

**Operations Capability**

# **Developer Guide**

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**Date** 2023-09-28



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<https://www.huawei.com/en/psirt/vul-response-process>

For vulnerability information, enterprise customers can visit the following web page:

<https://securitybulletin.huawei.com/enterprise/en/security-advisory>

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# Contents

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<b>1 Change History</b>	<b>1</b>
<b>2 Development Scenarios</b>	<b>2</b>
<b>3 Product Management</b>	<b>4</b>
3.1 Querying Product Information	4
3.2 Querying Product Information	7
<b>4 Managing Accounts</b>	<b>8</b>
<b>5 Transaction Management</b>	<b>10</b>
5.1 Managing Coupons	10
5.2 Managing Yearly/Monthly Orders	11
5.3 Managing Yearly/Monthly Resources	13
<b>6 Managing Bills</b>	<b>16</b>
<b>7 Managing an Enterprise</b>	<b>18</b>
7.1 Managing Enterprise Projects	18
<b>8 Appendix</b>	<b>20</b>
8.1 HUAWEI CLOUD Environment and Address	20

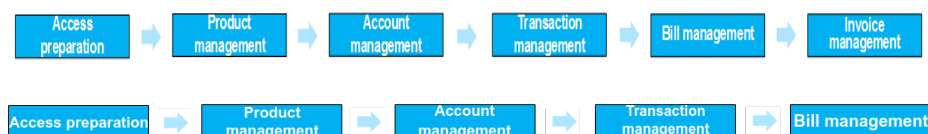
# 1 Change History

Description	Released On
This issue is the fourth official release. This release incorporates the following change: Added <b>Managing Enterprise Projects</b> .	2024-8-13
This issue is the third official release. This release incorporates the following changes: <ul style="list-style-type: none"><li>• Added <b>Managing Coupons</b>.</li><li>• Added Managing Resource Packages.</li></ul>	2024-5-28
This issue is the first official release.	2022-12-29

# 2 Development Scenarios

Huawei Cloud provides open APIs for scenarios, such as product management, transaction management, bill management, cost management, enterprise management, and invoice management. Customers can build their own sales platforms based on the operation capabilities.

The following figure illustrates the specific scenarios.



## NOTE

The preceding figure does not show the independent scenario. You can invoke this interface based on the site requirements.

## Product Management

Customers can query the cloud service or resource types, query resources by cloud service type, or query usage types, measurement units, and measurement unit number system on the self-built platform.

## Account Management

A customer can query its account balance. If the account balance is insufficient, the customer needs to top up the account in time.

## Transaction Management

Customers are allowed to query coupons issued by their partners, product price, package usage, resource packages, and resource package usage; purchase yearly/monthly resources; and manage orders.

## Bill Management

1. A customer can query its expenditure summary bills, which contain detailed expenditure records and can be used for reconciliation.

2. A customer can query its resource details. The resource details have a latency (a maximum of 24 hours).
3. A customer can query its usage details of each resource.

## **Enterprise Management**

1. Enterprise Project Management Service (EPS) provides a unified method to manage cloud resources and personnel by enterprise project.

# 3 Product Management

## 3.1 Querying Product Information

### Service Object

Customers

### Scenario Description

On the self-built platform, customers can:

- Query the cloud service or resource type.
- Query resources by cloud service type.
- Query the usage type, measurement unit, and measurement unit number system.

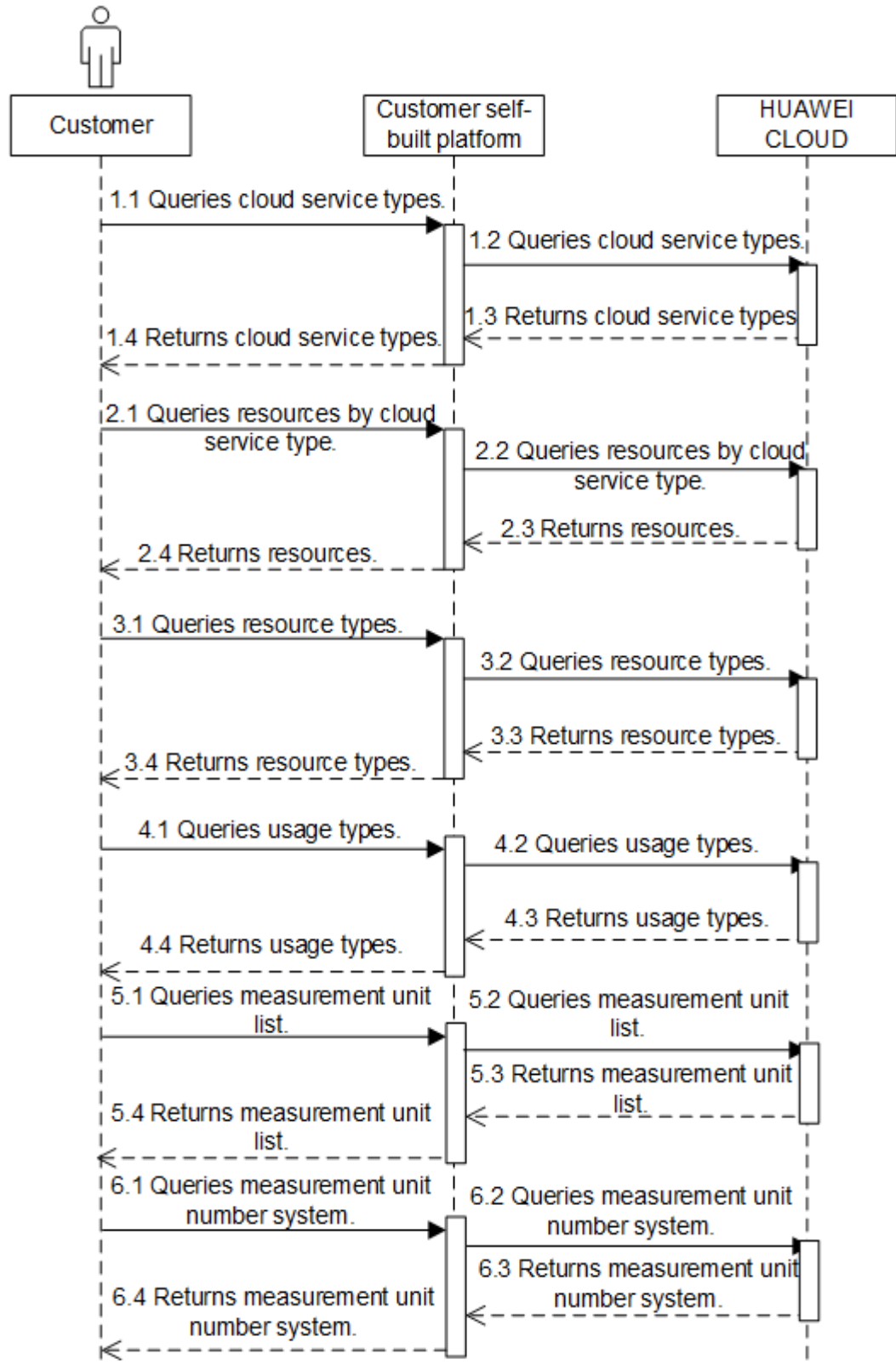
### Related APIs

API	API Definition
Querying cloud service types	<a href="https://support.huaweicloud.com/eu/api-occe/en-us_topic_0000001256679455.html">https://support.huaweicloud.com/eu/api-occe/en-us_topic_0000001256679455.html</a>
Querying resource types	<a href="https://support.huaweicloud.com/eu/api-occe/en-us_topic_0000001256519451.html">https://support.huaweicloud.com/eu/api-occe/en-us_topic_0000001256519451.html</a>
Querying resources by cloud service type	<a href="https://support.huaweicloud.com/eu/api-occe/qct_00003.html">https://support.huaweicloud.com/eu/api-occe/qct_00003.html</a>
Querying usage types	<a href="https://support.huaweicloud.com/eu/api-occe/qct_00004.html">https://support.huaweicloud.com/eu/api-occe/qct_00004.html</a>
Querying measurement units	<a href="https://support.huaweicloud.com/eu/api-occe/qct_00006.html">https://support.huaweicloud.com/eu/api-occe/qct_00006.html</a>



API	API Definition
Querying the measurement unit number system	<a href="https://support.huaweicloud.com/eu/api-oc/qct_00007.html">https://support.huaweicloud.com/eu/api-oc/qct_00007.html</a>

## API Invoking Process



## 3.2 Querying Product Information

### Service Object

Customer

### Scenarios

The self-built platform obtains the product prices on the HUAWEI CLOUD official website based on the product catalog.

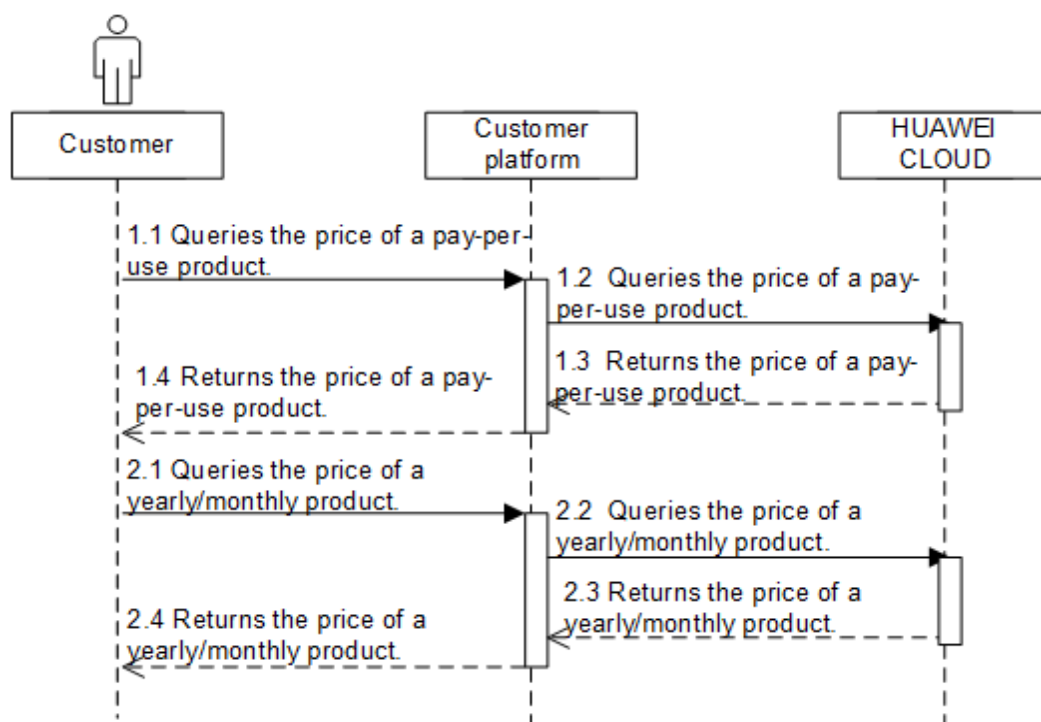
Customers can perform the following operations on the platform:

- Querying the price of a pay-per-use product by setting criteria
- Querying the subscription price of a yearly/monthly product by setting criteria

### Related APIs

API	API Definition
Querying the Price of a Pay-Per-Use Product	<a href="https://support.huaweicloud.com/eu/api-oc/bcloud_01001.html">https://support.huaweicloud.com/eu/api-oc/bcloud_01001.html</a>
Querying the Price of a Yearly/Monthly Product	<a href="https://support.huaweicloud.com/eu/api-oc/bcloud_01002.html">https://support.huaweicloud.com/eu/api-oc/bcloud_01002.html</a>

### API calling process



# 4 Managing Accounts

## Service Object

Customer

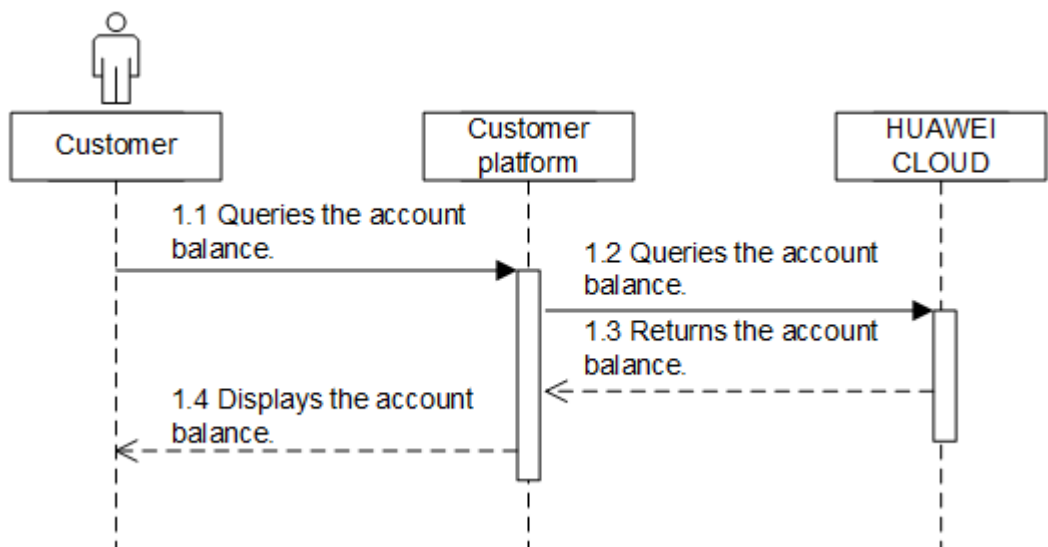
## Scenario Description

A customer can query its account balance. If the account balance is insufficient, the customer needs to top up the account in time.

## Related APIs

API	API Definition
Querying the account balance	<a href="https://support.huaweicloud.com/eu/api-oc/mac_00001.html">https://support.huaweicloud.com/eu/api-oc/mac_00001.html</a>

## API Invoking Process



## Development Suggestions

A customer can subscribe to and renew HUAWEI CLOUD services only when the account balance is sufficient. Therefore, the customer needs to top up its account in time to prevent the resources from being frozen or deleted.

# 5 Transaction Management

## 5.1 Managing Coupons

### Service Object

Customers

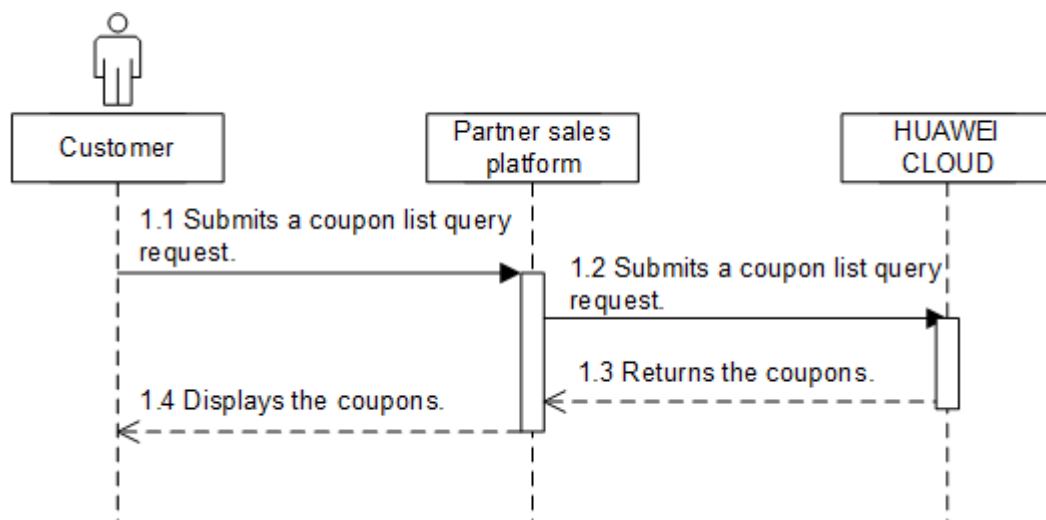
### Scenarios

Customers can query the coupons issued by their partners.

### Related APIs

API	API Definition
Querying Coupons	<a href="https://support.huaweicloud.com/eu/api-oc/mp_02001.html">https://support.huaweicloud.com/eu/api-oc/mp_02001.html</a>

### API calling process



## 5.2 Managing Yearly/Monthly Orders

### Service Object

Customers

### Scenario Description

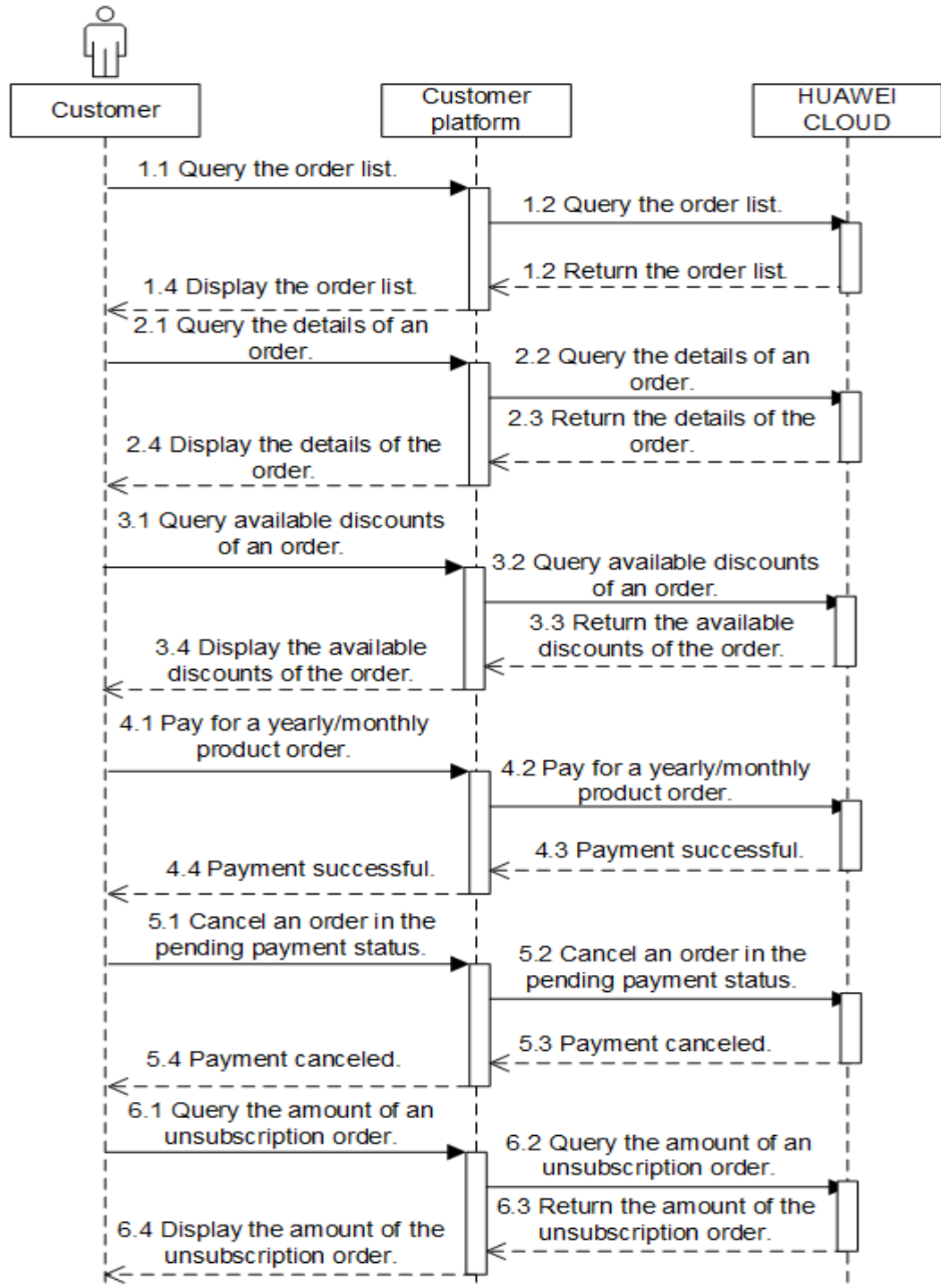
After purchasing yearly/monthly resources, a customer can perform the following operations on the self-built platform:

- Query the orders in different statuses such as pending approval, processing, canceled, completed, and pending payment.
- Pay or cancel orders in the pending payment state, and unsubscribe from yearly/monthly products in the subscribed state.
- Query the available discounts of an order.
- Query the resources and original orders where the refund of an unsubscription or degrade order is from.

### Related APIs

API	API Definition
Querying orders	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00013.html">https://support.huaweicloud.com/eu/api-oc/api_order_00013.html</a>
Querying order details	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00014.html">https://support.huaweicloud.com/eu/api-oc/api_order_00014.html</a>
Querying available discounts of an order	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00025.html">https://support.huaweicloud.com/eu/api-oc/api_order_00025.html</a>
Paying yearly/monthly product orders	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00030.html">https://support.huaweicloud.com/eu/api-oc/api_order_00030.html</a>
Canceling orders in the pending payment status	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00017.html">https://support.huaweicloud.com/eu/api-oc/api_order_00017.html</a>
Querying refunds for orders	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00020.html">https://support.huaweicloud.com/eu/api-oc/api_order_00020.html</a>

### API Invoking Process



### Development Suggestions

The prerequisite for this scenario is that the customer has purchased yearly/monthly cloud service resources.



## 5.3 Managing Yearly/Monthly Resources

### Service Object

Customers

### Scenario Description

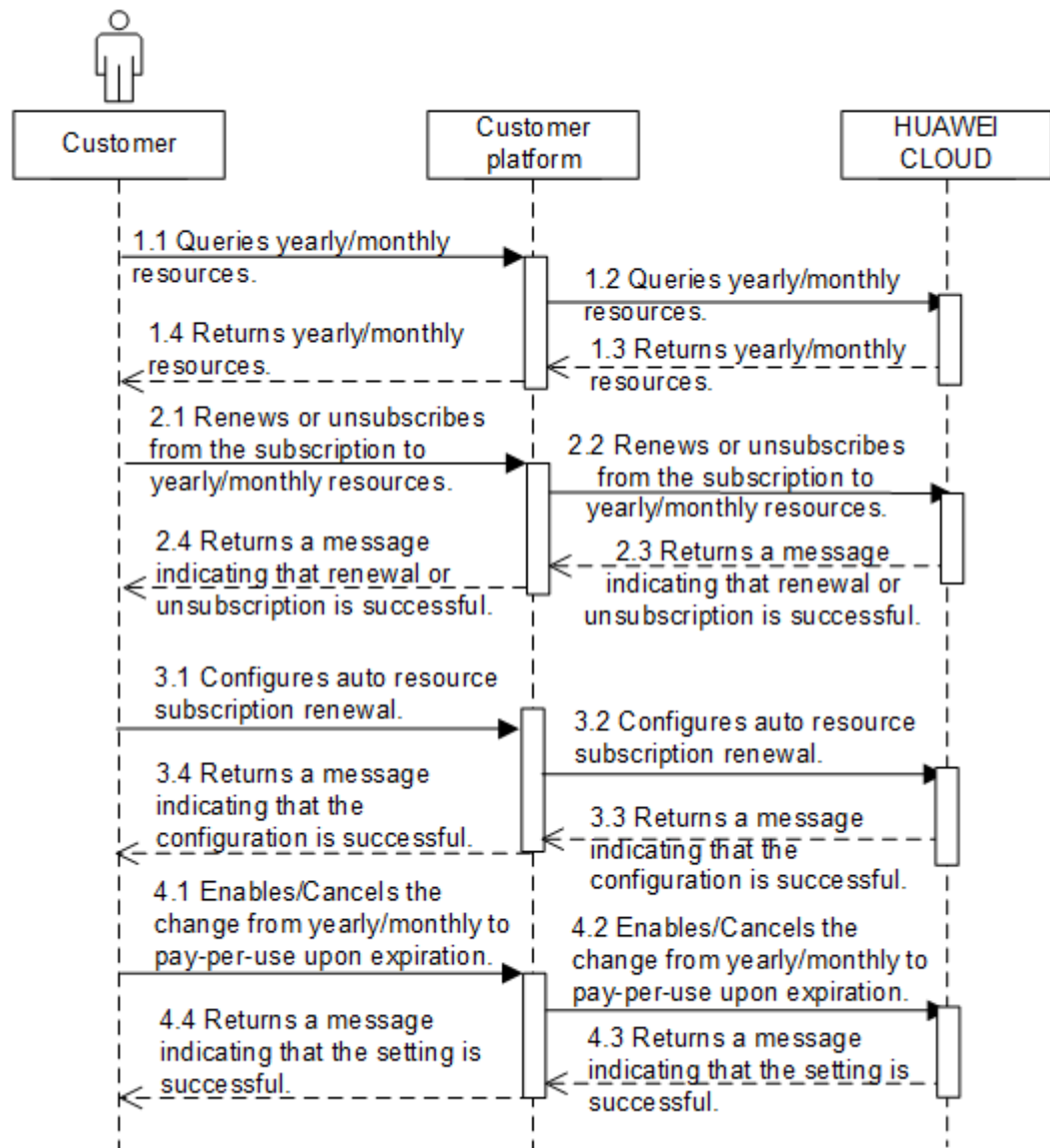
After purchasing yearly/monthly resources, a customer can perform the following operations on the self-built platform:

- Query the expiration date of orders in the completed status, and renew the subscription to orders or resources about to expire.
- Configure automatic renewal for purchased yearly/monthly resources.
- Query the resources and original orders where the refund of an unsubscription or degrade order is from.

### Related APIs

API	API Definition
Querying customer's yearly/monthly resources	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00021.html">https://support.huaweicloud.com/eu/api-oc/api_order_00021.html</a>
Renewing subscription to yearly/monthly resources	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00018.html">https://support.huaweicloud.com/eu/api-oc/api_order_00018.html</a>
Unsubscribing from yearly/monthly resources	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00019.html">https://support.huaweicloud.com/eu/api-oc/api_order_00019.html</a>
Enabling automatic subscription renewal for yearly/monthly resources	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00022.html">https://support.huaweicloud.com/eu/api-oc/api_order_00022.html</a>
Disabling automatic subscription renewal for yearly/monthly resources	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00023.html">https://support.huaweicloud.com/eu/api-oc/api_order_00023.html</a>
Enabling/Canceling the change from yearly/monthly to pay-per-use upon expiration	<a href="https://support.huaweicloud.com/eu/api-oc/api_order_00024.html">https://support.huaweicloud.com/eu/api-oc/api_order_00024.html</a>

### API Invoking Process



## Development Suggestions

- The prerequisite for this scenario is that a customer has purchased yearly/monthly cloud service resources.
- The resource IDs need to be obtained using the APIs for querying yearly/monthly resources because the management operations, such as subscribing to or unsubscribing from yearly/monthly resources, and enabling or disabling automatic subscription renewal, are performed based on resources.
- If a primary resource has attached resources and subscription to the primary resource is renewed or canceled, the system will also renew or cancel the subscription to the attached resources. An example of primary and attached resources are as follows: ECS is the primary resource, and its attached resources are EVS, VPC, EIP, and bandwidth.
- The fee of automatic subscription renewal for a product will be deducted at 03:00 seven days before the product is due. If the fee fails to deduct for the first time due to insufficient account balance, the system will attempt to

deduct the fee at 03:00 every day before the reserved product resource expires until the fee is deducted successfully.

# 6 Managing Bills

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## Service Object

Customer

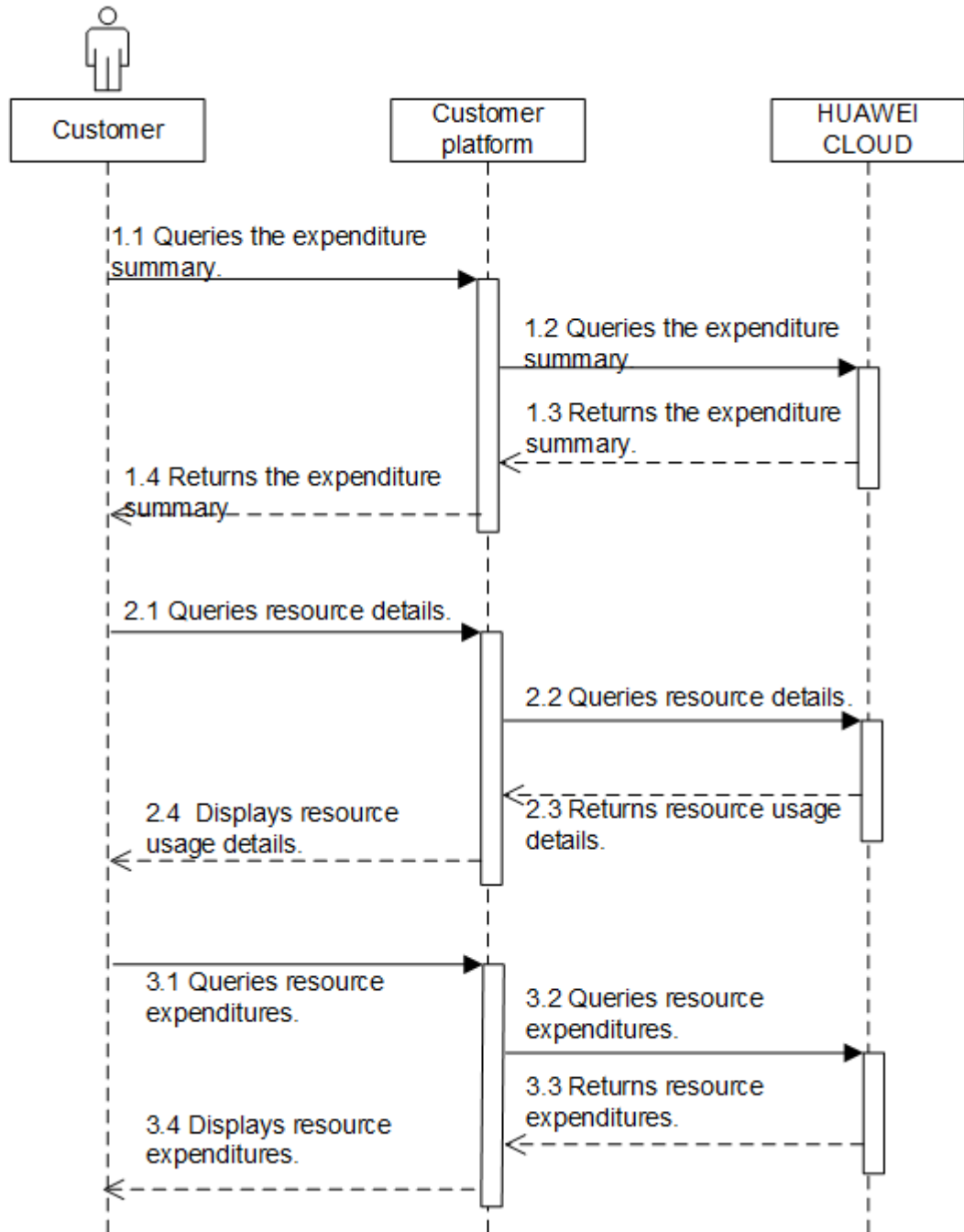
## Scenario Description

1. A customer can query its expenditure summary bills. The bills summarize consumption details by month and can be used for reconciliation. The expenditure summary contains only the data generated before 24:00 of the previous day.
2. Customers can query their usage details of each resource. The resource details have a latency (a maximum of 24 hours).
3. A customer can query its usage details of each resource.

## Related APIs

API	API Definition
Querying Summary Bills	<a href="https://support.huaweicloud.com/eu/api-occe/en-us_topic_0109708206.html">https://support.huaweicloud.com/eu/api-occe/en-us_topic_0109708206.html</a>
Viewing resource usage details	<a href="https://support.huaweicloud.com/eu/api-occe/mbc_00003.html">https://support.huaweicloud.com/eu/api-occe/mbc_00003.html</a>
Viewing resource expenditures	<a href="https://support.huaweicloud.com/eu/api-occe/mbc_00004.html">https://support.huaweicloud.com/eu/api-occe/mbc_00004.html</a>

## API Invoking Process



# 7 Managing an Enterprise

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## 7.1 Managing Enterprise Projects

### Service Object

Customers

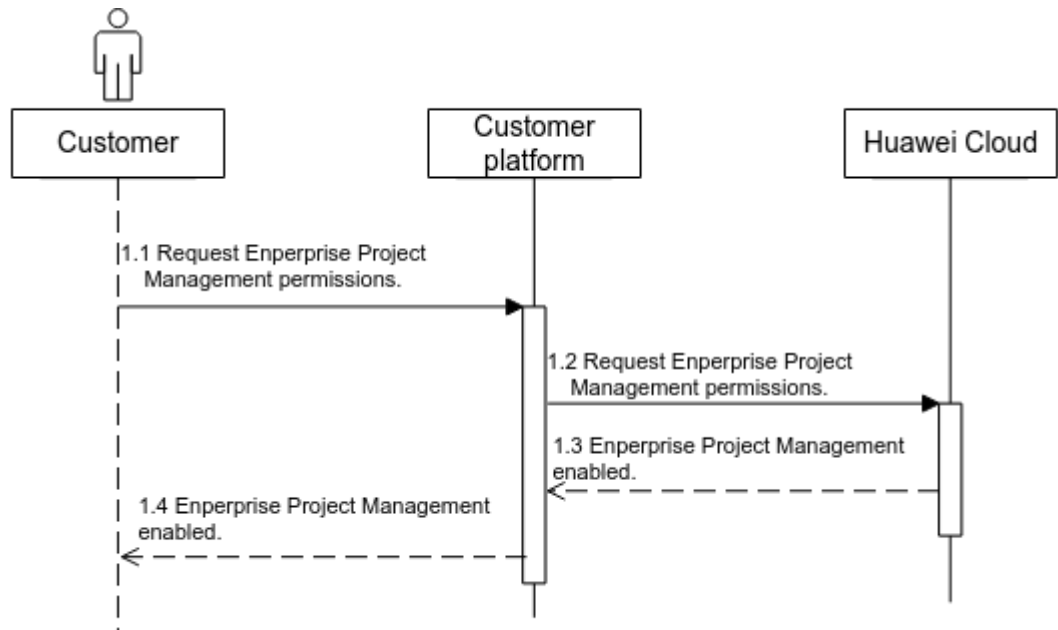
### Scenario Description

With Enterprise Project Management, you can manage cloud resources and personnel by enterprise project.

### Related APIs

API	Link
Enabling Enterprise Project Management	<a href="https://support.huaweicloud.com/eu/api-oc/ep_00022.html">https://support.huaweicloud.com/eu/api-oc/ep_00022.html</a>

## Invoking Process



# 8 Appendix

## 8.1 HUAWEI CLOUD Environment and Address

Environment	Description	Address
CBC request address	Indicates the path (endpoint) provided by CBC to access the customer operation capability. The customer adds the address and the URI of a specific API to access the API.	<a href="https://bss.myhuaweicloud.eu">https://bss.myhuaweicloud.eu</a>
My Account	Common customers can view with basic account information, perform user authentication, configure preferences, and view their privileges and recommended operation management pages.	<a href="https://account.eu.huaweicloud.com/usercenter/#/accountindex/accountInfo">https://account.eu.huaweicloud.com/usercenter/#/accountindex/accountInfo</a>
Billing Center	HUAWEI CLOUD provides the operation management UI for common customers to recharge, renew, view orders, view financial information, view vouchers and discounts, apply for contracts, issue invoices, and perform unsubscription and changes.	<a href="https://account.eu.huaweicloud.com/usercenter">https://account.eu.huaweicloud.com/usercenter</a>
Console	Common customers can log in to the HUAWEI CLOUD management console to view, purchase, and use HUAWEI CLOUD services.	<a href="https://console.eu.huaweicloud.com/console/">https://console.eu.huaweicloud.com/console/</a>



Environment	Description	Address
My Credential	The <b>My Credential</b> page centrally displays customers' security credentials and enables users to manage their credentials. On the <b>My Credential</b> page, customers can view the project ID and account name, change the verified mobile number and email address, change the password, and manage access keys (AK/SK).	<a href="https://console.eu.huaweicloud.com/iam/#/myCredential">https://console.eu.huaweicloud.com/iam/#/myCredential</a>