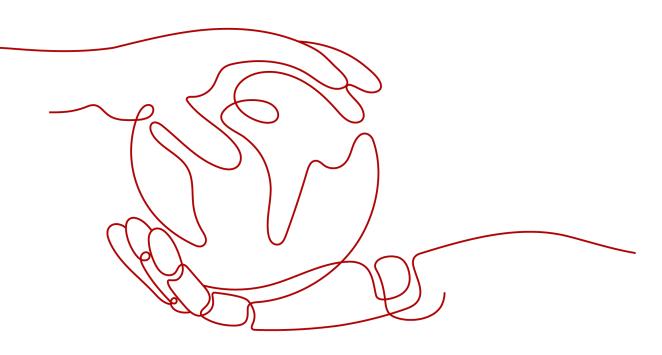
Cloud Connect

Billing

 Issue
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Billing Overview

In this topic, you will learn about how Cloud Connect is billed, how you can renew subscriptions and manage costs, and what happens if your account goes into arrears.

• Billing Modes

- Bandwidth packages used by cloud connections support the yearly/ monthly billing mode. You pay upfront for the amount of time you expect to use the bandwidth packages for. You will need to make sure you have an account with a sufficient balance or have a valid payment method configured first.
- Central networks support the pay-per-use billing mode. You can start using the resources first and then pay as you go. You will be charged for the following:
 - How long you use each global connection bandwidth
 - How long you use each connection between enterprise routers on a central network

D NOTE

If you want to evaluate the network quality and bandwidth after you have configured Cloud Connect, you can contact your customer manager to apply for pay-per-use bandwidth packages.

- Pay-per-use bandwidth packages are only used for testing.
- Pay-per-use bandwidth packages are billed by the hour. View the exact price on the **Buy Bandwidth Package** page.
- The billing stops only after pay-per-use bandwidth packages are deleted. Delete your bandwidth packages in a timely manner if you no longer need them.

• Billed Items

- Cloud connections: bandwidth packages
- Central networks: global connection bandwidths and attachments to enterprise routers

For details about the calculation factors and formula of billed items, see **Billed Items**.

For more information about the billing samples and the billing for each item, see **Billing Examples**.

Renewal

After yearly/monthly bandwidth packages expire, network instances cannot use the cloud connections normally. If you want to continue using the cloud connections, you need to renew the bandwidth packages within a specified period to avoid data loss. You can renew your subscriptions manually or automatically. For more details, see **Overview**.

• Bills

You can choose **Billing Center** > **Billing** to check Cloud Connect transactions and bills. For details, see **Bills**.

• Arrears

If there is not a sufficient account balance to pay for your bill and there is no other payment method configured, your account will go into arrears. If you want to continue using your cloud services, you will need to top up your account in a timely manner. For details, see **Arrears**.

• Stopping Billing

If you no longer need to use your cloud service, you can unsubscribe from or delete it to stop the billing. For details, see **Billing Termination**.

• Managing Costs

You can allocate, analyze, and optimize costs to save more money. For details, see **Cost Management**.

2 Billing Modes

2.1 Overview

- Bandwidth packages used by cloud connections support the yearly/monthly billing mode. You pay upfront for the amount of time you expect to use the bandwidth packages for. The longer the subscription term, the bigger the discount.
- Central networks are billed for each global connection bandwidth used by cross-site connections and for each connection between enterprise routers. Both items support pay-per-use billing. Pay-per-use is a postpaid billing mode. You pay as you go and just pay for what you use. The usage is calculated by the second but billed every 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.

Billing Mode	Yearly/Monthly
Payment	Prepaid
Billing Method	Billed by the subscription term you purchase.
Billed Item	Bandwidth packages
Changing the Specifications	Allowed
Application Scenario	Recommended for resources expected to be in use long-term.

 Table 2-1 Cloud connection billing mode

Table 2-2 Central network billing mode

Billing Mode	Pay-per-use
--------------	-------------

Payment	Postpaid	
Billing Method	Billed by the second and settled by the hour.	
Billed Items	 There are two billed items for a central network: Each connection between enterprise routers on the central network Each global connection bandwidth used by cross-site connections on the central network 	
Changing the Specifications	Global connection bandwidths can be changed.	
Application Scenario	Recommended when the resource demands are likely to fluctuate and you want more flexibility.	

2.2 Yearly/Monthly Billing

If you expect to use resources for a longer period, you can save money by selecting yearly/monthly billing. Yearly/Monthly is a prepaid billing mode. You pay in advance for using a cloud service, and in exchange, you get a discounted rate. This topic describes the billing rules for yearly/monthly bandwidth packages.

Application Scenarios

If you want to ensure resource stability over a certain period of time, yearly/ monthly billing is a good choice for the following types of workloads:

- Long-term workloads with stable resource requirements, such as official websites, online malls, and blogs.
- Long-term projects, such as scientific research projects and large-scale events.
- Workloads with predictable traffic bursts, for example, e-commerce promotions or festivals.
- Workloads with high data security requirements

Billed Item

Cloud connections are free. To enable high-quality communication across regions, you need to purchase yearly/monthly bandwidth packages. If your VPCs are in the same region, there is no need to buy a bandwidth package.

Bandwidth packages are billed by the term your purchase.

Billed Item	Description
Bandwidth package	Used for communication between regions within a geographic region or across geographic regions.
	The bandwidth billing option is By bandwidth .

Table 2-3 Billed item

Billed Usage Period

A yearly/monthly bandwidth package is billed for the purchased duration. The billing starts when you activated or renewed the subscription, and ends at 23:59:59 of the expiry date.

For example, if you purchased a one-month bandwidth package on March 08, 2023, 15:50:04, the billed usage period is from March 08, 2023, 15:50:04 to April 08, 2023, 23:59:59.

Billing Example

Assume that you purchased a one-month, 150-Mbit/s bandwidth package at 15:50:04 on March 8, 2023 for communication within the Chinese mainland and renewed the subscription for one more month before the initial subscription expired. That would include two usage periods:

- 15:50:04 on March 08, 2023 to 23:59:59 on April 08, 2023
- 23:59:59 on April 8, 2023 to 23:59:59 on May 8, 2023

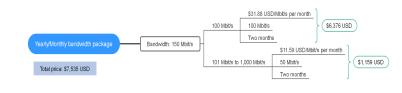
You will be billed for both usage periods. **Table 2-4** shows the billing formula.

Resource	Billing	Unit Price
Bandwidth	Tiered pricing is used based on the bandwidth.	Cloud Connect pricing details

Table 2-4 Billing formula

Figure 2-1 shows how the total price is calculated.

Figure 2-1 Example bandwidth package billing



NOTICE

The prices in the figure are just examples. The actual prices are displayed on **Cloud Connect Pricing Details**.

Price Change After Specification Change

If the specifications of a yearly/monthly bandwidth package no longer meet your needs, you can change the specifications on the console. The system will recalculate the price and either bill or refund you the difference.

- If you upgrade the bandwidth package, you need to pay the difference in price.
- If you downgrade the bandwidth package, Huawei Cloud will refund you the difference.

Assume that you purchased a one-month 150-Mbit/s bandwidth package for communication within the Chinese mainland (billed by bandwidth) on April 8, 2023 and changed the bandwidth to 200 Mbit/s on April 18, 2023. The price of the original bandwidth is \$3,767.5 USD, and the price of the new bandwidth is \$4,347 USD. The price difference will be calculated as follows:

Price difference = New bandwidth price × Remaining period - Original bandwidth price × Remaining period

The remaining period is the remaining days of each calendar month divided by the maximum number of days in each calendar month. In this example, the remaining period is 0.6581.

12 (Remaining days in April)/30 (Days in April) + 8 (Remaining days in May)/31 (Days in May) = 0.6581

Price difference = \$4,347 USD x 0.6581 - \$3,767.5 USD x 0.6581 = \$377.7181 USD

For more information, see **Pricing of a Changed Specification**.

Impact of Expiration

Figure 2-2 shows the statuses a yearly/monthly bandwidth package can go through throughout its lifecycle. After a bandwidth package is purchased, it enters the valid period and runs normally during this period. If the bandwidth package is not renewed after it expires, before being deleted, it first enters a grace period and then a retention period.



Figure 2-2 Lifecycle of a yearly/monthly bandwidth package

Expiration Reminder

The system will send you a reminder (by email, SMS, or in-app message) 7 days before a yearly/monthly bandwidth package expires to remind you to renew the subscription.

Impact of Expiration

Grace period

If the yearly/monthly bandwidth package is not renewed after it expires, it changes to the **Expired** state and enters a grace period.

• Retention period

If the yearly/monthly bandwidth package is not renewed after the grace period ends, its status turns to **Frozen** and it enters a retention period. You cannot perform any operations on the bandwidth package while it is in the retention period.

• Permanent release

If the yearly/monthly bandwidth package is not renewed by the time the retention period ends, the bandwidth package will be released and data cannot be restored.

NOTE

• For details about renewals, see **Overview**.

2.3 Pay-per-Use Billing

Pay-per-use billing means you pay nothing up front and are not tied into any contract or commitment. This topic describes the billing rules for pay-per-use resources used by a central network.

Application Scenarios

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

Billed Items

Central networks are free of charge. The global connection bandwidths used by central networks and the connections between enterprise routers on the central networks support pay-per-use billing.

Billed Item	Description
Each global connection bandwidth used by cross- site connections on the central network	A global connection bandwidth is used by instances to allow communication over the backbone network. The bandwidth is billed by fixed bandwidth.
Each connection between enterprise routers on a central network	When you add enterprise routers to a central network, the connections between enterprise routers are not free.
	The price of connections on a central network is determined by the number of enterprise routers.

Billed Usage Period

Global connection bandwidth usage is calculated by the second and billed every hour. The billing starts when a global connection bandwidth is purchased and ends when the bandwidth is deleted.

For example, if you purchased a pay-per-use global connection bandwidth at 8:45:00 and deleted it at 8:55:00, you are billed for the 600 seconds from 8:45:00 to 8:55:00.

Billing Example

Assume that you purchased a 150-Mbit/s global connection bandwidth for a crosssite connection between enterprise routers at 9:30:00 on April 18, 2023.

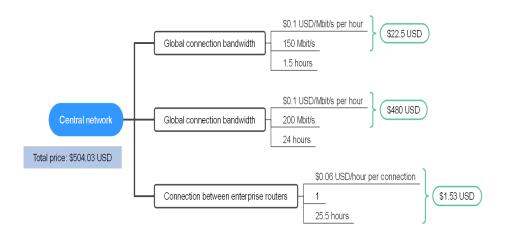
- You increased the bandwidth to 200 Mbit/s at 11:00:00 on April 18, 2023.
- You deleted the bandwidth at 11:00:00 on April 19, 2023.

Enterprise routers are free of charge, but the connections between enterprise routers are billed by the hour.

In this example, the unit price of the global connection bandwidth is \$0.1 USD/ Mbit/s per hour, and that of the connection is \$0.06 USD/hour.

Figure 2-3 shows how the total price is calculated.

Figure 2-3 Example central network price



Resource	Required Duration	Price	Total Price
Global connection bandwidth	 From 9:30:00 on April 18, 2023 to 11:00:00 on April 19, 2023 From 9:30:00 on April 18, 2023 to 11:00:00 on April 18, 2023: 1.5 hours From 11:00:00 on April 18, 2023 to 11:00:00 on April 19, 2023: 24 hours 	 \$0.1 USD x 150 Mbit/s x 1.5 hours = \$22.5 USD \$0.1 USD x 200 Mbit/s x 24 hours = \$480 USD 	\$22.5 USD + \$480 USD = \$502.5 USD
Connectio n between enterprise routers	From 9:30:00 on April 18, 2023 to 11:00:00 on April 19, 2023: 25.5 hours	\$0.06 x 1 x 25.5 hours = \$1.53 USD	\$1.53 USD

NOTICE

The prices in the figure are for reference only. The actual prices are displayed on the console.

Price Change After Specification Change

If you change the specifications of a pay-per-use global connection bandwidth, 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 the specifications within a given hour, multiple records will be generated. Different records record the billing for different specifications.

For example, if you purchase a 150-Mbit/s global connection bandwidth at 9:00:00 and increase the bandwidth to 200 Mbit/s at 9:30:00, two records will be generated between 9:00:00 and 10:00:00.

- From 9:00:00 to 9:30:00: 150 Mbit/s
- From 9:30:00 to 10:00:00: 200 Mbit/s

Impact of Arrears

Figure 2-4 shows the statuses a pay-per-use resource can have throughout its lifecycle. After a resource is purchased, it enters the valid period and runs normally during this period. If your account goes into arrears, the resource enters a grace period and then a retention period.

Validity Period Grace Period Retention Period

Figure 2-4 Lifecycle of a pay-per-use resource

Arrears Reminder

The system will bill you for pay-per-use resources after each billing cycle ends. If your account goes into arrears, we will notify you by email, SMS, or in-app message.

Impact of Arrears

• If your account is insufficient to pay your amount due, the account will go into arrears and the resource will enter the grace period.

Pay-per-use resources are not stopped immediately. 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 balance as needed.

- If you do not bring your account balance current before the grace period expires, the resource status turns to **Frozen** and it enters a retention period.
- If you do not bring your account balance current before the retention period ends, your resources will be released, and the data cannot be restored.

NOTE

- For details about the grace period and retention period, see What Is a Grace Period of Huawei Cloud? How Long Is It? and What Is a Retention Period of Huawei Cloud? How Long Is It?
- For details about topping up your account, see **Topping up an Account**.

3 Billed Items

Cloud Connection Billed Item

Cloud connections and central networks are billed separately.

Billed Item	Description	Billing Mode	Formula
Bandwid th package s	 A bandwidth package is billed regardless of whether it is used for communication within a geographic region or across geographic regions. Billing option: by bandwidth 	Yearly/ Monthly	Tiered pricing based on fixed bandwidth Bandwidth package unit price x Required duration See Cloud Connect Pricing Details.

Table 3-1 Cloud connection billed item

Central Network Billed Items

A central network is billed by each global connection bandwidth and each connection between enterprise routers, as detailed in **Table 3-2**.

Billed Item	Description	Billing Mode	Billing Formula
Each global connectio n bandwidth used by cross-site connectio ns on the central network	 The multi-city bandwidth is free. Geographic-region bandwidth and cross-geographic-region bandwidth are billed for the duration that you use the bandwidth. Billing option: by bandwidth 	Pay-per- use	Billed by bandwidth Bandwidth package unit price x Required duration The actual price is displayed on the console.
Connectio n between enterprise routers on the central network	Enterprise routers on the central network are free, but the attachments to enterprise routers are billed.	Pay-per- use	Connection unit price x Required duration See Enterprise Router Pricing Details.

Table 3-2 Central ne	etwork billed items
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4Billing Examples

Cloud Connection Billing Example

Assume that you purchased a one-month, 150-Mbit/s bandwidth package at 15:50:04 on March 8, 2023 for communication within the Chinese mainland and renewed the subscription for one more month before the initial subscription expired. That would include two usage periods:

- 15:50:04 on March 08, 2023 to 23:59:59 on April 08, 2023
- 23:59:59 on April 8, 2023 to 23:59:59 on May 8, 2023

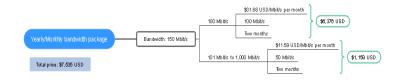
You will be billed for each usage period. **Table 4-1** shows the billing formula.

Table	4-1	Billing	formula
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Resource	Billing	Unit Price
Bandwidth	Tiered pricing is used based on the bandwidth.	Cloud Connect pricing details

Figure 4-1 shows how the total price is calculated.

Figure 4-1 Example bandwidth package billing



NOTICE

The prices in the figure are just examples. The actual prices are displayed on **Cloud Connect Pricing Details**.

Central Network Billing Example

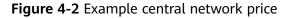
Assume that you purchased a 150-Mbit/s global connection bandwidth for a crosssite connection between enterprise routers at 9:30:00 on April 18, 2023.

- You increased the bandwidth to 200 Mbit/s at 11:00:00 on April 18, 2023.
- You deleted the bandwidth at 11:00:00 on April 19, 2023.

Enterprise routers are free of charge, but the connections between enterprise routers are billed by the hour.

In this example, the unit price of the global connection bandwidth is \$0.1 USD/ Mbit/s per hour, and that of the connection is \$0.06 USD/hour.

Figure 4-2 shows how the total price is calculated.



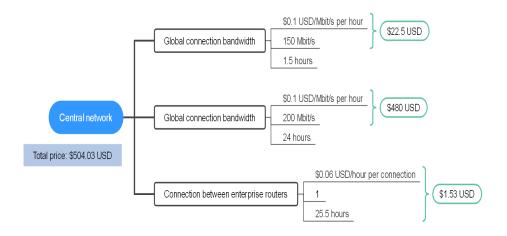


Table 4-2	Center	network	price	details	
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Resource	Required Duration	Price	Total Price
Global connection bandwidth	 From 9:30:00 on April 18, 2023 to 11:00:00 on April 19, 2023 From 9:30:00 on April 18, 2023 to 11:00:00 on April 18, 2023: 1.5 hours From 11:00:00 on April 18, 2023 to 11:00:00 on April 19, 2023: 24 hours 	 \$0.1 USD x 150 Mbit/s x 1.5 hours = \$22.5 USD \$0.1 USD x 200 Mbit/s x 24 hours = \$480 USD 	\$22.5 USD + \$480 USD = \$502.5 USD
Connectio n between enterprise routers	From 9:30:00 on April 18, 2023 to 11:00:00 on April 19, 2023: 25.5 hours	\$0.06 x 1 x 25.5 hours = \$1.53 USD	\$1.53 USD

NOTICE

The prices in the figure are for reference only. The actual prices are displayed on the console.

5 Billing Mode Changes

5.1 Overview

You can change the billing mode if it no longer meets your needs. **Table 5-1** lists the changeable billed items.

Billed Item	Change Description	Reference
ECS specification s (vCPUs and memory)	 Changing the billing mode of an ECS includes the changes to compute resources (vCPUs and memory) and the system disk. Change from pay-per-use to yearly/monthly to enjoy lower prices. Change from yearly/monthly to pay-per-use to use the ECS more flexibly. NOTE Changing from yearly/monthly to pay-per-use takes effect immediately. 	 Pay-per-Use to Yearly/Monthly Yearly/Monthly to Pay-per-Use
EVS disk	Changing the billing mode independently from the ECS billing mode is not supported. You must attach an EVS disk to an ECS and initiate the change on the ECS side.	 Pay-per-Use to Yearly/Monthly Yearly/Monthly to Pay-per-Use

Table 5-1 Changeable ECS billing items

Billed Item	Change Description	Reference
EIP	• A yearly/monthly EIP can be changed to a pay-per-use EIP billed by bandwidth after the yearly/monthly subscription ends.	 Pay-per-Use to Yearly/Monthly Yearly/Monthly to Pay-per-Use
	 A pay-per-use EIP billed by bandwidth can be changed to a yearly/monthly EIP. 	
	 Pay-per-use EIPs billed by bandwidth can be changed to pay- per-use EIPs billed by traffic, and pay-per-use EIPs billed by traffic can be changed to pay-per-use EIPs billed by bandwidth. 	

5.2 Pay-per-Use to Yearly/Monthly

If you have a pay-per-use ECS that you expect to use for a long time, you can change it to yearly/monthly billing to reduce costs. Doing so will create an order. After you pay for the order, yearly/monthly billing will be applied immediately.

Suppose a user bought a pay-per-use ECS at 15:29:16 on April 18, 2023 and changed it to yearly/monthly billing at 16:30:30 on the same day. After the user paid for the order, yearly/monthly billing was applied immediately. On the **Billing Center** > **Billing** page, three line items were generated, one for each of the hours the ECS was used on a pay-per-use basis, and one for the yearly/monthly subscription:

- Pay-per-use expenditures for 15:29:16 to 16:00:00 on April 18, 2023
- Pay-per-use expenditures for 16:00:00 to 16:30:30 April 18, 2023
- A single, yearly/monthly expenditure generated April 18, 2023, 16:30:30

Constraints

Resource such as EVS disks and the EIP that are used by an ECS may not support the change with this ECS. For details about their billing mode change rules and handling methods, see **Table 5-2** and **Table 5-3**.

Disk Type	Billing Mode	Shared Disk	Change to Yearly/ Monthly Billing with ECS	Handling Measure
Local disk	N/A	No	N/A	None

Table 5-2 EV	5 disk	billing	mode	change rules
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Disk Type	Billing Mode	Shared Disk	Change to Yearly/ Monthly Billing with ECS	Handling Measure
DSS or DESS disk	Yearly/ Monthly (storage pool's billing mode)	No	N/A	None
EVS disk	Pay-per-use	No	Supported (excluding Extreme SSD V2 disks)	None
EVS disk	Pay-per-use	Yes	Not supported	Change the disk to yearly/monthly billing on the EVS console. For details, see Billing for Disks .
EVS disk	Yearly/ Monthly	No	Not supported	This is a yearly/ monthly disk.
EVS disk	Yearly/ Monthly	Yes	Not supported	This is a yearly/ monthly disk.

 Table 5-3 EIP billing mode change rules

Resour ce	Billing Mode	Billed By	Bandwi dth Type	Change to Yearly/ Monthly Billing with ECS	Handling Measure
EIP	Pay- per-use	Bandwi dth	Dedicat ed	Supported	None
EIP	Pay- per-use	Traffic	Dedicat ed	Not supported	On the EIP console, change the bandwidth billing option of the EIP from traffic to bandwidth and then change the billing mode to yearly/ monthly. For details, see Changing EIP Billing Mode.

Resour ce	Billing Mode	Billed By	Bandwi dth Type	Change to Yearly/ Monthly Billing with ECS	Handling Measure
EIP	Pay- per-use	Bandwi dth	Shared	Not supported	Change the EIP to yearly/monthly billing on the EIP console. For details, see Changing EIP Billing Mode.
EIP	Yearly/ Monthl y	Bandwi dth	Dedicat ed or shared	Not supported	The EIP is already a yearly/monthly EIP.

Prerequisites

- The ECS billing mode is pay-per-use.
- The ECS status is **Running** or **Stopped**.

Procedure

- **Step 1** Log in to the management console.
- **Step 2** Click ¹ in the upper left corner and select your region and project.
- **Step 3** Click \equiv and choose **Compute** > **Elastic Cloud Server**.
- **Step 4** In the ECS list, select the target ECS.
- **Step 5** In the **Operation** column, choose **More** > **Change Billing Mode**.

NOTE

The billing mode of multiple ECSs can be changed in batches. The procedure is as follows:

- 1. Select the target ECSs.
- 2. On the top of the ECS list, choose **More** > **Change Billing Mode**.
- **Step 6** On the **Change Billing Mode** page, confirm the information and click **Yes**.

 \times

Figure 5-1 Change Billing Mode

Change Billing Mo	de				
Resources whose b	illing modes cannot l	resources can be chang be changed to yearly/mo Il retain their original bill	onthly to	ogether with the ECS o	
Are you sure you want to char	nge the billing mode	of the following 1 ECS t	o yearly	//monthly?	
Name		Status	Rema	arks	
(a,b,b,b,a,b,c,b,c,b,c,b,c,b,c,b,c,b,c,b,	1007-0	Running			
The following associated reso	urces will retain their	r original billing modes. Y	You can	manually change then	n separately.
Name	Туре	Flavor		Billing Mode	Operation
	EIP	1 Mbit/s		Pay-per-use	View Details
	1	Yes No			

Step 7 Select the usage duration, determine whether to enable auto-renewal, confirm the expected expiration date and price, and click **Pay**.

Figure 5-2 Change Subscription

	\checkmark	Name/ID	Service Type	Specifications		Region	Status	Enabled	
~	~	ec75f2e6-e6f9-4426-b9b8-c9cf912f3501	Elastic Cloud Server			CN-Hong Kong			
Usage	Duratio		nonths 4 months	5 months	6 months	7 months	8 months	9 months	1 year 🖴
Au	to-Rene	ew (?)							
Expect	ed Expi	ration Date Sep 29, 2023 23:59:59 GMT+1	08:00 (?)						

Step 8 Select a payment method and make your payment. Once the order is paid, yearly/ monthly billing is applied.

----End

5.3 Yearly/Monthly to Pay-per-Use

After creating a yearly/monthly ECS, you can change it to pay-per-use for more flexibility, and you can recoup part of what you paid for the subscription.

NOTE

Pay-per-use billing will be applied only after the yearly/monthly billing duration ends.

Constraints

- Changing from yearly/monthly to pay-per-use is supported only after you have passed real-name authentication.
- The billing mode can only be changed from yearly/monthly to pay-per-use for ECSs whose order status is **Provisioned**. You can view the order status on the **Billing Center** > **Renewals** page
- The billing modes of products in a solution portfolio cannot be changed from yearly/monthly to pay-per-use.

Prerequisites

You need to change from yearly/monthly to pay-per-use on the **Billing Center** > **Renewals** page.

Procedure

- **Step 1** Log in to the management console.
- **Step 2** Hover over **Billing & Costs** in the upper part of the console and choose **Renewal** from the drop-down list.

The **Renewals** page is displayed.

- **Step 3** Set the search criteria.
 - Under the **Pay-per-Use After Expiration** tab, you can view the resources that already have changed to pay-per-use upon expiration configured.
 - Under the **Manual Renewals**, **Auto Renewals**, and **Renewals Canceled** tabs, you can change the resources to pay-per-use billing upon expiration.

Figure 5-3 Renewals

		Search	۹	Billing & Costs Resou	rces Enterprise Dev	reloper Tools Support	Service Tickets 🕀 Inti-English	- C
enewals			Unpaid Orders Renewal	4	(@ Quick Links	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal
 If you want to continue using any resources ab Renewals or changes to pay-per-use will be ap If you want to learn what happens after a resou If you want to renew your subscriptions more e 	plied after the current subscription term ince expires, refer to What Are a Grace	ends. Period and a Retention Perio	My Packages Bills Invoices	lo I Cha	nge the Billing Mode from	Yearly/Monthly to Pay-per-	Use?	
Expires Expires in 30 days Expires in 15 d	ays Expires in 7 days Custom	Status 🖡	Cost Center					
Service Type: Elastic Cloud Server 🔘 🛛 🖗 Ac	ld filter							×Q
Manual Renewals (1) Auto Renewals (1) Batch Renew Enable Auto-Renew	Pay-per-Use After Expirat Change to Pay-per-Use After Expirat		anceled (0) Batch Export					Export Renewal Prices
Instance Name/ID	Product Type/Specifications	Region	Enterprise Project	Provisioned/Expi	res	Status	Validity Period	Operation
 891c2076-a664-4520-b81c-f1ef 	Elastic Cloud Server General Computing[s3.small.1]1	CN-Hong Kong	default	Sep 01, 2023 14:4 Oct 01, 2023 23:5		Provisioned	30 days until expiration Delete after retention pe	Renew More +

Step 4 Change yearly/monthly resources to pay-per-use billing upon expiration.

• Single ECS: Select the ECS you want to change the billing mode and choose More > Change to Pay-per-Use After Expiration in the Operation column.

Figure 5-4 Changing to pay-per-use billing upon expiration for a single resource

newals				🕼 Quick Links	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renev
If you want to continue using any resources a Renewals or changes to pay-per-use will be If you want to learn what happens after a res If you want to renew your subscriptions more	applied after the current subscription terr ource expires, refer to What Are a Grace	ends. Period and a Retention Perio	d?	5? and How Do I Change the Billing Mode from Ye	arly/Monthly to Pay-per-U	567	
xpires Expires in 30 days Expires in 15	days Expires in 7 days Custom	Status	rovisioned Expired	Frozen			
Do not show resources that have orders pend	ing payment Do not show resource	packages 🔻					
Service Type: Elastic Cloud Server 🛛 🕲 🖓	Add filter						× C
Ianual Renewals (1) Auto Renewals	(0) Pay-per-Use After Expira	ion (0) Renewals C	anceled (0)				
Batch Renew Enable Auto-Renew	Change to Pay-per-Use After Expire	tion Cancel Renewal	Batch Export				Export Renewal Prices
Instance Name/ID	Product Type/Specifications	Region	Enterprise Project	Provisioned/Expires	Status	Validity Period	Operation
✓ ■ 891c2076-a664-4520-b81c-f1ef	Elastic Cloud Server General Computing s3.small.1 1	CN-Hong Kong	default	Sep 01, 2023 14:41:51 GMT+08:00 Oct 01, 2023 23:59:59 GMT+08:00	Provisioned	30 days until expiration Delete after retention pe Enable Auto-Renew	Renew More 🔺
						Change to Pay-per-U	se After Expiration
						ingeneral period	

• Multiple ECSs: Select the ECSs you want to change their billing modes and click **Change to Pay-per-Use After Expiration** above the ECS list.

Figure 5-5 Changing to pay-per-use billing upon expiration for multiple resources

Renewals		🕞 Quick Links	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewa
If you want to continue using any resources about to expire, refer to How Do I Renew Resources? Cannot Find the Ree Renewais or changes to pay-per-use will be applied after the current subcoption term ends. If you want to man with happens that resource applies (refer to HML Are a Gazee Predix ad a Relation Period?) If you want to renew your subcorptions more easily, refer to Automatically Renewing a Resource and Setting a Renewa		e the Billing Mode from Ye	arly/Monthly to Pay-per-Use	?	
Expires Expires in 35 days Expires in 7 days Custom Status Provi Op not show resources that have orders pending payment Op not show resource packages +	isioned Expired Frazen				
Service Type: Elastic Cloud Server 💿 🖤 Add filter					×Q
Manual Renewals (1) Auto Renewals (0) Pay-per-Use After Expiration (0) Renewals Cance Batch Renew Enable Auto-Renew Change to Pay-per-Use After Expiration Cancel Renewal	Batch Export				Export Renewal Prices C
Instance NamelID Product Type/Specifications Region E	Enterprise Project Provisioned/Expire	5	Status	Validity Period	Operation
Set 2016-4520-b81c-f1ef Elastic Cloud Server CN-Hong Kong C	default Sep 01, 2023 14:41: Oct 01, 2023 23:59:5		Provisioned	30 days until expiration Delete after retention pe	Renew More -

Step 5 Confirm the change details and click **Change to Pay-per-Use After Expiration**.

Figure 5-6 Changing to pay-per-use billing upon expiration

 After pay-per-use is enabled, the act 	use will be applied after the resource's current subscription term ends ual cost incurred while changing the resources will be billed to your a more after the resource' billing mode is changed to pay-per-use.			
Instance Name/ID	Product Information	Auto-Renew (?)	Pay-per-Use Starts	Price
✓ 891c2076-a664-4520-b81c	Service Type:Elastic Cloud Server Current Configuration:General Computing[s3.small.1]1vCPUs Region:CN-Hong Kong	Disabled	Oct 01, 2023 23:59:59 GMT+08:00	\$0.0180 USD / Hour
				Total \$0.0180 USD / Hour
				Change to Pay-per-Use

----End

6 Subscription Renewal

6.1 Overview

When to Renew Subscriptions

After yearly/monthly bandwidth packages expire, network instances cannot use the cloud connections normally. If you want to continue using the cloud connections, you need to renew the bandwidth packages within the specified period. If the bandwidth packages are not renewed, they will be automatically released, and data will be lost and cannot be restored.

Only yearly/monthly bandwidth package subscriptions can be renewed. Ensure that your account has sufficient balance to pay your amount due. For details, see **Topping up an Account (Postpaid Direct Customers)**.

If you renew the bandwidth package before it expires, resources will be retained and you can continue using the bandwidth package. For details about bandwidth package statuses after they have expired and the associated impacts, see **Impact of Expiration**.

How to Renew Subscriptions

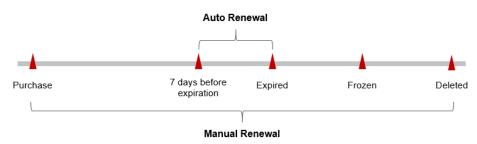
You can renew a yearly/monthly bandwidth package manually or automatically.

Method	Description
Manually Renewing a Bandwidth Package	You can renew a yearly/monthly bandwidth package on the console at any time before it is automatically deleted.
Auto-renewing a Global Connection Bandwidth	You can enable auto-renewal to automatically renew the bandwidth package before it expires. This prevents resources from being deleted in case you forget to renew a subscription.

Table 6-1 Renewing a yearly/monthly bandwidth package

You can select a method to renew a yearly/monthly bandwidth package based on the phase the bandwidth package is currently in.

Figure 6-1 Selecting a renewal method based on bandwidth package's current phase



- A bandwidth package is in the **Running** state after it is provisioned.
- When a bandwidth package subscription expires, the bandwidth package status will change from **Running** to **Expired**.
- If an expired bandwidth package is not renewed, it enters a grace period. If it is not renewed by the time the grace period expires, the bandwidth package will be frozen and enter a retention period.
- If you do not renew the subscription before the retention period expires, your resources will be automatically deleted.

NOTE

For details about the grace period and retention period, see What Is a Grace Period of Huawei Cloud? How Long Is It? and What Is a Retention Period of Huawei Cloud? How Long Is It?

You can enable auto-renewal at any time before a bandwidth package expires. By default, the system will make the first attempt to charge your account for the renewal at 03:00, seven days before the expiry date. If this attempt fails, it will make another attempt at 03:00 every day until the subscription is renewed or expires. You can change the auto-payment date for renewal as required.

6.2 Manually Renewing a Bandwidth Package

You can renew a yearly/monthly bandwidth package on the console at any time before it is automatically deleted.

Renewing a Subscription on the Console

Step 1 Log in to the management console.

- **Step 2** Click = in the navigation tree on the left and choose **Networking** > **Cloud Connect**.
- **Step 3** In the navigation pane on the left, choose **Cloud Connect** > **Bandwidth Packages**.

- **Step 4** On the **Bandwidth Packages** page, select the yearly/monthly bandwidth package to be renewed.
- **Step 5** In the **Operation** column, choose **More** > **Renew**.
- Step 6 Select a renewal duration and optionally select Renew on the standard renewal date. For details, see Setting the Same Renewal Day for Yearly/Monthly Resources. Confirm the price and click Pay.

Figure 6-2 Confirming renewal

ew						
	ations before its renewal period takes effect, the re eligible for a 5-day unconditional unsubscription.	enewal period cannot be unsubscribed from	n.			
Instance Name/ID	Product Information	Auto-Renew 🧿	Renewal Duration	Expiration Time		Fee
bandwidthPackge-7343 144e24072b5a433296f198	Service Type:Cloud Connect Current Configuration: Region:Global	(F) Disabled		Current: Jan 13, 2024 New: Mar 13, 2024 23		\$127.52 USD
Renewal Duration 1 month 2 mor		nths 6 months 7 months	8 months 9 mont	ns 1 year 🛅	2 years 🖬	3 years 💼
	standard renewal date, the 1st of every month at 2 he expiration date to Renewal Date, the expenditu		wal days in the Renewal Du	ration column.		

Step 7 Select a payment method and make your payment. Once the order is paid for, the renewal is complete.

----End

Renewing a Subscription in Billing Center

- **Step 1** Log in to the management console.
- **Step 2** Hover over **Billing & Costs** in the upper part of the console and choose **Renewal** from the drop-down list.

The **Renewals** page is displayed.

Step 3 Set the search criteria.

On the **Manual Renewals**, **Auto Renewals**, **Pay-per-Use After Expiration**, and **Renewals Canceled** pages, you can view the resources to be renewed.

Figure 6-3 Renewal management

Expires Expires in 30 days Expires	s in 15 days Expires in 7 days Cust	om 2024-01-11 - 2024-01-17	🛗 Status	Provisioned Expired	Frozen		
Do not show resources that have ord	ers pending payment 📃 Do not show	resource packages 🔻					
Q Instance ID/Resource ID is used to	o search by default.						
Manual Renewals (1) Auto Re	enewals (0) Pay-per-Use After	r Expiration (0) Renewals	Canceled (0)				
Manual Renewals (1) Auto Re Batch Renew Enable Auto-Re				Batch Export			Export All: 1
		ter Expiration Cancel Renew	al Set Renewal Date	Batch Export	Status	Validity Period	Export All: 1
Batch Renew Enable Auto-Re	enew Change to Pay-per-Use Alt	ter Expiration Cancel Renew	al Set Renewal Date Project V Provision Dec 13, 20		Status	Validity Period 31 days until exp (grace period)	Operation

You can move all resources that need to be manually renewed to the **Manual Renewals** tab. For details, see **Restoring to Manual Renewal**.

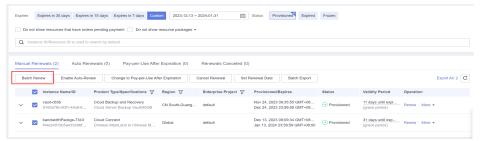
- Step 4 Manually renew resources.
 - Individual renewal: Click **Renew** in the **Operation** column for the desired resource.

Figure 6-4 Individual renewal

□ De not show resources that have orders prending payment. □ De not show resource packages + Q Instance IDRessource ID Is used to search by default. Manual Renewals (1) Auto Renewals (0) Pay-per-Use After Expiration (0) Renewals Canceled (0) Batch Renew Cancel Auto Renewals Canceled After Expiration Cancel After Expiration Cancel After Expiration Cancel Renewal Canceled Can	Expires Expires in 30 days Expire	s in 15 days Expires in 7 days Custo	2024-01-11 - 2024-01-17	tit Status	Provisioned Expire	d Frozen		
Manual Renewals (1) Auto Renewals (0) Pay-per-Use After Expiration (0) Renewals Canceled (0) Batch Renew Enstein Auto-Renew Cancer Renewal Set Renewal Date Batch Export Export Alt 1 C Instance NameND Product Type/Specifications T/R Region T/V Enterprise Project T/V Provisioned/Bitspires Status Validity Period Operation Imatematic NameND Product Type/Specifications T/V Region T/V Enterprise Project T/V Provisioned/Bitspires Status Validity Period Operation	Do not show resources that have or	ters pending payment 📃 Do not show i	resource packages 👻					
Batch Renew Enable Auto-Renew Change to Pay-per-Use After Expention Cancel Renewal Set Renewal Date Batch Expent Expent At: 1 C Instance Renewal Product Type/ExpendenceTons Type/ExpendenceTon	Q Instance ID/Resource ID is used t	o search by default.						
Instance NameND Product Type/Specifications ⊽ Region ⊽ Enterprise Project ⊽ ProvisionedExpires Status Validity Period Operation > bmdwdftPiddop-7543 Cloud Connect cpan Market Dec 12, 202 00/01/34 GMT-08 Genetatione 31 days utile exp Topological Status 31 days utile exp Topological Topologic	Manual Renewals (1) Auto Re	enewals (0) Pay-per-Lise After	Evolution (0) Bonoural	Concelled (0)				
bandwith/Packger/343 Cloud Connect picture and the picture Dec 13, 2023 05:09:34 GMT+08 (http://www.state.org/abs/state.org/a			Expiration (0) Renewal	s canceled (c)				
	Batch Renew Enable Auto-R				Batch Export			Export All: 1 C
		enew Change to Pay-per-Use After	er Expiration Cancel Rene	wal Set Renewal Da		Status	Validity Period	Export All: 1

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

Figure 6-5 Batch renewal



Step 5 Select a renewal duration and optionally select Renew on the standard renewal date. For details, see Setting the Same Renewal Day for Yearly/Monthly Resources. Confirm the price and click Pay.

Figure 6-6 Confirming renewal

Renew						
	ions before its renewal period takes effect, the renewal perio gible for a 5-day unconditional unsubscription.	od cannot be unsubscribed fro	n.			
Instance Name/ID	Product Information	Auto-Renew 🥐	Renewal Duration	Expiration Time		Fee
bandwidthPackge-7343 f44e24072b5a433296f198	Service Type:Cloud Connect Current Configuration: Region:Global	E Disabled	2 months	Current: Jan 13, 2024 : New: Mar 13, 2024 23:		\$127.52 USD
Renewal Duration	is 3 months 4 months 5 months	6 months 7 months	8 months 9 mc	inths 1 year 🗖	2 years 🗔	3 years 🗉
	indard renewal date, the 1st of every month at 23:59:59 GM expiration date to Renewal Date, the expenditures will be a		wal days in the Renewal	Duration column.		
Price: \$127.52 USD ③						Pay

Step 6 Select a payment method and make your payment. Once the order is paid for, the renewal is complete.

----End

Setting the Same Renewal Day for Yearly/Monthly Resources

If your bandwidth packages have different expiry dates, you can set the same renewal day, for example, the first day of each month, to make it easier to manage renewals.

In **Figure 6-7**, a user sets the same renewal day for two resources that will expire at different dates.

Figure 6-7 Setting the same renewal day for resources with different expiry dates

Procedure	1. Configure a renewal date. 2. Select resources for operations. 3. Renew to the renewal of	date.
Rules	For example, the renewal date is the 1 day of each month. Resource A Expiration: April 17 Expiration: June 01	
	Resource B Renewal for 1 month Additional renewal for 24 days Expiration: July 0 May 08	1

For more details, see Setting a Renewal Date.

6.3 Auto-renewing a Global Connection Bandwidth

Auto-renewal can prevent resources from being automatically deleted if you forget to manually renew them. The auto-renewal rules are as follows:

- The first auto-renewal date is based on when the bandwidth package expires and the billing cycle.
- The auto-renewal period of a bandwidth package varies depending on how you enable auto-renewal.
- You can enable auto-renewal at any time before a bandwidth package expires. By default, the system will make the first attempt to charge your account for the renewal at 03:00 seven days before the expiry date. If this attempt fails, it will make another attempt at 03:00 every day until the subscription is renewed or expires.
- After auto-renewal is enabled, you can still renew the bandwidth package manually if you want to. After a manual renewal is complete, auto-renewal is still valid, and the renewal fee will be deducted from your account seven days before the new expiry date.
- By default, the renewal fee is deducted from your account seven days before the new expiry date. You can change this auto-renewal payment date as required.

For more information about auto-renewal rules, see Auto-Renewal Rules.

Prerequisites

The bandwidth package has not expired.

Enabling Auto-Renewal During Purchase

You can enable auto-renewal on the bandwidth package purchase page. For details, see **Buying a Bandwidth Package**.

Figure 6-8 Enabling auto-renew



The auto-renewal period of a bandwidth package depends on the subscription term.

- Monthly subscriptions renew each month.
- Yearly subscriptions renew each year.

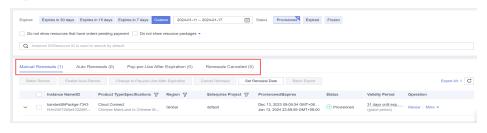
Enabling Auto-Renewal on the Renewals Page

- **Step 1** Log in to the management console.
- **Step 2** Hover over **Billing & Costs** in the upper part of the console and choose **Renewal** from the drop-down list.

The **Renewals** page is displayed.

- **Step 3** Set the search criteria.
 - You can view the resources for which auto-renewal has been enabled on the **Auto Renewals** page.
 - You can enable auto-renewal for resources on the Manual Renewals, Payper-Use After Expiration, and Renewals Canceled pages.

Figure 6-9 Renewals



Step 4 Enable auto-renewal for yearly/monthly resources.

• Enabling auto-renewal for a single resource: Select the bandwidth package for which you want to enable auto-renewal and choose **More** > **Enable Auto-Renew** in the **Operation** column.

Figure 6-10 Enabling auto-renewal for a single resource

Egmine 10 deps Epiteen 15 deps Epiteen 15 deps Comme 2014-131-2014-131 🕒 Solina Providence Epited Freeze							
🛛 Do inst show resources that have orders pending payment 🔄 Da not show resources packages +							
Q Instance ID/Resource ID is used to seen	h by default.						
Ianual Renewals (1) Auto Renewa	als (0) Pay-per-Use After Expiration (0) Renew	wals Canceled (0)					
Batch Renew Enable Auto-Renew	Change to Pay-per-Use After Expiration Cancel Re	enoval Set Reneval Date	Batch Export				Export All:
Instance NameND	Product Type/Specifications 👕	Region 🏆	Enterprise Project 😨	Provisioned/Expires	Status	Validity Period	Operation
Instance NameID bandwidtPackge-7343 144e24072b5e433296119859944	Cloud Connect	Region 😨 Giobal	Enterprise Project 🖓 default	Provisioned/Expires Dec 13, 2023 09:09:34 GMT+00:00 Jan 13, 2024 23:59:59 GMT+00:00	Status	31 days until expiration (proce period)	Renew More .
bandvidthPackge-7343	Cloud Connect			Dec 13, 2023 09:09:34 GMT+00:00		31 days until expiration	Renew More .
bandvidthPackge-7343	Cloud Connect			Dec 13, 2023 09:09:34 GMT+00:00		31 days until expiration (proce sector) Enable Auto-Renew	Renew More .

• Enabling auto-renewal for multiple resources at a time: Select the bandwidth packages for which you want to enable auto-renewal and click **Enable Auto-Renew** above the list.

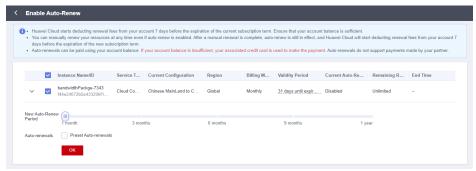
Figure 6-11 Enabling auto-renewal for multiple resources

	200 2019-2014-511) Sons Paulium C Gane Found
🔽 Instance NamefD Product Type/Specifications 🖓 Region 🖗 Enterprise Project 🖗 Provisioned/Expires Status Waldry Period Operation	ifications V Region V Enterprise Project V Provisioned/Expires Status Validity Period Operation
V Web (b) 0353/17-0375-4162-5163-512-5164 Courd Backgrand Revery Courd Server Decksy Variet1000 Cfl. Server Gauge Server Courd Server Decksy Variet1000 Decks Variet Server Decks V2023 219 59 Self-14-620 Diff decision of the server (grand period) Decks Variet Server Decks V2023 219 59 Self-14-620 Diff decision of the server (grand period) Decks Variet Variet Server (grand period) Decks Variet Server (grand period) <thdecks server<br="" variet="">(grand period</thdecks>	
V Standard Theorem Standard Construction Sta	

Step 5 Select a renewal period, specify the auto-renewal times, and click **OK**.

If auto-renewal is enabled on the **Renewals** page, the auto-renewal period is subject to the selected renewal period and number of auto-renewals. For example, if you select three months renewal period and do not select **Preset Autorenewals**, your subscription is automatically renewed for three months before each expiration.

Figure 6-12 Enabling auto-renew



----End

7 Bills

You can view the resource usage and bills for a different billing cycles on the **Bills** page in the Billing Center.

Billing Generation

- Yearly/Monthly: Transaction records for yearly/monthly subscriptions are generated immediately after being paid for.
- Pay-per-use: A pay-per-use resource is billed by the hour, day, or month, depending on the resource's usage type. The usages of global connection bandwidths and connections between enterprise routers are billed by the hour. For details, see Bill Run for Pay-per-Use Resources.

You are not charged immediately after a record is generated. For example, if a pay-per-use global connection bandwidth billed on an hourly basis is deleted at 08:30, you will still have expenditures for the 08:00 to 09:00 hour. However, but you will not likely be billed for the 08:00 to 09:00 hour until about 10:00. In the Billing Center, choose **Billing** > **Expenditure Items** in the left navigation pane, **Expenditure Time** in the bill indicates the time when the pay-per-use or spot pricing resource is used.

Viewing Bills of a Specific Resource

Step 1 Log in to the management console and choose **Networking > Cloud Connect**.

The **Cloud Connect** page is displayed.

- **Step 2** In the navigation pane on the left, choose **Cloud Connect** > **Bandwidth Packages**.
- **Step 3** Click the icon shown in the figure below to copy the resource ID.

Figure 7-1 Copying the resource ID

 Link
 Marketiky:
 Compute Repire 1
 State 1
 Billing Mark 1
 Did by 1
 Conf Control 1
 UnsetState Ended MB Mark 1
 Dispersion 1
 Dispersion

Step 4 On the top menu bar, choose **Billing & Costs** > **Bills**.

The **Bills** page is displayed.

Step 5 Choose **Billing** > **Expenditure Details** in the left navigation pane. Select **Resource**

ID as the filter criteria, enter the resource ID obtained in Step 3, and click the icon.

Figure 7-2 Searching for a bill



By default, the bill details are displayed by usage and billing cycle. You can choose other display options as required. For details, see **Bills**.

----End

Checking the Consistency of the Actual Usage and Billed Usage

Assume that you purchased a 150-Mbit/s global connection bandwidth (billed by fixed bandwidth) at 08:23:10 on April 18, 2023 and deleted the bandwidth at 09:23:10 on April 18, 2023.

• Global connection bandwidth transaction records

The usage of pay-per-use global connection bandwidths is calculated by the second and billed on an hourly basis. You can check the expenditure items against the actual usage. For details, see **Table 7-1**.

Service	Cloud Connect
Resource Type	Global connection bandwidth
Billing Mode	Pay-per-use
Expendit ure Time	 For the period of time from 08:23:10 to 09:23:10 on April 18, 2023, two transaction records would be generated for the resource usage in the following periods: From 08:23:10 to 09:00:00 From 09:00:00 to 09:23:10
List Price	List price on the official website = Unit price x Usage In this example, the bandwidth was used for 2,210 seconds in the first period, and the unit price was $0.1 USD/Mbit/s$ per hour. The list price is calculated as follows: (2,210 ÷ 3,600) x 0.1 USD x 150 = 9.2083 USD Similarly, you can calculate the list price for the other usage period.

Table 7-1 Global connection bandwidth transaction records

Discount ed Amount	Discounts offered for cloud services, for example, commercial discounts, partner authorized discounts, and promotional discounts. It is the discounted amount based on the list price.
Truncate d Amount	Huawei Cloud billing is calculated to the 8th decimal place. However, the amount due is truncated to the 2nd decimal place. The third and later decimal places are referred to as the truncated amounts. Take the first period as an example. The truncated amount is \$0.0083 USD.
Amount Due	Amount due = List price – Discounted amount – Truncated amount Take the first usage period as an example. If the discounted amount is 0, the amount due is \$9.20 USD (\$9.2083 USD – \$0 USD – \$0.0083 USD).

• Global connection bandwidth bill details

Expenditure details can be displayed in multiple ways. By default, the bill details of a resource are displayed by usage and by billing cycle. Table 7-2 illustrates the bill details, which can be used to check against the actual usage.

Table 7-2 Globa	l connection	bandwidth	bill details
-----------------	--------------	-----------	--------------

Service	Cloud Connect
Resource Type	Global connection bandwidth
Billing Mode	Pay-per-use
Resource Name/ID	Name and ID of the global connection bandwidth Example: bandwidth-GPB, eda64ab4- fbb0-4d2c-8a43-6f8a24df31fe
Specificati ons	Gold bandwidth from CN Southwest-Guiyang1 to CN East- Shanghai1
Usage Type	How long the global connection bandwidth is used
Unit Price	When pay-per-use billing is used, the unit price is only provided if the amount is equal to the usage multiplied by the unit price. Global connection bandwidths support only pay-per-use billing.
Unit	Unit price: \$ <i>xx.xx</i> USD/Mbit/s per hour

Usage	Global connection bandwidth usage is billed by the hour. In this example, the global connection bandwidth was used for 1 hour.
Usage Unit	Hour
List Price	List price on the official website = Unit price x Usage The bandwidth was used for 1 hour, and the unit price is \$0.1 USD/Mbit/s per hour. Official website price = \$0.1 USD x 150 = \$15 USD Similarly, you can calculate the list price for the other usage period.
Discounte d Amount	Discounts offered for cloud services, for example, commercial discounts, partner authorized discounts, and promotional discounts. It is the discounted amount based on the list price.
Amount Due	Amount that should be paid for used cloud services after discounts are applied.

8 Arrears

If there is not a sufficient account balance to pay for your bill and there is no other payment method configured, your account will go into arrears. If you want to continue using your cloud services, you will need to update your payment method or to top up your account in a timely manner.

Arrears Reason

Your account falls into arrears at any time your configured payment method is unable to pay for the used resources on the pay-per-use basis.

Impact of Arrears

Yearly/Monthly

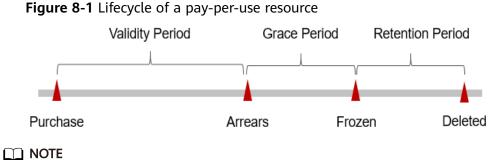
This is a pre-paid billing mode, so you can continue using yearly/monthly bandwidth packages even if your account is in arrears. However, you cannot perform operations such as changing the bandwidth or renewing the bandwidth package, because they will generate new expenditures.

• Pay-per-use

If your configured payment method is unable to pay a bill for pay-per-use resources, the resources enter a grace period. After you top up your account, Huawei Cloud will bill you for expenditures generated by the resources during the grace period. You can view the expenditures on the **Overview** page of the Billing Center.

If your account is still in arrears after the grace period ends, the resources enter the retention period and their status turns to **Frozen**. You cannot perform any operations on these resources.

After the retention period ends, global connection bandwidths used by crosssite connections and connections between enterprise routers will be released and cannot be restored.



For details about the grace period and retention period, see What Is a Grace Period of Huawei Cloud? How Long Is It? and What Is a Retention Period of Huawei Cloud? How Long Is It?

Avoiding and Handling Arrears

Make sure that your account has sufficient balance to pay your amount due. For details, see Topping up an Account.

If a cloud service resource is no longer used, you can delete it and its associated resources to avoid generating further expenditures.

To help make sure your account never falls into arrears, you can configure the Balance Alert on the Overview page of the Billing Center. Anytime an expenditure quota drops to below the threshold you specify, Huawei Cloud automatically notifies you by SMS or email.

9 Billing Termination

Yearly/Monthly Resources

When you purchase a yearly/monthly bandwidth package, you make a one-time up-front payment. By default, the billing automatically stops when the purchased subscription expires.

- If you no longer need a bandwidth package, but the subscription has not yet expired, you can unsubscribe from it. Depending on what coupons were used for the purchase and on if 5-day unconditional unsubscription rules apply, Huawei Cloud may issue you a refund. For details about unsubscription rules, see Unsubscriptions.
- If you have enabled auto-renewal but no longer wish to automatically renew the subscription, disable it before the auto-renewal date (7 days before the expiration date by default) to avoid unexpected expenditures.

Pay-per-Use Resources

If global connection bandwidths or connections between enterprise routers are no longer required, delete them in a timely manner to stop billing.

Searching for Resources from Bills and Stopping Billing

To ensure that all related resources are deleted, you can search the billing records by resource ID, and then delete the resources you identify in this way.

Search for the billed bandwidth package by ID.

Step 1 On the top menu bar, choose **Billing & Costs > Bills**.

The **Dashboard** page is displayed.

Step 2 On the **Expenditure Details** page of the Billing Center, click the icon shown in the following figure to copy the resource ID.

Figure 9-1 Copying the resource ID

Billing Cycle D	ec 2023 🔹								
Usage	Resource	Resource	е Туре	Service Type	Account	Display Op	biling cycle	🔵 By day 🤇	Details 🕐
Service Type: 0	Cloud Connect (CC)	I 🕲 🗸 Add	filter						
Billing Cycle	Enterpr 🍸	Accou 🍞	Service 🍞	Resour 🍞	Billing 7	Bill Type 🍞	Resource Name/ID	Resource Tag	Specificatio
Dec 2023	default		Cloud Conn	Bandwidth P	Yearly/Mont	Expenditure	bandwidthPackge-7343 🗇 f44e24072b5a433296f1985994c49246 🗗		Chinese Mai

- **Step 3** Log in to the management console and select the region where the bandwidth package is located.
- **Step 4** Choose **Networking > Cloud Connect**.
- **Step 5** In the navigation pane on the left, choose **Cloud Connect** > **Bandwidth Packages**.
- **Step 6** Select **ID** from the filter criteria and enter the copied resource ID. Click the icon to search for the resource.

Figure 9-2 Searching for the resource

NameliD 💠	Applicability ‡	Geographic Region ¢	Status ‡	Billing Mode 💠	Billed By 💠	Cloud Connection ¢	Used/Total Bandwidth (M 🔅	Enterpri ¢	Operation
bandwidthPackge-7343 144e24072b5e43329611985994c49246	Single geographic region	Chinese mainland	Normal	Bandwidth(CS23121309082E	Yearly/Monthly 29 days unti	-	0/2	default	Modify Bandwidth Bind More +

Step 7 Choose **More** > **Unsubscribe** in the **Operation** column to delete the bandwidth package. Ensure that the bandwidth package does not exist in the list.

D NOTE

- Before unsubscribing from a bandwidth package, unbind it from the cloud connection.
- Before deleting a global connection bandwidth, unbind it from the cross-site connection.
- You are billed one hour after the resource usage is calculated, so a bill may still be generated after the pay-per-use resource is deleted. For example, if you delete a global connection bandwidth (which is billed on an hourly basis) at 08:30, the expenditures for that hour from 08:00 to 09:00 are usually not billed until about 10:00.

----End

10 Cost Management

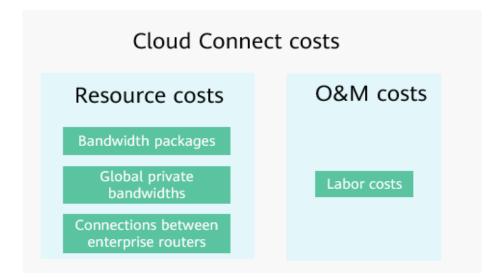
As you migrate more of your services to the cloud, managing cloud costs becomes more important. For example, you may be more concerned with cost management when using Cloud Connect. This topic describes how you can manage costs in terms of cost composition, allocation, analysis, and optimization. Optimizing costs can help you maximize return on investment.

Cost Composition

Cloud Connect costs consist of two parts:

- Resource costs: cost of resources and resource packages, depending on the billing items of Cloud Connect. For details, see **Billed Items**.
- O&M costs: labor costs incurred during the use of Cloud Connect.

Figure 10-1 Cloud Connect costs



Huawei Cloud **Cost Center** helps you manage resource costs with ease. However, you need to identify, manage, and optimize O&M costs by yourself.

Cost Allocation

A good cost accountability system is a prerequisite for cost management. It ensures that departments, business teams, and owners are accountable for their respective cloud costs. An enterprise can allocate cloud costs to different teams or projects so that you can have a clear picture of their respective costs.

Huawei Cloud **Cost Center** provides various tools for you to group costs in different ways. You can experiment with these tools and find a way that works best for you.

• By linked account

The enterprise master account can manage costs by grouping the costs of its member accounts by linked account. For details, see **Viewing Costs by Linked Account**.

• By enterprise project

Before allocating costs, enable Enterprise Project Management Service (EPS) and plan your enterprise projects based on your organizational structure or service needs. When purchasing cloud resources, select an enterprise project so that the costs of the resources will be allocated to the selected enterprise project. For details, see Viewing Costs by Enterprise Project.

Figure 10-2 Selecting an enterprise project for a cloud connection bandwidth package

★ Enterprise Project	-Select	•	C ⑦ Create Enterprise Project
Cloud Connection	Bind now	Bind later	
	-Select	•	

• By cost tag

You can use tags to sort your Huawei Cloud resources in a variety of different ways, for example, by purpose, owner, or environment. The following is the process of managing costs by predefined tags (recommended).



Figure 10-3 Adding tags to a cloud connection bandwidth package

Tag	It is recommended that you use TMS's p	predefined tag function to add the sam	ne tag to different cloud resources. View predefined tags	С
	Tag key	Tag value		
	You can add 20 more tags.			

For details, see Viewing Costs by Cost Tag.

• By cost category

You can use cost categories provided by **Cost Center** to split shared costs. Shared costs are the costs of resources (compute, network, storage, or resource packages) shared across departments or the costs that cannot be directly split by cost tag or enterprise project. These costs are not directly attributable to a singular owner, and they cannot be categorized into a singular cost type. In this case, you can define cost splitting rules to fairly allocate these costs among teams or business units. For details, see **Viewing Cost by Cost Category**.

Cost Analysis

To precisely control and optimize your costs, you need a clear understanding of what parts of your enterprise incurred different costs. **Cost Center** visualizes your original costs and amortized costs using various dimensions and display filters for cost analysis so that you can analyze the trends and drivers of your service usage and costs from a variety of perspectives or within different defined scopes.

You can also use cost anomaly detection provided by **Cost Center** to detect unexpected expenses in a timely manner. In this way, costs can be monitored, analyzed, and traced.

For details, see **Performing Cost Analysis to Explore Costs and Usage** and **Enabling Cost Anomaly Detection to Identify Anomalies**.

Cost Optimization

• Cost control

You can create different types of budgets on the **Budgets** page of Cost Center to track your costs against the budgeted amount you specified. If the budget thresholds you defined are reached, Cost Center will send alerts to the recipients you configured. You can also create budget reports and specify recipients to receive budget alerts if any at a frequency you configured.

Suppose you want to create a monthly budget of \$2,000 USD for using Cloud Connect and expect to receive an alert if the forecasted amount exceeds 80% of the budgeted amount. You can refer to the following budget information.

Budget Details * Budget Name CC-2000 * Reset Period Daily Quarterly Yearly Budget evaluation begins at * Budget Duration Recurring Expiring * Start Time 2023/12 Ħ * Allocation Fixed Monthly Dynamic Last month's cost: \$353.54 USD * Budgeted Amount 2000 (USD)

Figure 10-4 Basic budget information

Figure 10-5 Defining the budget scope

Budget Scope

Alerts are unavailable for the current month cost of mo

Service Type	Include	
Cloud Connect (CC) 💿		1
Linked Account	All	*
Region	All	•
PayerAccount Name	All	•
Specifications	All	•
Usage Type	All	•
Cost Tag	All	•
Cost Categories	All	•
Enterprise Project	All	•
Business Entity	All	•
Bill Type	All	•
Billing Mode	Include	
Yearly/Monthly 💿 Pay-per-U	Jse 🛞	2
AZ	All	•
Show Less		

Figure 10-6 Setting a budget alert

Thresholds	Actual > • 80	(%) of budgeted amou 🔻	Alerts are sent when the actual cost is higher than 80% (\$1,600.00) of the forecasted cost.
	€ Add threshold		
Recipients	€ Select From Contacts		

For details, see Creating Forecasts and Budgets to Track Costs and Usage.

• Resource rightsizing

Cloud Eye helps you monitor resource usage, identify idle resources, and find opportunities to save costs. You can also identify resources with high costs based on **Cost Analysis**, and then take optimization measures accordingly.

- Monitor resource usage and evaluate whether the current configuration is more than you need. For example, you can monitor the bandwidth usage.
- Detect idle resources to avoid waste. For example, there may be global private bandwidths that are not bound to any instance.

• O&M automation

Huawei Cloud also provides various O&M products to help you improve O&M efficiency and reduce labor costs. The following are examples of such products:

- Auto Scaling: You can automatically and continuously maintain pay-peruse bandwidths. Use this service when there is a clear distinction between peak and off-peak workloads.
- Auto Launch Group: In just a few clicks, you can deploy instance clusters that use different billing modes, are distributed across AZs, and have different instance specifications. Use this method when stable computing power needs to be quickly delivered and spot instances need to be used to reduce costs.
- Resource Formation Service: Resource stacks with multiple cloud resources and dependencies can be deployed and maintained with just a few clicks. Use this service to deliver the entire system or clone an environment.
- Application Operations Management: Groups of O&M operations can be defined as services to make it much easier to execute various O&M tasks. Use this service for scheduled O&M, batch O&M, and cross-region O&M.