

# Cloud Service Engine

## Billing

**Issue** 01  
**Date** 2025-11-25



**Copyright © Huawei Cloud Computing 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 Cloud Computing Technologies Co., Ltd.

## **Trademarks and Permissions**



HUAWEI and other Huawei trademarks are the property 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 Cloud 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 Cloud Computing Technologies Co., Ltd.**

Address: Huawei Cloud Data Center Jiaoxinggong Road  
Qianzhong Avenue  
Gui'an New District  
Gui Zhou 550029  
People's Republic of China

Website: <https://www.huaweicloud.com/intl/en-us/>

---

# Contents

---

<b>1 Overview.....</b>	<b>1</b>
<b>2 Registry/Configuration Center.....</b>	<b>2</b>
2.1 Billing Overview.....	2
2.2 Billing Mode.....	2
2.2.1 Billing Mode Overview.....	2
2.2.2 Pay-per-Use.....	3
2.3 Billing Items.....	6
2.4 Bills.....	7
2.5 Arrears.....	8
2.6 Stopping Billing.....	9
<b>3 Exclusive ServiceComb Engines.....</b>	<b>10</b>
3.1 Billing Overview.....	10
3.2 Billing Modes.....	10
3.2.1 Billing Mode of Exclusive ServiceComb Engines.....	11
3.2.2 Pay-per-Use.....	11
3.3 Billing Items.....	14
3.4 Bills.....	14
3.5 Arrears.....	15
3.6 Stopping Billing.....	16

# 1 Overview

---

Cloud Service Engine (CSE) provides both open-source enhanced Nacos engines and Huawei Cloud-developed ServiceComb engines. These engines are billed separately.

- For details about Nacos engines' billing items, modes, cycles, and formulas, and pricing details, see [Registry/Configuration Center](#).
- For details about exclusive ServiceComb engines' billing items, modes, cycles, and formulas, and pricing details, see [Exclusive ServiceComb Engines](#).

# 2 Registry/Configuration Center

---

## 2.1 Billing Overview

This section describes the billing modes and items, renewal, and arrears of registry/configuration centers.

- **Billing Mode**  
Registry/Configuration centers provide pay-per-use billing. Pay-per-use is postpaid. You use registry/configuration centers and then pay as billed for your usage duration. For details, see [Billing Mode Overview](#).
- **Billing Items**  
Registry/Configuration centers are billed by Nacos instances and capacity units. For details, see [Billing Items](#).
- **Bills**  
Go to **Billing Center** > **Billing** to check your transactions and bills. For details, see [Bills](#).
- **Arrears**  
If you have a past due balance on your account, your account falls into arrears. As a result, registry/configuration centers may not run properly, so make sure that your account balance is sufficient. For details, see [Arrears](#).
- **Stopping Billing**  
To stop using registry/configuration centers, delete them to avoid further fees. For details, see [Stopping Billing](#).

### Pricing

For the prices, see [Registry/Configuration Center Pricing Details](#).

## 2.2 Billing Mode

### 2.2.1 Billing Mode Overview

Registry/Configuration centers provide pay-per-use billing. Pay-per-use is postpaid. You use registry/configuration centers and then pay as billed for your usage

duration. The fees are calculated in seconds and billed by the hour. Pay-per-use allows you to flexibly adjust resource usage. You do not need to provision resources in advance, or end up with excessive or insufficient resources. This mode is useful for traffic bursts.

**Table 2-1** Billing mode

<b>Billing Mode</b>	Pay-per-use
<b>Payment Mode</b>	Postpaid Billed by your usage duration
<b>Billing Cycle</b>	Calculated in seconds and billed by the hour
<b>Billing Items</b>	<ul style="list-style-type: none"> <li>• Registry/Configuration center Nacos instance</li> <li>• Registry/Configuration center Nacos capacity unit</li> </ul>
<b>Billing for Frozen Engines</b>	You will not be billed for frozen engines.
<b>Billing Mode Change</b>	Not allowed
<b>Specification Change</b>	Allowed
<b>Application Scenario</b>	Useful when you want more flexibility and control over resource usage

## 2.2.2 Pay-per-Use

Pay-per-use is postpaid and useful if you do not want upfront payments or long-term commitments. This section describes the pay-per-use billing rules of registry/configuration centers.

### Application Scenario

Pay-per-use billing is useful for short-term, bursty, or unpredictable workloads that cannot tolerate any interruptions, such as e-commerce flash sales, testing, and scientific computing.

### Billing Items

Select the registry/configuration center Nacos engine specification that matches your total number of microservice instances. You will be billed for the following specifications on a pay-per-use basis:

**Table 2-2** Billing items

Billing Item	Description
Registry/Configuration center Nacos instance	Fixed fee of the registry/configuration center Nacos instance
Registry/Configuration center Nacos capacity unit (50 microservice instances)	Fee of registry/configuration center Nacos management capacity. One capacity unit handles 50 microservice instances. <b>NOTE</b> A microservice instance is the minimum running and deployment unit of a microservice. It usually corresponds to a pod in CCE or an independent process of an ECS microservice.

## Billing Cycle

In pay-per-use mode, fees are calculated in minutes and billed by the hour (GMT +08:00:00). Once settlement is complete, a new billing cycle starts. The actual fees start generating when an engine is created and ends when it is deleted.

For example, you purchased a registry/configuration center at 08:05:00 and deleted it at 08:55:00. The billing cycle was from 08:00:00 to 09:00:00 with fees generated from 08:05:00 to 08:55:00. You were billed for 3,000s.

## Billing Example

You purchased a pay-per-use registry/configuration center Nacos engine (500 microservice instances) at 09:59:30 on April 18, 2023 and then deleted it at 10:45:46 on the same day. You were billed for:

- Usage of 30 seconds from 09:59:30 to 10:00:00 (Bill:  $(0.105 + 0.04 \times 10)/3600 \times 30 = \text{USD}0.004$ )
- Usage of 2,746 seconds from 10:00:00 to 10:45:46 (Bill:  $(0.105 + 0.04 \times 10)/3600 \times 2746 = \text{USD}0.39$ )

You were billed for each usage duration:  $0.004 + 0.39 = \text{USD}0.39$ . [Table 2-3](#) describes the billing formulas. The price of a resource listed in the product pricing details is per hour, so divide it by 3600 to obtain the price for each second.

**Table 2-3** Billing formulas

Billing Item	Billing Formula	Unit Price
Registry/ Configuration center Nacos instance	Unit price x Usage duration	See <a href="#">Registry/Configuration Center Pricing Details</a> .
Registry/ Configuration center Nacos capacity unit (50 microservice instances)	Unit price x 10 x Usage duration	See <a href="#">Registry/Configuration Center Pricing Details</a> .

**NOTICE**

The prices in the example are for reference only. The actual calculation is subject to the prices in [Registry/Configuration Center Pricing Details](#).

### Price Change After Specification Change

If you change the specifications of a pay-per-use engine, the original order will become invalid and a new order will be placed. You will be billed based on the new specifications.

If you change instance specifications within a given hour, multiple billing records will be generated. The start time and end time of each record correspond to when different specifications took effect within the hour.

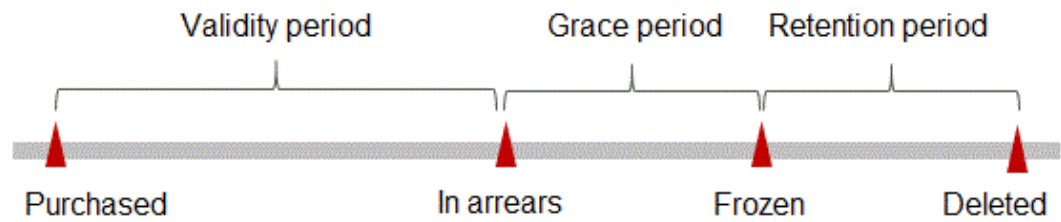
For example, if you purchased a registry/configuration center Nacos engine at 09:00:00 with 500 microservice instances and upgraded to 1000 microservice instances at 09:30:00, two billing records would be generated for the period from 09:00:00 and 10:00:00.

- There would be one record for 09:00:00 to 09:30:00, for the original specifications.
- Then there would be a second record for 09:30:00 to 10:00:00, for the new specifications.

### Impact of Arrears

**Figure 2-1** shows the statuses a pay-per-use resource can go through throughout its lifecycle. After a resource is purchased, it enters a valid period and runs normally during this period. If your account falls into arrears, the resource enters a grace period and then a retention period.

**Figure 2-1** Lifecycle of a pay-per-use resource



### Arrears Alert

The system will deduct fees for pay-per-use resources at the end of each billing cycle. When a Huawei Cloud account is in arrears, we will notify the account creator by email, SMS, and internal message.

### Impact

If your account balance is insufficient, your account falls into arrears. However, your pay-per-use resources will not be stopped immediately. There will be a grace period before they are stopped. You are still responsible for expenditures generated during the grace period. You can view the charges on the **Billing Center > Overview** page and pay any past due balances as needed.

If you do not settle your account balance before the grace period ends, the resource enters a retention period and its status becomes **Frozen**. You cannot perform any operations while it is in the retention period.

If you do not settle your account balance before the retention period ends, the resource will be deleted and data cannot be restored.

#### NOTE

Both the grace and retention periods are 15 days.

## 2.3 Billing Items

### Description

You are billed for your selected specifications.

For the prices, see [Registry/Configuration Center Pricing Details](#).

**Table 2-4** Billing items

Billing Item	Description	Billing Mode	Billing Formula
Registry/ Configuration center Nacos instance	Fixed fee of the registry/ configuration center Nacos instance	Pay-per-use	Unit price x Usage duration  See <a href="#">Registry/ Configuration Center Pricing Details</a> .
Registry/ Configuration center Nacos capacity unit (50 microservice instances)	Fee of registry/ configuration center Nacos management capacity. One capacity unit handles 50 microservice instances.	Pay-per-use	Unit price x 10 x Usage duration  See <a href="#">Registry/ Configuration Center Pricing Details</a> .


## 2.4 Bills

View your resource usage and bills for different billing cycles on the **Billing** page in the Billing Center.

### Bill Reporting Period

The usage of pay-per-use resources is reported to the billing system at fixed intervals. Pay-per-use resources are billed by the hour, day, or month, depending on usage type. Pay-per-use registry/configuration centers are billed by the hour. For example, if you delete a registry/configuration center at 08:30:00, fees generated from 08:00:00 to 09:00:00 are deducted at around 10:00:00. On the **Billing > Expenditure Items** page of the Billing Center, **Expenditure Time** lists the usage duration of your pay-per-use resources.

### Viewing Bills of a Specific Resource

- Step 1** Log in to the [management console](#).
- Step 2** Choose **Middleware > Cloud Service Engine**.
- Step 3** In the left navigation pane, choose **Registry/Configuration Center** and click a Nacos engine.
- Step 4** On the engine instance page, copy the engine ID.
- Step 5** Go to [Billing Center > Billing > Expenditure Details](#).
- Step 6** Select **Resource ID** as the filter condition, paste the resource ID copied in **Step 4**, and click  to search for the bill of the resource.

By default, the bill details are displayed by usage and billing cycle. Choose other display options as needed.

----End

## 2.5 Arrears

If you have a past due balance on your account, your account falls into arrears. As a result, registry/configuration centers may not run properly, so make sure that your account balance is sufficient.

### Reasons

A pay-per-use registry/configuration center has been running for some time, and the account balance has become insufficient.

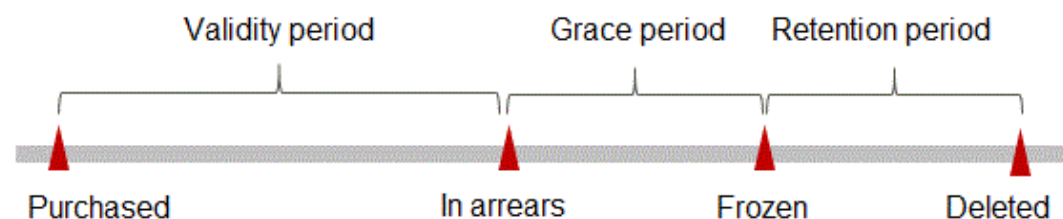
### Impact

If your account balance is insufficient, your account falls into arrears. However, your pay-per-use resources will not be stopped immediately. There will be a grace period before they are stopped. You are still responsible for expenditures generated during the grace period. You can view the charges on the **Billing & Costs > Billing Center > Overview** page and pay any past due balances as needed.

If you do not settle your account balance before the grace period ends, the resource enters a retention period and its status becomes **Frozen**. You cannot perform any operations while it is in the retention period.

If you do not settle your account balance before the retention period ends, the resource will be deleted and data cannot be restored.

Figure 2-2 Lifecycle of a pay-per-use resource



### Avoiding and Handling Arrears

Top up your account in time.

Delete unnecessary resources to avoid unexpected fees.

Configure the **Balance Alert** function on the **Billing Center > Overview** page. When the total amount of the available quota, general cash coupons, and cash coupons is lower than the alert threshold, the system automatically notifies you by SMS and email.

To prevent your account from falling into arrears, top up your account in time.

## 2.6 Stopping Billing

### Pay-per-Use Resources

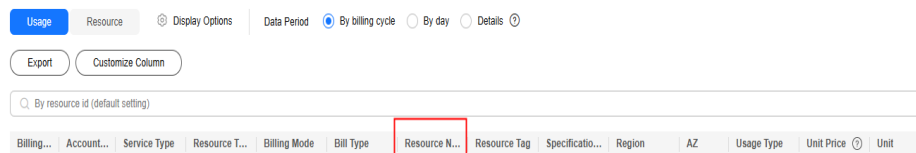
If a pay-per-use registry/configuration center is no longer needed, delete it to stop billing.


### Searching for Registry/Configuration Centers from Bills and Stopping Billing

Obtain the names of registry/configuration centers from the bill, and then locate and delete them:


**Step 1** Go to [Billing Center > Billing > Expenditure Details](#).

**Step 2** Locate the row that contains the engine and copy the name.



**Step 3** Click  in the upper left corner and choose **Middleware > Cloud Service Engine**.

**Step 4** In the left navigation pane, choose **Registry/Configuration Center**.

**Step 5** In the upper right corner of the engine list, paste the engine name obtained in [Step 2](#) and click .

**Step 6** Click the engine. On the displayed page, delete it.

#### NOTE

The system usually deducts fees of the last settlement period one hour of you using the engine. As a result, bill information may still exist for a pay-per-use engine that was just deleted. For example, if you delete a registry/configuration center (billed on an hourly basis) at 08:30:00, the expenditures for that hour from 08:00:00 to 09:00:00 are usually not billed until around 10:00:00.

-----End

# 3 Exclusive ServiceComb Engines

---

## 3.1 Billing Overview

This section describes the billing modes and items, renewal, and arrears of exclusive ServiceComb engines.

- **Billing Modes**

Exclusive ServiceComb engines have one billing mode: pay-per-use. Pay-per-use is postpaid. You use ServiceComb engines and then pay as billed for your usage duration. For details, see [Billing Mode of Exclusive ServiceComb Engines](#).

- **Billing Items**

The billing items of exclusive ServiceComb engines vary by instance specifications. For details, see [Billing Items](#).

- **Bills**

View transactions and detailed bills related to your exclusive ServiceComb engines on the **Billing Center** > **Billing** page. For details, see [Bills](#).

- **Arrears**

Your account goes into arrears when your balance is less than the bill to be settled. If you are in arrears, your exclusive ServiceComb engines may not run correctly. Please top up in time. For details, see [Arrears](#).

- **Stopping Billing**

You can delete unneeded ServiceComb engines to avoid being charged for their usage. For details, see [Stopping Billing](#).

## Pricing

For details about pricing of ServiceComb engines, see [Product Pricing Details](#).

## 3.2 Billing Modes

### 3.2.1 Billing Mode of Exclusive ServiceComb Engines

ServiceComb engines have one billing mode: pay-per-use.

Pay-per-use is postpaid. You use engines first, and then pay as billed for your usage duration. The fees are calculated by second and settled by hour. This allows you to adjust resource usage easily. You neither need to prepare for resources in advance, nor end up with excessive or insufficient preset resources. This mode is suitable for traffic bursts.

**Table 3-1** Billing modes

<b>Billing Mode</b>	Pay-per-use
<b>Payment Mode</b>	Postpaid Billed by usage duration
<b>Billing Cycle</b>	Billed by second and settled by hour
<b>Billing Item</b>	ServiceComb engine instance specifications
<b>Billing for Frozen Engines</b>	You will not be billed for frozen engines.
<b>Billing Mode Change</b>	Not supported.
<b>Specifications Change</b>	Supported
<b>Recommended Scenario</b>	When resource demands fluctuate. You can enable and delete resources as needed.

### 3.2.2 Pay-per-Use

Pay-per-use allows you to use resources before paying for them. It is recommended when you do not want to pay in advance or do not need the resources for long. This section describes the pay-per-use billing rules of exclusive ServiceComb engines.

#### Scenario

Pay-per-use is suitable for applications or services that cannot be interrupted when facing temporary or sudden traffic increases or unpredictable demands, such as e-commerce flash sales, testing, and scientific computing.

#### Billing Items

Select ServiceComb engine specifications based on the total number of microservice instances to be hosted. You will be billed for specifications you selected. The following items can be billed on a pay-per-use basis.

**Table 3-2** Billing items

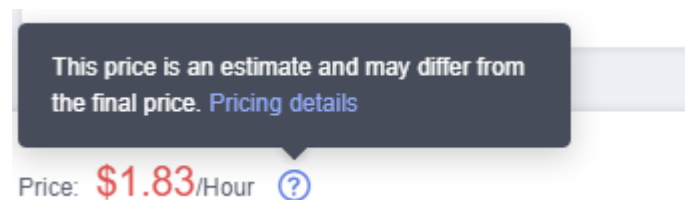
Billing Item	Description
Unit price of ServiceComb engine instance specifications (price per hour)	You are billed for your selected engine instance specifications. ServiceComb engines support 100, 200, 500, or 2000 microservice instances. For details, see <a href="#">Pricing Details of Exclusive ServiceComb Engines</a> .

Example: When you purchase an exclusive ServiceComb engine that supports 100 microservice instances, fee details are at the bottom of the purchase page, as shown in [Figure 3-1](#).

**NOTICE**

The prices are for reference only. Actual prices are subject to those in [Pricing Details of Exclusive ServiceComb Engines](#).

**Figure 3-1** Price example



## Billing Cycle

In pay-per-use mode, exclusive ServiceComb engines are billed by second and settled by hour (UTC+08:00). After the settlement is complete, a new billing cycle starts. The billing starts when an engine is created, and stops when the engine is deleted.

For example, you purchased an exclusive ServiceComb engine at 08:05:00 and deleted it at 08:55:00. The billing cycle is from 08:00:00 to 09:00:00. You need to pay the fees generated from 08:05:00 to 08:55:00. There is a total of 3000s.

## Billing Example

You purchased an exclusive pay-per-use ServiceComb engine (that supports 100 microservice instances) at 09:59:30 on April 18, 2023 and then deleted it at 10:45:46 on the same day.

- The first billing cycle is from 09:00:00 to 10:00:00. You need to pay the fees generated from 09:59:30 to 10:00:00. There is a total of 30s. The fee in this billing cycle is  $1.83/3600 \times 30 = \$0.02$  USD.
- The second billing cycle is from 10:00:00 to 11:00:00. You need to pay the fees generated from 10:00:00 to 10:45:46. There is a total of 2746s. The fee in this billing cycle is  $1.83/3600 \times 2746 = \$1.40$  USD.

You need to pay for each billing cycle. [Table 3-3](#) lists the billing formula. The price of a resource listed in the product pricing details is per hour, so divide it by 3600 to obtain the price for each second.

**Table 3-3** Billing formula

Resource	Billing Formula	Unit Price
Exclusive ServiceComb engines	Unit price of instance specifications x Billing duration	For details, see <a href="#">Pricing Details of Exclusive ServiceComb Engines</a> .

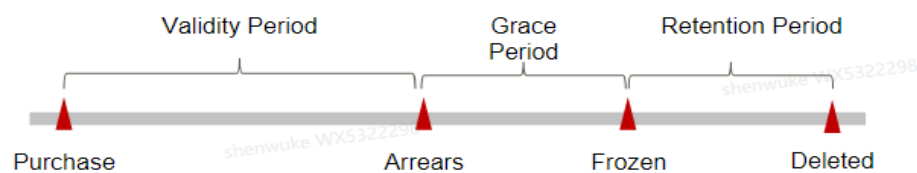
**NOTICE**

The prices are for reference only. Actual prices are subject to those in [Pricing Details of Exclusive ServiceComb Engines](#).

## Arrears Impact

For the lifecycle of exclusive pay-per-use ServiceComb engines, see [Figure 3-2](#). Once purchased, resources run within the billing cycle. This is their validity period. If your account is in arrears due to automatic fee deduction, your resources enter the grace period and then the retention period.

**Figure 3-2** Lifecycle of exclusive pay-per-use ServiceComb engines



### Arrears Alert

The system will deduct fees for pay-per-use resources at the end of each billing cycle. You will be notified by email, SMS, or internal messages when your account is in arrears.

### Arrears Impact

Your account may be in arrears due to automatic fee deduction for exclusive ServiceComb engines. However, your resources will not be stopped immediately;

instead, they enter the grace period. You will need to pay for the fees incurred during the grace period, which you can see on the **Billing & Costs > Billing Center > Overview** page of the Huawei Cloud console. Huawei Cloud will automatically deduct this amount when you top up.

If you do not pay the arrears within the grace period, your resources will enter the retention period and become frozen. You cannot perform any operations on the pay-per-use resources during this period.

If you do not pay the outstanding amount after the retention period expires, your engines will be deleted and their data cannot be recovered.

 **NOTE**

Both the grace and retention periods are 15 days.

## 3.3 Billing Items

### Description

You are billed for your selected engine instance specifications.

For details about pricing of ServiceComb engines, see [Product Pricing Details](#).

**Table 3-4** ServiceComb engine billing item

Billing Item	Description	Billing Mode	Billing Formula
ServiceComb engine instance	You are billed for your selected engine instance specifications.	Pay-per-use	<p><b>Unit price of instance specifications x Purchase duration</b></p> <p>For details, see <a href="#">Pricing Details of Exclusive ServiceComb Engines</a>.</p>

## 3.4 Bills


Go to Huawei Cloud's Billing Center to view the bills of your exclusive ServiceComb engines. You can also learn about their usage and billing details for a specific period.

### Bill Reporting Period

For pay-per-use ServiceComb engines, their usage information will be periodically reported to the billing system for settlement. Pay-per-use resources can be settled by hour, day, or month. Exclusive pay-per-use ServiceComb engines are settled by

hour. For example, if you delete an exclusive ServiceComb engine at 08:30, the fees generated from 08:00 to 09:00 will usually be deducted at about 10:00. On the **Billing Center > Billing > Transactions and Detailed Bills > Transaction Bills** page, **Expenditure Time** lists the usage duration of your pay-per-use resources.

## Viewing Bills of a Specific Resource

- Step 1** Log in to the [management console](#).
- Step 2** Choose **Middleware > Cloud Service Engine**.
- Step 3** In the navigation pane, choose **Exclusive ServiceComb Engines**.
- Step 4** Click a target engine. On the displayed page, copy the engine ID.
- Step 5** Choose **Billing > Transactions and Detailed Bills**.
- Step 6** Choose **Transactions and Detailed Bills > Bill Details**. On the displayed page, select **Resource ID** as the filter condition, paste the resource ID copied in **Step 4**, and click  to search for the bill of the resource.

By default, bill details are displayed by usage and billing cycle. You can also select other statistical dimensions or periods.

----End

## 3.5 Arrears

Your account goes into arrears when your balance is less than the bill to be settled. If you are in arrears, your exclusive ServiceComb engines may not run correctly. Please top up in time.

### Arrears Reason

The account balance is insufficient.

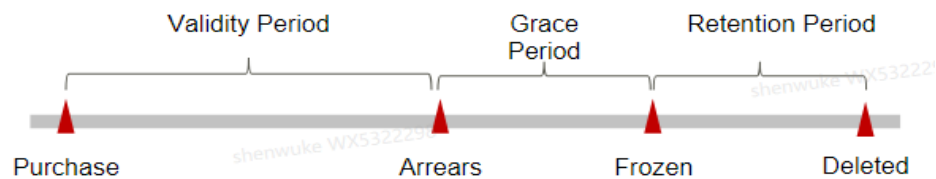
### Arrears Impact

Your account may be in arrears due to automatic fee deduction for exclusive ServiceComb engines. However, your resources will not be stopped immediately; instead, they enter the grace period. You will need to pay for the fees incurred during the grace period, which you can see on the **Billing & Costs > Billing Center > Overview** page of the Huawei Cloud console. Huawei Cloud will automatically deduct this amount when you top up.

If you do not pay the arrears within the grace period, your resources will enter the retention period and become frozen. You cannot perform any operations on the pay-per-use resources during this period.

If you do not pay the outstanding amount after the retention period expires, your engines will be deleted and their data cannot be recovered.

**Figure 3-3** Lifecycle of exclusive pay-per-use ServiceComb engines



## Avoiding and Handling Arrears

Top up in time if your account is in arrears.

If exclusive ServiceComb engines are no longer used, delete them to avoid being charged.

Enable balance alert on the **Billing Center > Overview** page. When the total amount of the available quota, general cash coupons, and cash coupons is lower than the threshold, you will be notified by SMS or email.

If your account is in arrears, top up in time.

## 3.6 Stopping Billing

### Pay-per-Use Resources

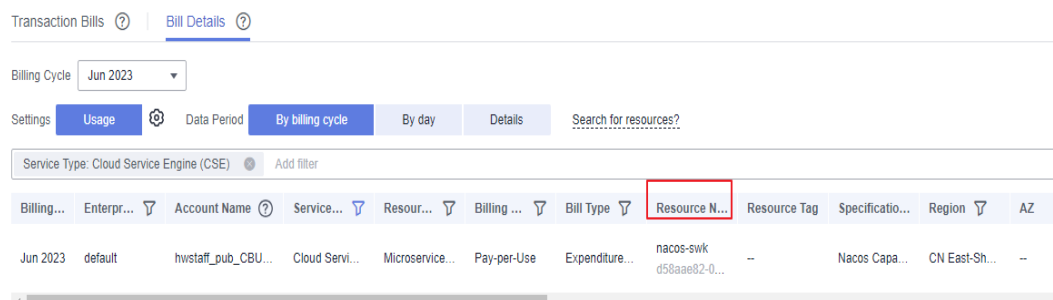
If exclusive pay-per-use ServiceComb engines are no longer needed, delete them in time to avoid being charged.


### Searching for Exclusive ServiceComb Engines and Deleting Them


Obtain the names of exclusive ServiceComb engines from the bill, and then locate and delete them:

**Step 1** Choose **Billing > Transactions and Detailed Bills**.

**Step 2** On the displayed page, choose **Transactions and Detailed Bills > Bill Details**, and copy an engine name, as shown in the following figure.



**Step 3** Click  in the upper left corner and choose **Middleware > Cloud Service Engine**.

- Step 4** In the navigation pane, choose **Exclusive ServiceComb Engines**.
- Step 5** In the upper right corner of the exclusive ServiceComb engine list, paste the engine name obtained in **Step 2** and click .
- Step 6** Click the engine name. On the displayed page, delete the engine.

 **NOTE**

The system usually deducts fees of the last settlement period one hour of you using the engine. As a result, bill information may still exist for a pay-per-use engine that was just deleted. For example, when you delete pay-per-use resource at 08:30, the fees generated between 08:00 and 09:00 are usually deducted at about 10:00.

----End