	Description		
sort	No	String	A maximu m of 36 charact ers	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 .		
payment_t ime_begin	No	String	A maximu m of 64 charact ers	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 <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> 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 .		
payment_t ime_end	No	String	A maximu m of 64 charact ers	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 <i>HH</i> is 0-23, and the range of <i>mm</i> and <i>ss</i> 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 .		

2. Request

Request Parameters

None

Example Request

GET

```
https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/common/order-mgr/orders/det
ail?page_size=5&page_index=1 HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggglBBIINPXsidG9rZ
```

3. 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 <custom erOrder></custom 	Order details. For details, see Table 11-10.

Table 11-10 CustomerOrder

Parameter	Туре	Description
orderId	String	Order ID.
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.
beId	String	HUAWEI CLOUD business entity ID.
customerId	String	Customer ID.

Parameter	Туре	Description		
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 		
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 .		
currencyAfter Discount	Double	Order amount after a discount (excluding the vouchers or cards)		
measureId	Integer	Order amount unit. • 1: Dollar • 2: Dime • 3: Cent		
measureName	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.		
paymentTime	String	Payment time. UTC time in "yyyy-MM-dd'T'HH:mm:ss'Z'" format, for		

Parameter	Туре	Description				
		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.				
lastUpdateTim	String	Latest status update time.				
e		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.				
currencyType	String	Currency code.				
contractId	String	Contract ID.				
currencyOffici	Double	Order amount (list price).				
al		In the unsubscription order, the amount is equal to the value of currencyAfterDiscount .				
amountInfo	AmountInfo	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 4.1.1 Querying Cloud Service Types.				

Table 11-11 AmountInfo

Parameter	Туре	Description		
discountList	List <discoun tItem></discoun 	Fee item. For details, see Table 11-12.		
cashcouponA mount	Double	Flexi-purchase coupon amount (reserved).		
couponAmoun Double t		Cash coupon amount.		
cardAmount	Double	Stored-value card amount (reserved).		
commissionA mount	Double	Handling fee (only for unsubscription orders).		
consumedAm ount	Double	Consumption amount (only for unsubscription orders).		

Parameter	Туре	Description				
discountType	String	Discount type.				
		200 : Promotion product discount				
		300 : Promotion discount coupon				
		301 : Promotion coupon				
		Discount type. 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 channel 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				
		500: Specified discount for agent subscription				
		501: Specified exemption for agent subscription				
		502: Specified buy-it-now price for agent subscription				
		-				
		601: Discount specified in the channel frame contract				
		605: Discount specified in the commercial contract				
		1				
		607: Partner authorized discount				
		609: discount for adjusting an order price				
		610: Discount amount				
		700: Promotion discount				
		800: Top-up account discount				
discountAmou nt	Double	Discounted amount.				

 Table 11-12
 DiscountItem

```
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",
```

```
"baseOrderId": null,
     "beId": "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

D 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
200	CBC.00 00	Succeeded.
400	CBC.01 00	Incorrect parameter.
400	CBC.01 01	Invalid parameter.
403	CBC.01	Access denied.

HTTP Status Code	Error Code	Description
	51	
403	CBC.01 55	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.09 99	Other errors.

11.2.1.2 Querying Order Details (Old)

Function

A customer can invoke this API to query order bills.

D NOTE

This API will be brought offline soon. For details about the new API for querying order details, see 6.2.2 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.

Orders								⑦ FAQs
All Cloud Serv	ices							
Export All					[Created On All	• Ente	an order No. or ç 🛛 🛛 🕻
Order No.	Service Type 🛛	Order Type 7	Created On	Paid On	Order Status 7	Subtotal (USD)	Total	Operation
CS2010131423QA44N	Elastic Volume Service	New purchase	Oct 13, 2020 14:23:4		Pending Payment	10.80		Pay Details Cancel
СS2010091009К0297	Elastic Cloud Server	New purchase	Oct 09, 2020 10:09:0		Pending Payment	6.00		Pay Details Cancel

Step 4 Click Details for the target order.

Orders								⑦ FAQ
All Cloud Services								
Export All					Created O	n All 💌	Enter an order No. or c Q	С
Order No.	Service Type 🛛 🖓	Order Type 🛛	Created On	Paid On	Order Status 🛛 🖓	Subtotal (USD)	Total Operation	
CS2010131423QA44N	Elastic Volume Service	New purchase	Oct 13, 2020 14:23:4		Pending Payment	10.80	Pay Details Cancel	
С52010091009К0297 🗗	Elastic Cloud Server	New purchase	Oct 09, 2020 10:09:0		Pending Payment	6.00	Pay Details Cancel	

NOTE

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

indicates

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

Pending Payment	Payable Amount : \$4	I.60 USD Please pay for	r this order before Jun 24, 2020 16:48:22 (GMT+08:00 or the order will ex	pire.			
eated On : Jun 17, 2020 16:48:22	: GMT+08:00			Order Type : New purcha	se			
esource Details								
Name/ID	Region	Service Type	Current Configuration	Enterprise Pr	Billing Mode	Resource Period	Quantity	Subtotal (

• 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 11.2.2.1 Querying Customer's Yearly/Monthly Resources (Old) 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

Parameter	Mandato ry	Maximu m Length of Character s	Description
domain_id	Yes	A maximum of 64 characters	Customer account ID. For details, see 12.1 How Do I Obtain customer_id or domain_id?
order_id	Yes	A maximum of 64 characters	Order ID. The system will return the orders if the orders are queried.

Parameter	Mandato ry	Value Range	Description
offset	No	[1- Maximum 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 "".

Table 11-14 Request parameters

2. Request

Request Parameters None Example Request

```
GET
https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/common/order-mgr/orders/CS*
****07 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	CustomerOr derEntity	Order details. This parameter is available only when offset is set to 1 . For details, see Table 11-15.
count	Integer	Number of order items
orderlineItems	List <orderli neItemEntity ></orderli 	Order items in an order For details, see Table 11-16.

Parameter	Туре	Description
orderId	String	Order ID
baseOrderId	String	Parent order ID (order ID before splitting). This parameter is returned only for renewal orders.
beId	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
orderType	Integer	Order type. The value can be:1: New purchase2: Renewal3: Change4: Unsubscription10: Yearly/monthly to pay-per-use11: Pay-per-use to yearly/monthly13: Trial14: Commercial use15: Price adjustment
currency	Double	Order amount (original price). In the unsubscription order, the amount is equal to the value of currencyAfterDiscount .
currencyAfter Discount	Double	Order amount after a discount (excluding the vouchers or cards)
measureId	Integer	Order amount unit. • 1: Dollar • 2: Dime • 3: Cent

Parameter	Туре	Description
measureName	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.
paymentTime	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.
lastUpdateTim e	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.
currencyOffici al	Double	Order amount (list price). In the unsubscription order, the amount is equal to the value of currencyAfterDiscount .
amountInfo	AmountInfo	Order deduction details. For details, see Table 11-17.
currencyType	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 4.1.1 Querying Cloud Service Types.

Table 11-16 OrderLineItemEntity

Parameter	Туре	Description
orderLineItem Id	String	Order item ID.
cloudServiceT ype	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 4.1.1 Querying Cloud Service Types.
productId	String	Product ID.

Parameter	Туре	Description
productSpecD esc	String	Product specification 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.
subscriptionN um	Integer	Number of subscriptions.
currency	Double	Order amount (original price). In the unsubscription order, the amount is equal to the value of currencyAfterDiscount .
currencyAfter Discount	Double	Order amount after a discount (excluding the vouchers or cards).
currencyOffici al	Double	Order amount (list price). In the unsubscription order, the amount is equal to the value of currencyAfterDiscount .
amountInfo	AmountInfo	Order deduction details. For details, see Table 11-17.
currencyType	String	Currency code.
categoryCode	String	Product catalog code.

Table 11-17	AmountInfo
--------------------	------------

Parameter	Туре	Description
discountList	List <discoun tItem></discoun 	Fee item. For details, see Table 11-18.
cashcouponA mount	Double	Flexi-purchase coupon amount (reserved).
couponAmoun t	Double	Cash coupon amount.
cardAmount	Double	Stored-value card amount (reserved).
commissionA mount	Double	Handling fee (only for unsubscription orders).
consumedAm ount	Double	Consumption amount (only for unsubscription orders).

Table 11-18 DiscountItem

Parameter	Туре	Description
discountType	String	Discount type.
		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

Parameter	Туре	Description	
		700: Promotion discount800: Top-up account discount	
discountAmou nt	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,
       "beId": "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
            }1,
            "cashcouponAmount": 0,
            "couponAmount": 3,
            "cardAmount": 0,
            "commissionAmount": null,
            "consumedAmount": null
        "currencyType": "USD"
    }1
}
```

4. Status Code

D 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
200	CBC.00 00	Succeeded.
400	CBC.01 00	Incorrect parameter.
400	CBC.01 01	Invalid parameter.
403	CBC.01 51	Access denied.
403	CBC.01 55	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.

HTTP Status Code	Error Code	Description
500	CBC.09 99	Other errors.

11.2.1.3 Paying Yearly/Monthly Product Orders (Old)

Function

NOTE

This API will be brought offline soon. For details about the new API for paying yearly/monthly product orders, see 6.2.4 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.

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

Constraints

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

URI

POST /v2/orders/customer-orders/pay

Request

Request Parameters

Parameter	Mand atory	Туре	Maxim um Length of Charact ers	Description
order_id	Yes	String	A maximu m of 64 characte rs	Order ID. The value is the same as the order_ids value in the response message of API described in 6.3.2 Renewing Subscription to Yearly/Monthly Resources.
coupon_inf os	No	List <coup onSimpleI nfoOrderP ay></coup 	[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 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_in fos	No	List <disc ountSimpl eInfo></disc 	[0-1]	Discount ID list. For details, see Table 11-20. 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

Paramete r	Manda tory	Туре	Maxim um Length of Charac ters	Description
id	Yes	String	A maximu m of 64 characte rs	Coupon ID.
type	Yes	Integer	[300-30 3]	 Coupon type. 300: Discount coupon (reserved) 301: Promotion coupon

Paramete r	Manda tory	Туре	Maxim um Length of Charac ters	Description
				 302: Promotion flexi-purchase coupon (reserved) 303: Promotion stored-value card (reserved)

Table 11-20 DiscountSimpleInfo

Paramete r	Manda tory	Туре	Maxim um Length of Charac ters	Description
id	Yes	String	A maximu m of 64 characte rs	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

```
],
   "discount_infos": [
        {
            "id": "PDP2011260815047721TYT48G0BA02EI",
            "type": 1
        }
    ],
    "order_id": "CS20052715001E4CR"
}
```

Response

Response Parameters

Status code: 204

Success is returned by default.

Status code: 400

Parameter	Туре	Maximu m Length of Characte rs	Description
error_code	String	A maximum of 10 characters	Error code. For details, see Status Codes.
error_msg	String	A maximum of 256 characters	Error description.
quota_infos	List <quotai nfo></quotai 	-	 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_p roject_auth_ result	List <enterpr iseProject></enterpr 	-	Information about the enterprise project whose fund is insufficient. For details, see Table 11-22.

Parameter	Туре	Maximu m Length of Characte rs	Description
			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, ap-southeast-1 . Obtain the value from the Region column in Regions and Endpoints.	
service_type _code	String	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .	
resource_typ e_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_spe c_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_type _name	String	Cloud service type. For example, the cloud service type of ECS is Elastic Cloud Server .	
resource_typ e_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.	

Parameter	Туре	Description	
		• 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_zo	String	AZ ID.	
ne		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_p roject_id	String	 ID of the enterprise project where an order belongs. 0: ID of a default project -1 or null: Non-project ID 	
enterprise_p roject_name	String	Enterprise project name.	
auth_status	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.	

Example Response

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

Status Codes

D 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.99000046	Insufficient budget.
400	CBC.30000010	Operation not allowed because the order is invalid or does not exist.

HTTP Status Code	Error Code	Description
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.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.

HTTP Status Code	Error Code	Description
400	CBC.99000089	Operation failed. Sub orders of a combine order cannot be processed independently.
400	CBC.99008056	The maximum number of transactions allowed today has been reached.

11.2.2 Yearly/Monthly Resource Management

11.2.2.1 Querying Customer's Yearly/Monthly Resources (Old)

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 U	RI parameters
---------------	---------------

Paramet er	Mandat ory	Maximu m Length of Characte rs	Description
domain_ id	Yes	A maximum of 64 characters	Customer account ID. For details, see 12.1 How Do I Obtain customer_id or domain_id?

Table 11-24 Request parameters

Daman						
Paramet er	Mandat ory	Туре	Maxim um Length of Charac ters/Va lue Range	Description		
resource _ids	No	String	A maximu m of 4096 characte rs	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 maximu m of 64 characte rs	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.		
only_mai n_resour ce	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 ''''. NOTE A primary resource takes the primary position 		

Paramet er	Mandat ory	Туре	Maxim um Length of Charac ters/Va lue Range	Description
				 in the associated resources. For the ECS service, ECSs are the primary resources, and EVS disks are 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_lis t	No	String	-	 Resource status. 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.
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/det
ail?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

Response Parameters

Parameter	Туре	Description
error_code	String	Error code. For details, see Status Code.
error_msg	String	Error description.
data	List <resourceinst ance></resourceinst 	Resource list. For details, see Table 11-25.
total_count	Integer	Total number of records. The default value is 0 .

Table 11-	-25 Resourc	ceInstance
-----------	-------------	------------

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_name	String	Resource instance name.
region_code	String	Region code.
cloud_service_t ype_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 4.1.1 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 4.1.2 Querying Resource Types.
resource_spec_ code	String	Specification of a cloud service resource. For example, a VM resource specification is

Parameter	Туре	Description				
		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_resource _id	String	Primary resource ID.				
is_main_resour ce	Integer	 Primary resource or not. 0: No 1: Yes 				
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_operation _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. 				

Example Response

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

```
{
"data": [
{
     "id": "01154-21800069-0",
    "status": 2,
    "resource id": "249****c07",
    "resource name": "114.115.169.185",
     "region code": "cn-north-1",
     "cloud_service_type_code": "hws.service.type.vpc",
     "resource_type_code": "hws.resource.type.ip",
     "resource spec code": "5 sbgp",
     "project code": "3f****400",
     "product id": "c1****55",
     "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
1,
"error code": "CBC.0000",
"error_msg": "success",
"total count": 2
}
```

Status Code

D 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
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 (Old)

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 6.3.2 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.

© FAQs							
1. All renewal 2. Resource re	rmation, see Manually Renewing a Resource, s and changes to pay-per-use will take effect. newal and change fees will be charged one b selected not to renew a resource, you will no	after the selected resources expire. Illing cycle after they are submitted.					
Enter a name, I Expires All Region All Manual Rene	Expires in 7 days Expires in 15 days		•	xpired Frozen			Set Renewal Date
Renew			el Renewal Batch Release Batch Expo	rt 🔽 Do not sho	ow resources that have or	rders pending payment	Export Renewal Prices C
	Name/ID	Service Type	Current Configuration	Region	Status	Validity Period	Operation
✓ □	hws.service.type.ec2name f47c0ec6b7604639bd21f6bfed7f5266	Elastic Cloud Server	FPGA High Performance[fp1c.8xlarge.11]3	CN South-Guangzhou	Provisioned	10 days Dec 06, 2020 23:59:	Renew Enable Auto-Renew More 🕶
~ □	hws.service.type.ebsname 6b8ef293ddea4f6ebdb863c9ec56b386	Elastic Volume Service	High IO	CN South-Guangzhou	Provisioned	10 days Dec 06, 2020 23:59:	Renew Enable Auto-Renew More 💌

NOTE

- 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.

1./	il renew esource	als and changes to pay-per-use renewal and change fees will be	ng a Resource, From Yearly/Monthly to Pay- will take effect after the selected resources es charged one billing cycle after they are subm rce, you will no longer receive renewal notific	nitted.				
		n, ID or order No.	Q	ACON 10F IL				Set Renewal
xpires	AL	Expires in 7 days Ex	pires in 15 days Expires in 30 days	Custom Status All Provisioned	Expired Frozen			
egion	All	•	Service Type All	•				
Mar	ual Rer	newals (43) Auto Rer	newals (1) Pay-per-Use After Exp	piration (0) Renewals Canceled (0)				
Mar				siration (0) Renewals Canceled (0) Cancel Renewal Batch Release Batch E	sport. Do not sho	w resources that have	orders pending payment	Export Renewal Prices
			newals (1) Pay-per-Use After Exp		rport 🔽 Do not she Region	ow resources that have Status	orders pending payment Validity Period	Export Renewal Prices
		Enable Auto-Renew	eewals (1) Pay-per-Use After Exp Change to Pay-per-Use After Explicition Service Type	Cancel Renewal Batch Release Batch E	Region			

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

1. All renev 2. Resource	wals and changes to pay-per-use will e renewal and change fees will be cha	a Resource, From Yearly/Monthly to Pay- take effect after the selected resources a arged one billing cycle after they are sub you will no longer receive renewal notif	mitted.				
Enter a nam	ie, ID or order No.	٩					Set Renewal I
xpires A	LE Expires In 7 days Expire	s in 15 days Expires in 30 days	Custom Status All Provisioned	Expired Frozen			
legion Al		Service Type All					
egion	n	Service type - Mit					
	mewals (43) Auto Renew		piration (0) Renewals Canceled (0) Cancel Renewal Batch Relates Batch E	port 🔽 Do not she	ow resources that have	orders pending payment	Export Renewal Prices
Manual Re	mewals (43) Auto Renew	als (1) Pay-per-Use After Ex		port Do not sho Region	ow resources that have Status	orders pending payment Validity Period	Export Reneval Prices
Manual Re Renew	Enable Auto-Renew Cha	nals (1) Pay-per-Use After Ex- inge to Pay-per-Use After Expiration Service Type	Cancel Renewal Batch Release Batch Ex	Region			

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.

enew	< Renewals							
1.If you	change resource specifications bef	fore the renewal period sta	rts, you can unsubscribe fror	n the resource, but y	you cannot cancel the	renewal.		
	Name/ID	Service Type	Current Configuration	Region	Status	Validity Period	Renewal Date	Auto-Renew
~	ecs-dontoperate-zhuananxu 1c4bdebe-1ac3-44d8-9d94-de7f	aff Elastic Cloud S	General Computing s3.s	AP-Singapore	Provisioned	18 days May 10, 2020	Jun 10, 2020 23:59:59 G	∉ None
Ren	ew on the standard renewal date,	, on the 1st of every month	at 23:59:59 GMT+08:00 M	odify				
	t Renewal Duration :							
month								
1 month	n 2 months 3 mo	onths 4 months	5 months	5 months	7 months 8	months 9 i	months 1 year 💼	
	Amount \$11.90 USD							

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.

NOTE

- 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 and coupons can be used for automatic payment. For details about how to use discounts or coupons during payment, see 12.2 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
-----------------	-----------------------

Paramet er	Manda tory	Value Range	Description
domain_i	Yes	А	Customer account ID. For details, see 12.1 How Do I

Paramet	Manda	Value	Description
er	tory	Range	
d		maximu m of 64 characte rs	Obtain customer_id or domain_id?

2. Request

Request Parameters

Paramet er	Mand atory	Туре	Value Range	Description
resource_i ds	Yes	List <stri ng></stri 	[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 11.2.2.1 Querying Customer's Yearly/Monthly Resources (Old).
period_ty pe	Yes	Integer	[2 3]	Period type. The value can be: • 2: Month • 3: Year
period_nu m	Yes	Integer	[1-11]	Number of periods.Month: 1 to 11Year: 1 to 3
isAutoPay	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
}
```

3. Response

Response Parameters

Parameter	Туре	Description
error_code	String	Status code. For details, see 4.
error_msg	String	Error description.
order_ids	List <string></string>	List of order IDs generated when resource subscription is renewed.
expiredResour ceIds	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.

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",
    "order_ids": ["xxxxxxxxxx"],
    "expiredResouceIds":[]
```

4. Returned Values

D 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 Statu s Code	Error Code	Description
200	CBC.0000	Success.

HTTP Statu s Code	Error Code	Description
200/40 0	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.99003144	You have orders in progress and cannot perform the current operation.
400	CBC.99003154	Subscription plus renewal too long. Select shorter renewal.
200	CBC.3144	You have orders in progress and cannot perform the current operation.
200	CBC.99003631	Resources that are being unsubscribed, deleted, or released cannot be renewed.
200	CBC.30010036	Renewal is only supported for primary resources.
200	CBC.30010069	The renewal period does not exist.
200	CBC.30050006	Automatic order payment failed.

11.2.2.3 Unsubscribing from Yearly/Monthly Resources (Old)

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 6.3.3 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.

Un	subscr	ibe					Name 👻	QC
		Name/ID	Service Type $ \!$	Current Configuration	Region ∇	Enabled On	Expiration Time $\overline{\!$	Operation
~		volume-B1 34f20978-c3dd-4ae	Elastic Volume S	High IO 10GB	AP-Hong-Hong	Nov 07, 2018 19:55:47	10 days	Unsubscribe
~		volume-T3 3cc5f6ae-498d-400	Elastic Volume S	High IO(30GB	Arrising Kong	Nov 07, 2018 19:48:21	10 days	Unsubscribe

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

	Name/ID	Service Type	Current Configuration	Region	Period	Consumed(USD)	Handling Fee	Unsubscripti
~	lijie20181123 49dd1802-ec07-4fc5-83d7-701	Elastic Volum	HongKong-;	1000	Nov 23, 2018 20:58:55 Nov 23, 2019 23:59:59	0.32	3.84	34.24
* Sele	ect Reason for Unsubsci	ription						
O Inc	orrect parameter selection duri	ng purchase	O Mo	re services purcha	sed than deployment requireme	ent		
🔿 Ser	vice tests completed			or service				
🔿 Ser	vice deployment requirements	not met	Irre	parable fault				
O Oth	er							
								\$20.40.UCD
						Actual Payment	2	\$38.40 USD
						Consumed	3	- \$0.32 USD
						Handling Fee	0	- \$3.84 USD
						Unsubscriptic	» \$34.2	24 USD
						Balance Returne	ed	\$34.24 USD
				* 🔽	I have confirmed that a handlir	ng fee will be charged f	or this unsubscrip	otion. View Details
							Ur	subscribe



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

Parameter	Mandato ry	Value Range	Description
domain_id	Yes	A maximum 64 characters	Customer account ID. For details, see 12.1 How Do I Obtain customer_id or domain_id?

2. Request

Request Parameters

Parameter	Mandato ry	Туре	Value Range	Description
resourceIds	Yes	List <string ></string 	[1-10]	Resource IDs. 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 based on is_main_resource in the response of the API described in 11.2.2.1 Querying Customer's Yearly/Monthly Resources (Old).
unSubType	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.
unsubscribe ReasonType	No	Integer	[1-5]	 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 If this parameter is not included in

Parameter	Mandato ry	Туре	Value Range	Description
				the request parameters, is set to "", or is set to null, no value is returned.
unsubscribe Reason	No	String	A maximu m of 512 character s	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
```

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

3. Response

Response Parameters

Parameter	Туре	Description
error_code	String	Status code. For details, see 4.
error_msg	String	Error description.
orderIds	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": ["xxxxxxxxx"]
}
```

4. Returned Values

D 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
200	CBC.0000	Success.
400	CBC.0100	Invalid input parameter.
403	CBC.0151	Access denied.
500	CBC.0999	Other errors.
200	CBC.3185	The cloud service can only be unsubscribed from as a whole.
200	CBC.30000053	Unsubscription not supported. The billing mode of the resource is Savings Plans.
200	CBC.30000067	Unsubscription not supported. This resource has been deleted or the subscription to this resource has not been synchronized to CBC.
200	CBC.7281	You cannot renew or cancel subscription because your account has been frozen.
200	CBC.99003012	Resource ID not found.
200	CBC.99003100	This operation is not allowed because some resources are included in your orders to be paid.
200	CBC.99003128	The resource does not have renewed periods or its renewed periods have taken effect, and the renewal periods cannot be unsubscribed from.
200	CBC.99006066	An error occurred during fee inquiry.
200	CBC.99003645	Unsubscription not supported for this cloud service type.
400	CBC.99003650	Unsubscription not allowed for this cloud service in the Marketplace.
200	CBC.99003656	Operation not allowed. Your resource has been frozen.

11.2.3 Managing Resource Packages

11.2.3.1 Querying the Package Usage (Old)

Function

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

NOTE

This API will be taken offline. For details about the new API for querying the usage in a package, see 6.4.1 Querying Resource Packages and 6.4.2 Viewing Resource 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 11-28
 Header parameter

Parameter	Manda tory	Value Range	Description
X-Languag e	No	A maximu m of 8 character s	 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: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ

Response

Response Parameters

Parameter	Туре	Value Range	Description
-----------	------	----------------	-------------

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_usag e_infos	list <packag eUsageInfo ></packag 	-	Package usage. For details, see Table 11-29.

 Table 11-29 Package usage information

Parameter	Туре	Value Range	Description
order_instance _id	String	A maximum of 255 characters	Identifier of a subscribed resource package.
resource_type _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
			noticates 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_c	Integer	-	Reset period. This parameter is valid only

Parameter	Туре	Value Range	Description
ycle			 when quota_reuse_mode is set to 1 (Resettable). 1: Hour 2: Day 3: Week 4: Month 5: Year
quota_reuse_c ycle_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 resettable 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	 End time. The value is in UTC format. If quota_reuse_mode is set to 1, the value is the end time of the reset period for the current time. If quota_reuse_mode is set to 2, the value is the time when the purchased instance becomes invalid.

Parameter	Туре	Value Range	Description
balance	Number	-	Remaining resources in a package.
total	Number	-	Total number of resources in a package.
measurement_ 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.

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: length
Date: response time
{
   "package usage infos": [
      {
          "order instance id": "01154-119701448-0",
          "resource_type_name": "cdn.cdn.flow",
          "quota reuse mode": 1,
          "quota reuse cycle": 1,
          "quota_reuse_cycle_type": 1,
          "start_time": "2019-12-26T02:00:00Z",
          "end time": "2019-12-26T02:24:11Z",
          "balance": 100,
          "total": 100,
          "measurement name": "Byte",
          "region code": "global-cbc-1"
          1
1
```

Returned Values

D NOTE

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

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

11.3 Bill Management

11.3.1 Querying Bill Summary (Old)

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.

NOTE

- You can query data from the past three years.
- This API will be brought offline. For details about the new API for Querying Summary Bills, see Querying Bill Summary.

Constraints

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

URI

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

The following table describes the parameters.

Table 11-30 Path parameters

Parameter	Mandat ory	Maximum Length	Description
domain_id	Yes	64	Customer account ID.

Parameter	Manda tory	Туре	Maximum Length	Description
cycle	Yes	String	7	Billing cycle of the expenditure summary bill,

Parameter	Manda tory	Туре	Maximum Length	Description
				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 4.1.1 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 resource type of a cloud service.
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 .
enterpriseProje ctId	No	String	-	 Enterprise project ID. 0: ID of a default project -1: The service does not support enterprise project management.
				If this parameter is not included or is left empty, it cannot be used as a filter criterion. If this parameter is set to null , it cannot be used as a filter criterion. This parameter cannot be set to "".

Request Message

Request Parameters

None

Example Request

```
GET
```

```
https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/customer/account-mgr/bill/mont
hly-sum?cycle=2018-05&type=0 HTTP/1.1
Content-Type: application/json
X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ
```

Response Message

Parameter	Туре	Description
error_code	String	Status code. For details, see Status Code. This parameter is returned only when a failure occurs.
error_msg	String	Error description. This parameter is returned only when a failure occurs.
currency	String	Currency. USD If the parameter is left blank, USD is used.
total_count	Integer	Number of the total records. The value must be greater than or equal to 0 .
bill_sums	List <billsumrecordinf o></billsumrecordinf 	Record information. For details, see Table 11-32.
total_amount	Bigdecimal	Total amount (tax included).
debt_amount	Bigdecimal	Total debt.
coupon_amount	Bigdecimal	Cash coupon amount.
cashcoupon_am ount	Bigdecimal	Flexi-purchase coupon amount (reserved).
storedcard_amo unt	Bigdecimal	Stored-value card amount (reserved).
debit_amount	Bigdecimal	Balance in the cash account.
credit_amount	Bigdecimal	Balance in the credit account.
measure_id	Integer	Unit.

Response Parameters

Parameter	Туре	Description	
		• 1: Yuan/Dollar	
		• 3: Fen/Cent	

Table 11-32 BillSumRecordInfo

Parameter	Туре	Description	
customer_id	String	Customer account ID.	
resource_type_ code	String	Resource type code. For example, the resource type code of ECS is hws.resource.type.vm .	
		NOTE If the cloud_service_type_code parameter is not passed in the request, the bill_sums response parameter will provide bill records categorized by cloud service type. The returned value for the resource type code is invalid.	
region_code	String	Cloud service region. This parameter is reserved.	
cloud_service_t ype_code	String	Cloud service type code. For example, the cloud service type code of OBS is hws.service.type.obs .	
consume_time	String	Expenditure data collection period. GMT+08:00 and format: YYYY-MM	
		Example: 2018-05	
pay_method	String	 Expenditure type. This field is reserved. If the request does not contain the parameter, cloud_service_type_code, and value 0 is returned, all resources of the service are billed on a yearly/monthly basis. If value 1 is returned, all resources are billed on a pay-per-use basis. If value 4 is returned, all resources are billed in savings plan-subscription 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,	

Parameter	Type Description	
		all resources are billed in savings plan-subscription 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.
consume_amou nt	Bigdecimal	Consumption amount, that is, the amount deducted from the customer's account. It includes the amount paid using cash coupons.
debt	Bigdecimal	Outstanding amount, that is, the amount due generated when fees are deducted from the customer account and the account balance is insufficient.
discount	Bigdecimal	Discounted amount.
measure_id	Integer	Unit. • 1: Yuan/Dollar • 3: Fen/Cent
bill_type	Integer	Bill type.0: Expenditure1: Unsubscription
account_details	List <balancetypepay></balancetypepay>	Total payment amount distinguished by expenditure type and payment method of an account.
		For details, see Table 11-33.
discount_detail _infos	List <discountdetailinfo< td=""><td>Discounted amount details.</td></discountdetailinfo<>	Discounted amount details.
_		For details, see Table 11-34. This parameter is not returned when bill_type is 1 .
enterpriseProje ctId	String	 Enterprise project ID. 0: ID of a default project null: The service does not support enterprise project management. If enterpriseProjectId is specified in the request, the bill_sums value in the response is the records by enterprise project ID. NOTE If the enterpriseProjectId parameter is not included in the request, the bill_sums response parameter will provide bill records categorized by non-enterprise project ID. Please note that this field is for reference purposes only.

Parameter	Туре	Description
balance_type_i d	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_amount	Bigdecimal	Deducted amount. Unit.

 Table 11-33
 BalanceTypePay

Table 11-34 DiscountDetailInfo

Parameter	Туре	Description
promotion_type	String	Discount type.
		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

Parameter	Туре	Description		
		610: Discount amount		
		611: savings plan		
	700: Promotion discount (for promotion, available only in yearly/monthly billing scenarios)			
		800: Bonus		
discount_amou nt	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

D NOTE

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

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

11.3.2 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.

NOTE

- This API will be taken offline. For details about the new API for querying resource usage details, see 7.2 Viewing Resource Usage Details.
- After a customer associates with an enterprise master in the unified accounting model, bill queries will return both bills before and after the association.
- You can query data from the past three years.

URI

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

The following table describes the parameters.

Table 11-35 URI parameters

Parameter	Manda tory	Maximu m Length of Charact ers	Description
-----------	---------------	---	-------------

Parameter	Manda tory	Maximu m Length of Charact ers	Description
domain_id	Yes	A maximu m of 64 character s	Customer account ID. For details, see 12.1 How Do I Obtain customer_id or domain_id?

Table 11-36 Request parameters

Parameter	Manda tory	Туре	Maximu m Length of Character s/Value Range	Description
cycle	Yes	String	A maximum of 8 characters	Billing cycle. The value is in "YYYY-MM" format. Example: 2020-01
cloudServiceT ypeCode	No	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 4.1.1 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 "".
resourceTypeC ode	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 4.1.2 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 Character s/Value Range	Description
regionCode	No	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 . 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 maximum of 256 characters	Resource instance ID.
payMethod	Yes	String	A maximum of 4 characters	 Payment method. The options are: 0: Yearly/monthly 1: Pay-per-use 10: Reserved instance
enterpriseProje ctId	No	String	A maximum of 64 characters	 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 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-Maxim um 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

Response Parameters

Parameter	Manda tory	Туре	Maximum 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.
monthlyRecord s	No	List <mont hlyRecord ></mont 	N/A	Resource usage record. For details, see Table 11-37.
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 11-37 MonthlyRecord

Parameter	Manda tory	Туре	Maximum 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 4.1.1 Querying Cloud Service Types.

Parameter	Manda tory	Туре	Maximum Length of Character s/Value Range	Description
regionCode	No	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	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 4.1.2 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	A maximum of 8,192 characters	Resource tag. Customers can set tags when managing resources.
consumeAmoun t	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.
measureId	No	Integer	[1-2]	Unit. 1. USD 2. Cent
enterpriseProjec tId	No	String	-	 Enterprise project ID. 0: ID of a default project null: The service does not support enterprise project management.

Parameter	Manda tory	Туре	Maximum Length of Character s/Value Range	Description
payMethod	No	String	[0-1]	Billing mode.0: Yearly/monthly1: Pay-per-use10: Reserved instance
officialAmount	No	Number	-	Standard price.

Example Response

```
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",
             "resInstanceId": null,
             "resourceName": null,
             "resourceTag": null,
             "consumeAmount": 0,
             "cycle": "2019-06",
             "measureId": 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",
```

```
"resInstanceId": "005****1b8c",
    "resourceName": null,
    "resourceTag": null,
    "consumeAmount": 10000,
    "cycle": "2019-06",
    "measureId": 3,
    "enterpriseProjectId": "0",
    "payMethod": "0",
         "officialAmount": 10
ł
    "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",
    "measureId": 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": "Ofa****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": "Off****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

🛄 NOTE

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

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

11.3.3 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 new API for querying resource expenditures, see 7.3 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.

Parameter	Manda tory	Maximu m Length of Charact ers	Description
domain_id	Yes	A maximu m of 64 character s	Customer account ID. For details, see 12.1 How Do I Obtain customer_id or domain_id?

Table 11-38 URI parameters

Table 11-39 Request parameters

Parameter	Manda tory	Туре	Maximu m Length of Character s	Description
startTime	Yes	String	A maximum of 10 characters	Start time. The format is <i>yyyy-MM-dd</i>.NOTEThe start time and end time must be in the same month.
endTime	Yes	String	A maximum of 10 characters	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 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 4.1.1 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 "".
regionCode	No	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 .

Parameter	Manda tory	Туре	Maximu m Length of Character s	Description
				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 maximum of 64 characters	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 maximum of 4 characters	Payment method. The options are: 0: Yearly/monthly 1: Pay-per-use
offset	No	Integer	[1-Maxim um 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.
resourceId	No	String	A maximum of 256 characters	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 """.
enterpriseProje ctId	No	String	A maximum of 64 characters	 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, it cannot be used as a filter criterion. If it is set to null, it can be used as a filter criterion. This

Parameter	Manda tory	Туре	Maximu m Length of Character s	Description
				parameter cannot be set to "".

Request

Request Parameters

None

Example Request

GET

https://bss-intl.myhuaweicloud.com/v1.0/{domain_id}/customer/account-mgr/bill/resfee-records?startTime=2019-08-01&endTime=2019-08-31&payMethod=0&cloudServiceTypeCo de=hws.service.type.ebs®ionCode=cn-north-1&orderId=orderId&offset=1&limit=10&re sourceId=hws.service.type.ebs&enterpriseProjectId=pjzV4N9Uq1LWMUgh3fYAhJqUbtd6Ad8y ALoRJeDoYGl0jWdZoS8UHbcGBqEin1Ia HTTP/1.1 Content-Type: application/json

X-Auth-Token: MIIPAgYJKoZIhvcNAQcCo...ggg1BBIINPXsidG9rZ

Response

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 11-40.
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

Response Parameters

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.
feeId	String	A maximum of 64 characters	Fee SN.
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.
amount	Number	-	Consumption amount, including the amount of cash coupons. The value is accurate to two decimal places.
measureId	Integer	-	Unit. 1. USD 2. Cent
usageAmount	Number	-	Usage.
usageMeasureId	Integer	-	Usage unit. You can call the API in 4.1.5 Querying Measurement Units to obtain the value.
freeResourceAmo unt	Number	-	Package usage.

 Table 11-40 ResFeeRecord

Parameter	Туре	Maximum Length of Characters	Description
freeResourceMea sureId	Integer	-	Unit of the package usage. You can call the API in 4.1.5 Querying Measurement Units to obtain the value.
cloudServiceType 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 . To obtain a specific service type, call the API in 4.1.1 Querying Cloud Service Types.
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 .
resourceTypeCod e	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 4.1.2 Querying Resource Types.
payMethod	String	A maximum of 32 characters	Payment method. The options are:0: Yearly/monthly1: 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 8,192 characters	Resource tag.
resourceName	String	A maximum of 256 characters	Resource name.
resourceId	String	A maximum of 128 characters	Resource ID.
feeSourceOperati on	Integer	-	Order Type 1: Subscription 2: Renewal 3: Change 4: Unsubscription 5: Pay-per-use

Parameter	Туре	Maximum Length of Characters	Description
			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)
enterpriseProjectI d	String	A maximum of 128 characters	 Enterprise project ID. 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.
rIAmount	Number	-	Reserved instance usage.
rIMeasureId	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,
	"feeId": null,
	"productId": null,
	"productName": null,
	"orderId": "orderId",
	"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":
"pjzV4N9	UQ1LWMUgh3fYAhJqUbtd6Ad8yALoRJeDoYGl0jWdZoS8UHbcGBqEin1Ia",
	"spot": null,
	"rIAmount": null,
	"rIMeasureId": 0,
	"officialAmount": 10
}]	
}	

Status Code

D NOTE

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

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

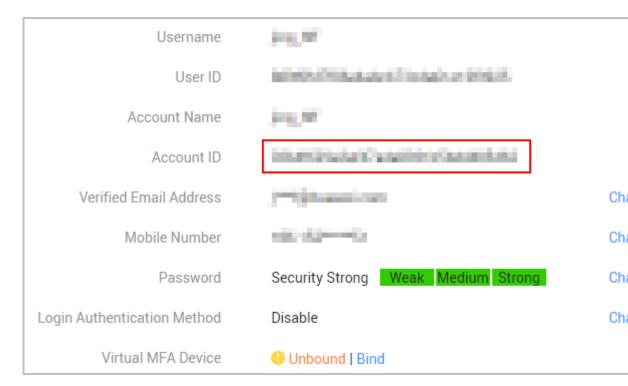
12 Appendix

- 12.1 How Do I Obtain customer_id or domain_id?
- 12.2 Support for Discounts or Coupons
- 12.3 Status Code
- 12.4 Error Codes
- 12.5 SDK Overview
- 12.6 SDK-related FAQ
- 12.7 Cipher Suites Allowed in TLS1.2 and TLS1.3
- 12.8 Price Inquiry API Guide

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 6.3.2 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 Codes and Retry Policies

D NOTE

To ensure reliability, the API call success rate should hit 99.99%. If errors arise during API access, it is recommended to implement a retry strategy. For short-term issues, retry up to three times within six hours. For persistent problems, attempt one retry at an interval of one minute over the same period.

Table 12-1 describes the HTTP status codes and retry policies.

Status Code	Message	Description	Retr y Polic y
100	Continue	Continue sending requests. This temporary response is used to inform the client that initial part of the request has been	Retry up to three

Table 12-1 HTTP status codes and retry policies

Status Code	Message	Description	Retr y Polic y
		received and has not yet been rejected by the server.	times withi n six hours
101	Switching Protocols	Switching protocols. The target protocol must be more advanced than the original one. For example, the protocol in use is switched to a later version of HTTP.	Retry is not perfo rmed.
200	ОК	The request was successfully processed. It is generally used for GET and POST requests.	Retry is not perfo rmed.
201	Created	The request has been fulfilled and has resulted in one or more new resources being created.	Retry is not perfo rmed.
202	Accepted	The request has been accepted for processing, but the processing has not been completed.	Retry is not perfo rmed.
203	Non-Authoritative Information	The request was successful but the response has been modified by a transforming proxy.	Retry is not perfo rmed.
204	NoContent	The server has successfully fulfilled the request, but did not return any response body. The status code is returned in response to an HTTP OPTIONS request.	Retry is not perfo rmed.
205	Reset Content	The server has fulfilled the request and requires the client to reset the content.	Retry is not perfo rmed.
206	Partial Content	The server has fulfilled a range GET request.	Retry up to three times withi n six hours
300	Multiple Choices	There are multiple options for the requested resource. The response contains a list of resource characteristics and addresses from	Retry is not perfo

Status Code	Message	Description	Retr y Polic y
		which the customer or customer agent (such as a browser) can choose the most appropriate one.	rmed.
301	Moved Permanently	The requested resource has been assigned with a new permanent URI. This new URI is contained in the response.	Retry is not perfo rmed.
302	Found	The requested resource resides temporarily under a different URI.	Retry is not perfo rmed.
303	See Other	The response to the request can be found under a different URI. It is expected to be accessed using a GET or POST method.	Retry is not perfo rmed.
304	Not Modified	The requested resource has not been modified. When the server returns this status code, it does not return any resources.	Retry is not perfo rmed.
305	Use Proxy	The requested resource must be accessed through a proxy.	
306	Unused	This HTTP status code is no longer used.	
400	BadRequest	Invalid request. Modify the request and retry.	
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 request has been rejected.	Retry is not

Status Code	Message	Description	Retr y Polic y
		The server has received and understood the request; yet it refused to respond, because the request is set to deny access. Do not retry the request before modification.	perfo rmed.
404	NotFound	The requested resource could not be found. Modify the request and retry.	Retry is not perfo rmed.
405	MethodNotAllowed	The request contains one or more methods not supported by the resource. Modify the request and retry.	Retry is not perfo rmed.
406	Not Acceptable	The server cannot fulfill the request according to the content characteristics of the request.	Retry is not perfo rmed.
407	Proxy Authentication Required	This status code is similar to 401, but the client must be authenticated using a proxy.	
408	Request Time-out	The client does not produce a request within the time that the server was prepared to wait. The client may repeat the request without modifications at any time later.	
409	Conflict	The request cannot be processed due to a conflict. The resource that the client attempts to create already exists, 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 requested resource has been deleted permanently.	

Status Code	Message	Description	Retr y Polic y
411	Length Required	The server fails to process the request which does not contain the Content-Length header field.	Retry is not perfo rmed.
412	Precondition Failed	The server does not meet one of the requirements that the requester puts on the request.	Retry is not perfo rmed.
413	Request Entity Too Large	The request is larger than that the server can process. The server may close the connection to prevent the client from continuously sending the request. If the server cannot process the request temporarily, the response will contain a Retry-After header field.	Retry is not perfo rmed.
414	Request-URI Too Large	The Request-URI is too long for the server to process.	Retry is not perfo rmed.
415	Unsupported Media Type	The server cannot process the media format in the request.	Retry is not perfo rmed.
416	Requested range not satisfiable	The requested range is invalid.	Retry is not perfo rmed.
417	Expectation Failed	The server fails to meet the requirements of the Expect request header field.	Retry is not perfo rmed.
422	UnprocessableEntit y	The request is well-formed but is unable to be processed due to semantic errors.	Retry is not perfo rmed.
429	TooManyRequests	Too many requests have been made within the allowed time. In this case, the client should retry after the time period specified in the Retry-After response header.	Atte mpt one retry at an interv al of one minut e

Status Code	Message	Description	Retr y Polic y
			withi n six hours
500	InternalServerError	The server is able to receive the request but unable to understand it.	Atte mpt one retry at an interv al of one minut e withi n six hours
501	Not Implemented	The server does not support the function required to fulfill the request.	Retry is not perfo rmed.
502	Bad Gateway	The server was acting as a gateway or proxy and received an invalid request from a remote server.	
503	ServiceUnavailable	The requested service is invalid. Modify the request and retry.	Retry is not perfo rmed.
504	ServerTimeout	The request cannot be fulfilled within a given amount of time. The response will reach the client only if the request carries a timeout parameter.	Atte mpt one retry at an interv al of one minut e withi n six hours ·
505	HTTP Version not	The server does not support the HTTP protocol	Retry is not

Status Code	Message	Description	Retr y Polic y
	supported	version used in the request.	perfo rmed.

12.4 Error Codes

Function Description

This section describes the error code and message for the operational APIs provided by Huawei Cloud for customers.

NOTICE

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

Error Code Structure Format

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

Error Codes

Table 12-2 Error codes

Status Code	Error Code	Error Message	Description
200	CBC.0000	Success.	Succeeded.
403	CBC.0156	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	Insufficient permissions. Contact your partner.

Status Code	Error Code	Error Message	Description
		your associated 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.
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.

Status Code	Error Code	Error Message	Description
200	CBC.3124	Resources have been unsubscribed from.	Resources have been unsubscribed from.
200	CBC.3144	Operation not supported. There is an order in progress for this resource.	You have orders in progress and cannot perform the current operation.
200	CBC.3128	The resource does not have renewed periods or its renewed periods have taken effect, and the renewal periods cannot be unsubscribed from.	The resource does not have renewed periods or its renewed periods have taken effect, and the renewal periods cannot be unsubscribed from.
200	CBC.3141	Cloud service quota or capacity is insufficient, or the resource specifications have changed.	Cloud service quota or capacity is insufficient, or the resource specifications have changed.
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	Budget setting permissions have	Budget setting permissions have been revoked. This reseller cannot

Status Code	Error Code	Error Message	Description
	33	been revoked. This reseller cannot set budgets.	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.
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 53	Insufficient permissions. Contact your enterprise master.	Insufficient permissions. Contact your enterprise master.
400	CBC.300000 10	Invalid order (maybe the order does not exist), unable to operate.	Operation not allowed because the order is invalid or does not exist.
400	CBC.300000 67	Unsubscription not supported. This resource has been deleted or the subscription to this resource has not been synchronized to CBC.	Unsubscription not supported. This resource has been deleted or the subscription to this resource has not been synchronized to CBC.
400	CBC.300000 52	The resource or account has been already frozen.	Operation not allowed. Your resource has been frozen.

Status Code	Error Code	Error Message	Description	
400	CBC.300000 53	Unsubscription not supported. The billing mode of the resource is Savings Plans.	Unsubscription not supported. The billing mode of the resource is Savings Plans.	
400	CBC.300100 35	resource deleted.	Resource deleted.	
400	CBC.300100 36	Renewal is only supported for primary resources.	Renewal is only supported for primary resources.	
400	CBC.300100 69	The renewal period does not exist.	The renewal period does not exist.	
400	CBC.300500 06	Automatic order payment failed.	Automatic order payment failed.	
400	CBC.300500 12	Duplicate resource ID.	There are duplicate resource IDs.	
400	CBC.5003	Insufficient balance.	Insufficient balance.	
400	CBC.500100 85	Customer association not allowed. The account of this partner has been restricted.	Customer association not allowed. The account of this partner has been restricted.	
400	CBC.500100 86	Customer association not allowed. This partner is a Huawei Cloud reseller, and the account of its associated distributor has been restricted.	Customer association not allowed. This partner is a Huawei Cloud reseller, and the account of its associated distributor has been restricted.	
400	CBC.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	Sorry, Huawei Cloud cannot review your real-name authentication information. Please contact your account manager for assistance.	

Status Code	Error Code	Error Message	Description
		account manager.	
400	CBC.709000 02	You can only create an enterprise member account through the HIS platform.	You can only create an enterprise member account through the HIS platform.
400	CBC.990000 04	An exception occurred when the customer authorized rights to the partner.	An exception occurred when the customer authorized rights to the partner.
400	CBC.990000 26	Incorrect verification code.	Incorrect verification code.
400	CBC.990000 27	Expired verification code.	Expired verification code.
400	CBC.990000 28	The email address already exists.	Invalid email address. Email already in-use.
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 cannot be resale.	The customer associated in Reseller model has no account balance.
400	CBC.990000 82	You have exceeded the maximum	Maximum verification code requests reached.

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

Status Code	Error Code	Error Message	Description
400	CBC.990031 16	The restriction to selected coupon regulates that the coupon cannot be used with the discount at the same time.	The restriction to selected coupon regulates that the coupon cannot be used with the discount at the same time.
400	CBC.990031 17	The selected discount is less than the minimum discount rate configured for the selected coupon. Note: For example, if the minimum discount rate configured for a coupon is 90% and the selected discount is less than 90% in all order lines, the discount cannot be used.	The selected discount is less than the minimum discount rate configured for the selected coupon. Note: For example, if the minimum discount rate configured for a coupon is 90% and the selected discount is less than 90% in all order lines, the discount cannot be used.
400	CBC.990031 24	Resources have been unsubscribed from.	Resources have been unsubscribed from.
400	CBC.990031 28	The resource does not have renewed periods or its renewed periods have taken effect, and the renewal periods cannot be unsubscribed from.	The resource does not have renewed periods or its renewed periods have taken effect, and the renewal periods cannot be unsubscribed from.
400	CBC.990031 41	Cloud service quota or capacity is insufficient, or the resource specifications have changed.	Cloud service quota or capacity is insufficient, or the resource specifications have changed.
400	CBC.990031 43	The product in this order is no longer available.	The product in this order is no longer available.
400	CBC.990031 44	Operation not supported. There is an order in progress for this resource.	You have orders in progress and cannot perform the current operation.

Status Code	Error Code	Error Message	Description	
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 maximum. 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.	
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	The billing mode of this product type cannot be converted into	

Status Code	Error Code	Error Message	Description	
		into pay-per-use.	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 pay-per-use.	
400	CBC.990036 11	The billing mode of pay-per-usage packages cannot be converted into pay-per-use.	The billing mode of pay-per-usage packages cannot be converted into pay-per-use.	
400	CBC.990036 22	The billing mode of solutions cannot be converted into pay-per-use.	The billing mode of solutions cannot be converted into pay-per-use.	
400	CBC.990036 23	Cannot be converted into the pay-per-use billing mode because there are transactions being processed.	Cannot be converted into the pay-per-use billing mode because there are transactions being processed.	
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,delete d, and released resources cannot be renewed.	Resources that are being unsubscribed, deleted, or released cannot be renewed.	
400	CBC.990036 34	Resources in discount packages must be renewed as a whole and cannot be renewed together with other resources.	Resources in discount packages must be renewed as a whole and cannot be renewed together with other resources.	
400	CBC.990036 38	Subscription to bandwidth add-on packages cannot be	Subscription to bandwidth add-on packages cannot be renewed.	

Status Code	Error Code	Error Message	Description	
		renewed.		
400	CBC.990036 43	Unsubscription 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.	
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 in KooGallery.	
400	CBC.990036 51	Unsubscription not supported. An operation associated with this instance is in progress.	Unsubscription not supported. An operation associated with this instance is in progress.	
400	CBC.990036 52	Unsubscription is not supported for DevCloud packages.	Unsubscription is not supported for DevCloud packages.	
400	CBC.990036 54	This renewal period cannot be canceled because it includes an add-on bandwidthpackage.	If there is a bandwidth add-on package, you cannot unsubscribe from the renewal period.	
400	CBC.990036 56	Operation not allowed. Your account has been frozen.	Operation not allowed. Your resource has been frozen.	
400	CBC.990040 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	The verification code is available, but the number of verification failures is greater than 3.	

Status Code	Error Code	Error Message	Description	
		is greater than 3.		
400	CBC.990040 10	The verification code entered is incorrect.	The verification code entered is incorrect.	
400	CBC.990050 03	Your balance is insufficient.	Insufficient balance.	
400	CBC.990050 10	Orders in this state cannot be canceled.	Orders in this state cannot be canceled.	
400	CBC.990050 36	The customer does not support payment via interface.	The customer does not support payment via interface.	
400	CBC.990050 26	The order is not a degrade or unsubscription order.	The order is not a degrade or unsubscription order.	
400	CBC.990050 42	The resource cannot be found or unsubscribed from.	The resource cannot be found or unsubscribed from.	
400	CBC.990060 06	Product not found.	Product not found.	
400	CBC.990060 16	Failed to query coupon information.	Failed to query coupon information.	
400	CBC.990060 17	Failed to query customer details.	Failed to query customer information.	
400	CBC.990060 24	Failed to query product information.	Failed to query product information.	
400	CBC.990060 50	Incorrect usage measurement unit.	Incorrect usage unit	
400	CBC.990060 55	The queried amount exceeds the upper limit.	The queried amount exceeds the upper limit.	
400	CBC.990060 66	An error occurred during the query of the fee information.	An error occurred during the query of the fee information.	
400	CBC.990060 73	Project not found.	Project not found.	
400	CBC.990060 74	The billing item does not exist.	The billing item does not exist.	
400	CBC.990060 93	Failed to obtain tax rate information.	Failed to obtain the tax rate.	
400	CBC.990080	Too many attempts.	Too many attempts.	

Status Code	Error Code	Error Message	Description	
	40			
400	CBC.990080 56	The maximum number of transactions allowed today has been reached.	The maximum number of transactions allowed today has been reached.	
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 sub-account.	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 12-3 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.

HUAWEI CLOUD API Explor	er -Select Product- • OpenAPI SDKs Error Codes Terratorm API Assistant API Diagnosis	Enter a key	word Q (a) My Collectio
	SDK Center The newly designed 5DK V3 of Huaver Courd provides a unified 5DK usage mode. You can add oppendencies or douglisted to call Huaver Courd APIs to access Huaver Courd applications, resources, and data	19	0
	Enter a keywood Q		2
All	Al 🛓 Java 🍓 Python 📲 Go 👐 Nodeuls 🔛 INET 🚳 PHP 🥥 C++		Recently Viewed SDKs
Operation Middleware	Operation		912
CodeArts Networking	Customer Operation Capabilities 3160		
Content Delivery & Edge C	🛓 🕐 🏭 🚳 🖓 Code Repository 😪 Repository	a ^g	Please log in to view
Compute Security & Compliance	 -dependency: -depe	0	Log in

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.

istomer Operation Capabi. * OpenAPI	SDKs Error Codes Terraform API Assistant API	Diagnosis Enter a keyword. Q. Dr My Collections Engl
Customer Operation Capabilities	ListServiceResources	Documentation Debugging Result Sample Code CLI Example Mock Data
Enter an API keyword. Q		
Obtain SDK Details 🛛 🖶 🏠	GET https://bss-intl.myhuaweicloud.com/v2/produc	Using the sample code in IDE requires SDK dependencies. To learn how to add dependencies, click: View SDK Details'
Registering a Customer (Partner)	Advanced Add to Collection > Debug	< Java Python Go NET NodeJs PHP > ··· ⑦ C Query AK ☐ View SDK De
Managing Customers (Partner)	Required parameters only	Huawei Cloud SDK OkHttp Unirest
Real-Name Authentication (Partner)	Default	17 String sk = " <your sk="">":</your>
Managing Coupons (Public) +		<pre>17 String sk = "cYOUR SK>"; 18 19 ICredential auth = new GlobalCredentials()</pre>
Managing Customer Budgets (Partner) 🔹 🔻	+ Region ③	20 .withAk(ak) 21 .withSk(sk);
Managing Accounts (Customer)	CN-Hong Kong -	<pre>22 23 BssintlClient client = BssintlClient.newBuilder()</pre>
Purchasing a Cloud Service (Public)		24 .withCredential(auth) 25 .withRegion(BssintlRegion.valueOf("ap-southeast-1"))
	Headers	26 .build();
Managing Yearly/Monthly Orders (Public) 🔻	* Authorization ③	<pre>27 ListServiceResourcesReguest request = new ListServiceResourcesRequest();</pre>
Managing Pay-Per-Use Resources (Part +	string	<pre>28 try { 29 ListServiceResourcesResponse response = client.listServiceResources(request);</pre>
		38 System.out.println(response.toString());
Managing Bills (Partner) 👻	X-Language 💿	<pre>31 } catch (ConnectionException e) {</pre>
	string	<pre>32 e.printStackTrace(); 33 } catch (ReduestTimeoutException e) {</pre>
Aanaging Bills (Customer) 👻		<pre>33 } catch (xequestimeoutexception e) { 34 e.printStackTrace(); </pre>
	Parameters	35 } catch (ServiceResponseException e) {
Managing Products (Public)	- service type code ③	<pre>36 e.printStackTrace();</pre>
	- service_dhe_cove O	37 System.out.println(e.getHttpStatusCode());

12.7 Cipher Suites Allowed in TLS1.2 and TLS1.3

The Internet Assigned Numbers Authority (IANA) is responsible for assigning numbers to all TLS cipher suites. The following table lists all secure IANA cipher suites that comply with Huawei's specifications. (The cipher suites recommended by IANA are not universally accepted by all standard organizations. Therefore, Huawei has conducted a screening process to select suites that meet the requirements of various organizations.) Cipher suites are classified into two security levels: high and medium. A cipher suite is considered high-level if it supports Perfect Forward Secrecy and AES symmetric encryption algorithms (GCM/CCM/CHACHA20-POLY1305). However, this criterion may change in the future based on the security level of TLS industry practices. Cipher suites that meet Huawei specifications but do not meet the high-level criteria are considered medium-level cipher suites.

Cipher Suites Allowed in TLS1.2

IANA Code	IANA Cipher Suite	Security Level
0x00,0x9E	TLS_DHE_RSA_WITH_AES_128_GC M_SHA256	High
0x00,0x9F	TLS_DHE_RSA_WITH_AES_256_GC	High

IANA Code	IANA Cipher Suite	Security Level
	M_SHA384	
0x00,0xA2	TLS_DHE_DSS_WITH_AES_128_GC M_SHA256	High
0x00,0xA3	TLS_DHE_DSS_WITH_AES_256_GC M_SHA384	High
0x00,0xA9	TLS_PSK_WITH_AES_256_GCM_SHA 384	MEDIUM
0x00,0xAA	TLS_DHE_PSK_WITH_AES_128_GC M_SHA256	High
0x00,0xAB	TLS_DHE_PSK_WITH_AES_256_GC M_SHA384	High
0xCC,0xAD	TLS_DHE_PSK_WITH_CHACHA20_P OLY1305_SHA256	High
0xC0,0x2B	TLS_ECDHE_ECDSA_WITH_AES_128 _GCM_SHA256	High
0xC0,0x2C	TLS_ECDHE_ECDSA_WITH_AES_256 _GCM_SHA384	High
0xC0,0x2F	TLS_ECDHE_RSA_WITH_AES_128_G CM_SHA256	High
0xC0,0x30	TLS_ECDHE_RSA_WITH_AES_256_G CM_SHA384	High
0xCC,0xA8	TLS_ECDHE_RSA_WITH_CHACHA20 _POLY1305_SHA256	High
0xCC,0xAC	TLS_ECDHE_PSK_WITH_CHACHA20 _POLY1305_SHA256	High
0xD0,0x01	TLS_ECDHE_PSK_WITH_AES_128_G CM_SHA256	High
0xD0,0x02	TLS_ECDHE_PSK_WITH_AES_256_G CM_SHA384	High
0xD0,0x05	TLS_ECDHE_PSK_WITH_AES_128_C CM_SHA256	High
0xC0,0x9E	TLS_DHE_RSA_WITH_AES_128_CC M	High
0xC0,0x9F	TLS_DHE_RSA_WITH_AES_256_CC M	High
0xCC,0xAA	TLS_DHE_RSA_WITH_CHACHA20_P OLY1305_SHA256	High
0xC0,0xA5	TLS_PSK_WITH_AES_256_CCM	MEDIUM

IANA Code	IANA Cipher Suite	Security Level
0xC0,0xA6	TLS_DHE_PSK_WITH_AES_128_CCM	High
0xC0,0xA7	TLS_DHE_PSK_WITH_AES_256_CCM	High
0xC0,0xAC	TLS_ECDHE_ECDSA_WITH_AES_128 _CCM	High
0xC0,0xAD	TLS_ECDHE_ECDSA_WITH_AES_256 _CCM	High
0xCC,0xA9	TLS_ECDHE_ECDSA_WITH_CHACH A20_POLY1305_SHA256	High

Cipher Suites Allowed in TLS1.3

IANA Code	IANA Cipher Suite	Security Level
0x13,0x01	TLS_AES_128_GCM_SHA 256	High
0x13,0x02	TLS_AES_256_GCM_SHA 384	High
0x13,0x03	TLS_CHACHA20_POLY1 305_SHA256	High
0x13,0x04	TLS_AES_128_CCM_SHA 256	High

According to RFC 8998, the SM series cryptographic algorithm suite is added to TLS1.3. The following two algorithm suites cannot be used in other TLS versions.

IANA Code	IANA Cipher Suite
0x00,0xC6	TLS_SM4_GCM_SM3
0x00,0xC7	TLS_SM4_CCM_SM3

12.8 Price Inquiry API Guide

12.8.1 Price Inquiry Example of Yearly/Monthly Products (Using the Price Calculator)

The request parameters for querying the price of a yearly/monthly product using an API can be obtained through the price calculator.

ECS is used as an example:

Region: CN North-Beijing4

AZ: General AZ

Billing Mode: Yearly/Monthly

CPU Architecture: x86

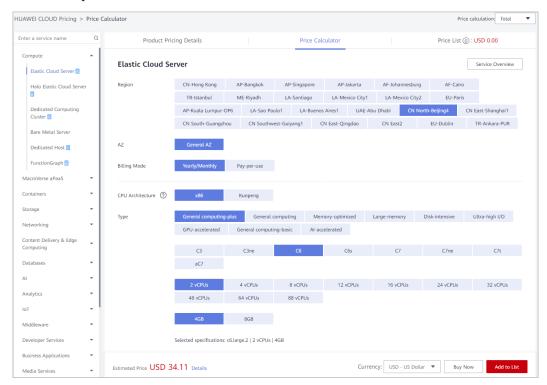
Type: General computing-plus C6 | 2 vCPUs | 4 GB

System Disk: General Purpose SSD 40 G

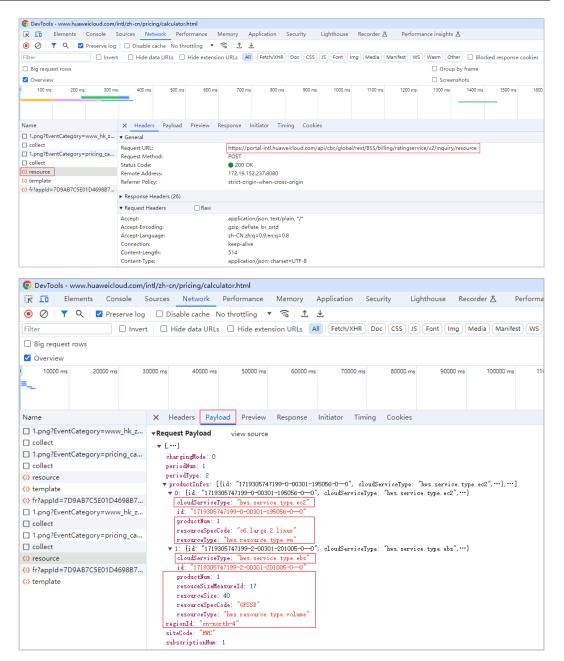
Required Duration: 1 Month

Quantity: 1

Step 1 Go to the Price Calculator page and press F12 to open the console. Set the parameters based on the example.



Step 2 Click Network > resource > Payload to view request parameters.



Step 3 Add the parameters obtained in Step 2 to the request.

As there are two products, an ECS and a disk, involved, two **product_infos** structures are required. The following shows an example of a **product_infos** structure.

```
{
    "project_id": "84c5*****fb2420",
    "product_infos": [
        {
            "id": "1",
            "cloud_service_type": "hws.service.type.ec2",
            "resource_type": "hws.resource.type.vm",
            "resource_spec": "c6.large.2.linux",
            "region": "cn-north-4",
            "period_type": 2,
            "period_num": 1,
            "
```

			"subscription_num": 1
		},	
		{	
			"id": "2",
			"cloud_service_type": "hws.service.type.ebs",
			"resource_type": "hws.resource.type.volume",
			"resource_spec": "GPSSD",
			"region": "cn-north-4",
			"resource_size": 40,
			"size_measure_id": 17,
			"period_type": 2,
			"period_num": 1,
			"subscription_num": 1
		}	
]		
1			
3			

Step 4 (Optional) Go to API Explorer and add **product_infos** to the request body. The same results will return as that obtained using the price calculator.

HUAWEI CLOUD API Explorer	Customer Operation Capabilitie * OpenAPI	SDKs Error Codes Endpoints Terraform API Assistant	API Diagnosis Enter a knyword. Q B My Collections English
88 Overview	Customer Operation Capabilities	ListRateOnPeriodDetail ③	Documentation Debugging Result Sample Code CLI Example Debugging History Mock Data
Change History	Enter an API keyword. Q	 Some APIs incur charges. View the billing description 	Summary
C charge riskey	Obtain SDK Details 🛛 🖨 ☆	of the service before debugging this API.	✓ Successful Duration: 494 ms Status Code: 200 Request Method: POST SDK: Download SDK & Guide
G Debugging History	Registering a Customer (Partner)	Do not show again	Request URL
All Products	Managing Customers (Partner)	POST https://bss-intl.myhuaweicloud.com/v2/bills/ratings/	https://bss-intl.ayhusweicloud.com/v2/bills/ratings/period-resources/subscribe-rate 🗇
1 My Products	Real-Name Authentication (Partner) *	Advanced Add to Collection Debug	Request
No data available.	Managing Coupons (Public)	Required parameters only	Header Body
	Managing Customer Budgets (Partn 👻		1 (
	Managing Accounts (Customer)	Encrypt sensitive parameters	2 "project_id": "c4c 99c2", 3 "product_infos": [4 (
	Purchasing a Cloud Service (Public) .	project_id ①	5 "id": "1",
	ListFreeResourceUsages	C4c2 i599c2 ~	6 "cloud_service_type: "hus.service.type.ec2", 7 "resource_type: "hus.resource.type.vm", 8 "resource_ser: "c6.large.linw".
	ListOnDemandResourceRatings	Body Edit Code	9 "region": "co.north-4", 10 "period type": 2,
	ListRateOnPeriodDetail	for project_id: ○ c4c: 319	
	ListRenewRateOnPeriod	project_id: ① c4c. 319 product_infos: [③	Response
	Managing Yearly/Monthly Orders (P 👻	{ +id: ⊙ 1	Header Body
	Managing Yearly/Monthly Orders (C *	cloud_service_type: twis.service.type.ec2 resource_type: This.service.type.vm	1 (2 "official_website_rating_result": { 3 "official_website_anount": 34.11,
	Managing Pay-Per-Use Resources *	 resource_spec: ③ c6.large.2.linux region: ③ cn-north-4 	4 "installment_official_website_amount": null, 5 "installment_period_type": null.
	Managing Bills (Partner)	available_zone: ① string resource_size: ③ number	6 "measure_id": 1, 7 "product_rating_results": [
	Managing Bills (Customer)	size_measure_id: ① number • period type: ② 2	8 { 9 "id": "i",
	Managing Enterprise Projects (Cust 👻	period_num: ① 1 subscription_num: ① 1	<pre>10</pre>
	Managing Products (Public) -) 🗈	12 "messure_lo":1, 13 "installment_official_website_amount": null, "installment mentod type": null

----End

12.8.2 Price Inquiry Example of Pay-Per-Use Products (Using the Price Calculator)

The request parameters for querying the price of a pay-per-use product using an API can be obtained through the price calculator.

ECS is used as an example:

Region: CN North-Beijing4

AZ: General AZ

Billing Mode: Pay-per-use

CPU Architecture: x86

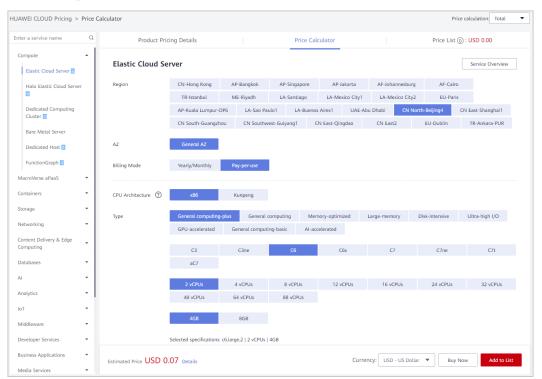
Type: General computing-plus C6 | 2 vCPUs | 4 GB

System Disk: General Purpose SSD 40 GB

Required Duration: 1 Month

Quantity: 1

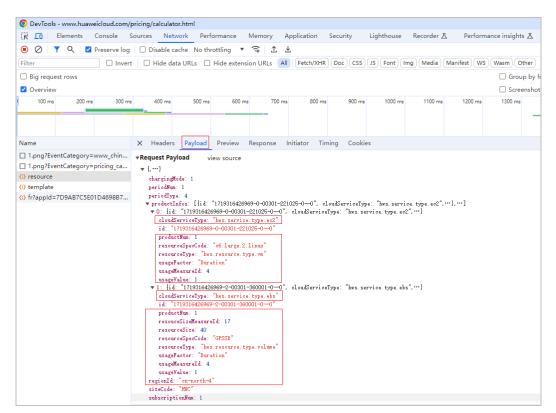
Step 1 Go to the Price Calculator page and press F12 to open the console. Set the parameters based on the example.



Step 2 Click Network > resource > Payload to view request parameters.

OevTools - www.huaweicloud.com/						
K D Elements Console	Sources Network Performance Me	emory Application Security Lighthouse Recorder 🛽 Performance insights 🛛				
🖲 🖉 🍸 🭳 🗹 Preserve log	g 🗌 Disable cache 🛛 No throttling 🔻 🗟	5 I F				
Filter Inver	rt 🗌 Hide data URLs 📄 Hide extension	URLs 🛛 Fetch/XHR Doc CSS JS Font Img Media Manifest WS Wasm Other 🗆 Blocked response cookie				
Big request rows		Group by frame				
Overview		Screenshots				
100 ms 200 ms 300 m	15 400 ms 500 ms 600 ms	700 ms 800 ms 500 ms 1000 ms 1100 ms 1200 ms 1300 ms 1400 ms 1500 ms 1 				
Name	X Headers Payload Preview Re	sponse Initiator Timing Cookies				
1.png?EventCategory=www_chin	▼ General					
1.png?EventCategory=pricing_ca Request URL:		https://portal.huaweicloud.com/api/cbc/global/rest/BSS/billing/ratingservice/v2/inquiry/resource				
(i) resource	Request Method:					
(i) template	Status Code:	● 200 OK				
() fr?appId=7D9AB7C5E01D4698B7	Remote Address:	172.19.152.237:8080				
	Referrer Policy:	strict-origin-when-cross-origin				
	► Response Headers (26)					
	▼ Request Headers					
	:authority:	portal.huaweicloud.com				
	:method:	POST				
	:path:	/api/cbc/global/rest/BSS/billing/ratingservice/v2/inquiry/resource				
	:scheme:	https				
	Accept:	application/json, text/plain, */*				
	Accept-Encoding:	gzip, deflate, br, zstd				
	Accept-Language:	zh-CN,zh;q=0.9,en;q=0.8				
	Content-Length:	632				
	Content-Type:	application/json; charset=UTF-8				





Step 3 Add the parameters obtained in Step 2 to the request.

As there are two products, an ECS and a disk, involved, two **product_infos** structures are required. The following shows an example of a **product_infos** structure.

```
{
  "project id": "c4c24******599c2",
"product_infos": [
{
          "id": "1",
         "cloud_service_type": "hws.service.type.ec2",
          "resource type": "hws.resource.type.vm",
          "resource spec": "c6.large.2.linux",
          "region": "cn-north-4",
          "usage_factor": "Duration",
          "usage_value": 1,
          "usage measure id": 4,
          "subscription num": 1
          "id": "2",
          "cloud_service_type": "hws.service.type.ebs",
          "resource_type": "hws.resource.type.volume",
          "resource spec": "GPSSD",
          "region": "cn-north-4",
          "resource_size": 40,
          "size measure id": 17,
          "usage factor": "Duration",
          "usage value": 1,
          "usage measure id": 4,
          "subscription num": 1
```

- }] }
- **Step 4** (Optional) Go to API Explorer and add **product_infos** to the request body. The same results will return as that obtained using the price calculator.

HUAWEI CLOUD API Explorer	Customer Operation Capabilitie + OpenAPI	SDKs Error Codes Endpoints Terraform API Assistant	API Diagnosis Enter a knyword. Q. Bg My Collections Engl	lish 区
S Overview Change History C Debugging History All Products W Products	Customer Operation Capabilities Enter an APP keyword. Q. Obtain SDK Details Q & & Registering a Customer (Partner) + Managing Customers (Partner) + Real-Name Authentication (Partner) +	ListOnDemandResourceRating: Some APIs incur charges. View the billing description of the service before debugging that API. Den of the water of the service before debugging that are of the service before and the serv	Documentation Debugging Result Sample Code CLI Example Debugging Heatory Mock Data Summary Conservation Duration: 416 ms Status Code: 200 Request Method: POST SDIC Download SDIC & Guide Request URL Nature: init: wybasericloud.com/2/hills/tating:/em-demod=servareer.com 0	
No data available.	Managing Coupons (Public) Managing Coupons (Public) Managing Customer Budgets (Partin	Required parameters only Default Excrypt lensible parameters (* -poject_st: 0 c4c2 319	Recurst Head T Body 1 ["smodet_life1": "ck2::::::::::::::::::::::::::::::::::::	σ
¢	ListRatochersdbelal ListRatochersdbelal Managing VashyMonthy Orders (P., – • Managing Pay-Per-Use Resources – • Managing Bits (Partner) • Managing Bits (Castomer) • Managing Driterphere Projects (Cant • Managing Products (Public) •	Cool service Jyme () has service type etc2 erecource, joe: () of two services type an erecource, joe: () of two services type an erecource, joe: () of two services services type () of two services type etc subge, two () 1 euclose, two () 1 euclose, two () two () 1 euclose, two () two () 1 euclose, two () two services type etc euclose, two () two () two services type etcs erecource two () two () two services type etcs erecource two () two () two endowed type etcs erecource two () two endowed type etcs erecource two () two () two endowed type etcs erecource two () two endowed type etcs erecource two () two endowed type etcs	Response Header Booy 1 "emount": 0.0721, "discourt_moment": 0.0721, "discourt_moment": 0.0721, "discourt_moment": 0.0721, "discourt_moment": 0.0721, "discourt_moment": 0.0721, "discourt_moment": 0.0721, "discourt_moment": 0.057, "discourt_moment": 0.057, "discourt_moment": 0.057, 1 "official_weight=_moment": 0.057, "discourt_moment": 0.057,	

----End