Virtual Private Network

Billing

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1 Overview of VPN Billing

In this document, you will learn about how the Virtual Private Network (VPN) service is billed, how you can renew subscriptions and manage costs, and what will happen if your account goes into arrears.

- **Billing modes**

  VPN supports the yearly/monthly and pay-per-use billing modes. You can select one according to your requirements.

  – Yearly/Monthly billing is a prepaid billing mode. You pay in advance for a subscription term. Before purchasing yearly/monthly resources, make sure you have a top-up account with a sufficient balance.

  – Pay-per-use billing is a postpaid billing mode. You pay for the amount of time you use VPN resources or for the amount of traffic you generate.

  For details about the two billing modes, see **VPN Billing Overview**.

  You can change the billing mode if it no longer meets your needs. Only S2C VPN supports billing mode change. For details, see **Billing Mode Changes in S2C Enterprise Edition VPN**.

  NOTE

  The billing modes available for a region are subject to those displayed on the page.

- **Billing items**

  – S2C VPN

    ▪ Enterprise Edition VPN: The billing items include VPN gateways, VPN connections, elastic IP address (EIP) bandwidth, and enterprise routers.

  – P2C VPN: The billing items include VPN gateways, VPN connections, and EIP bandwidth.

  For details about the billing factors and formulas for each billing item, see **Billing Items of S2C Enterprise Edition VPN** and **Billing Items of P2C VPN**.

  For details about a billing example and the billing of each item in different billing modes, see **Billing Example for S2C Enterprise Edition VPN**.

- **Renewal**

  Yearly/monthly VPN is unavailable after the subscription expires. To continue using the VPN service, renew the subscription before it expires. Otherwise,

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VPN resources will be automatically released, and your data may be lost. You can renew your subscription manually or automatically. For more information, see **Renewal Overview**.

- **Bills**

  You can choose **Billing Center** > **Billing** to check VPN 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 VPN resources, top up your account in a timely manner. For details, see **Arrears**.

- **Stopping billing**

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

Product Pricing

To quickly learn about pricing of the VPN service, see **VPN Pricing Details**.

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2 S2C Enterprise Edition VPN

2.1 Billing Modes

2.1.1 Overview

VPN supports the yearly/monthly and pay-per-use billing modes. You can select one according to your requirements. To quickly learn about pricing of the VPN service in different billing modes, see **VPN Pricing Details**.

S2C Enterprise Edition VPN supports the yearly/monthly and pay-per-use billing modes.

NOTE

The billing modes available for a region are subject to those displayed on the page.

- Yearly/Monthly is a prepaid billing mode. You pay in advance for a subscription term, and in exchange, you get a discounted rate. The longer the subscription term, the bigger the discount. Yearly/Monthly billing is a good option for long-term, stable services.
- Pay-per-use is a postpaid billing mode. You pay for the amount of time you use VPN resources or for the amount of traffic you generate. This allows you to adjust resource usage easily. You neither need to prepare for resources in advance, nor end up with excess or insufficient preset resources. This billing mode is a good option for scenarios where there are traffic bursts.

Table 2-1 lists the differences between the two billing modes.

Table 2-1 Billing modes of S2C Enterprise Edition VPN

Billing Mode	Yearly/Monthly	Pay-per-use (billed by bandwidth)	Pay-per-use (billed by traffic)

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Payment	Prepaid Settled by the subscription term you purchase	Postpaid Billed based on your specified EIP bandwidth and usage duration (there is no limit on how much traffic you can use.)	Postpaid Billed based on your specified EIP type and your total amount of traffic leaving the cloud
Billing Cycle	Billed by the subscription term you purchase	Billed by the second and settled every hour	Billed by the second and settled every hour

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Billing Item			
	• VPN gateway: You need to make a one-off payment for using gateway instances in a selected period of time. • VPN connection: Two connections of the same customer gateway to the cloud form a connection group. By default, 10 VPN connection groups are included free of charge with the purchase of a VPN gateway. You can purchase additional VPN connection groups (sold in units of 10) as required. • EIP bandwidth: You need to purchase EIP bandwidth only in public network scenarios. You need to make a one-off payment for the EIP bandwidth you specify in a certain period of time. There is no limit on how much traffic you can use. • Enterprise router: You will be charged for using an	• VPN gateway: You are charged for using gateway instances in the period of time you use them. • VPN connection: You can purchase connection groups (sold in units of 1) as required. • EIP bandwidth: You need to purchase EIP bandwidth only in public network scenarios. You are charged for the outbound bandwidth, that is, bandwidth for traffic sent from a VPC on the cloud to a customer gateway in your on-premises data center. – If the purchased bandwidth is 10 Mbit/s or less, the inbound bandwidth is limited to 10 Mbit/s. – If the purchased bandwidth is greater than 10 Mbit/s, the inbound bandwidth is the same as the purchased bandwidth. • Enterprise router: You will be charged for using an enterprise router only when you attach a VPN gateway to it. The enterprise router fee consists of the enterprise router connection fee and enterprise router	• VPN gateway: You are charged for using gateway instances in the period of time you use them. • VPN connection: You can purchase connection groups (sold in units of 1) as required. • EIP traffic: You need to purchase EIP traffic only in public network scenarios. You are charged for the traffic generated in every hour, with the billing unit being 1 GB. If less than 1 GB is generated, the fee is calculated based on the actually generated traffic volume. Adjusting the bandwidth does not change the public network traffic price per GB. Only traffic leaving the cloud is billed. • Enterprise router: You will be charged for using an enterprise router only when you attach a VPN gateway to it. The enterprise router fee consists of the enterprise router connection fee and enterprise router traffic fee. For details, see **Billing** of the enterprise router service.

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	enterprise router only when you attach a VPN gateway to it. The enterprise router fee consists of the enterprise router connection fee and enterprise router traffic fee. For details, see **Billing** of the enterprise router service.	traffic fee. For details, see **Billing** of the enterprise router service.	
Changing the Billing Mode	The billing mode cannot be changed.	Pay-per-use can be changed to yearly/monthly. The change takes effect immediately. Enterprise Edition VPN: Refer to **2.4.2 Changing the Billing Mode of a Pay-Per-Use VPN Gateway to Yearly/Monthly**.	Pay-per-use can be changed to yearly/monthly. The change takes effect immediately. Enterprise Edition VPN: Refer to **2.4.2 Changing the Billing Mode of a Pay-Per-Use VPN Gateway to Yearly/Monthly**.
Changing the Quotas	• The EIP bandwidth can be increased or decreased. • The number of VPN connection groups can be increased or decreased. • The specification of a VPN gateway can be upgraded.	The EIP bandwidth can be increased or decreased.	The EIP bandwidth can be increased or decreased. **NOTE** The bandwidth is used only for rate limiting, so the bandwidth setting does not affect the fee incurred.
Application Scenarios	• Recommended for scenarios with predictable usage period • Long-term use	• Recommended for scenarios with heavy or stable traffic • Fluctuating demand for resources	• Recommended for scenarios with light or sharply fluctuating traffic • Fluctuating demand for resources

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2.1.2 Yearly/Monthly Billing

If you expect to use resources for a long period, you can save money by selecting yearly/monthly billing. This section describes the billing rules for yearly/monthly VPN resources.

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 blog websites
- 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

Billing Items

Yearly/Monthly VPN is billed based on your purchased duration, bandwidth, and number of VPN connections (or connection groups).

Billing Cycle

Yearly/Monthly VPN is billed for the purchased duration (UTC+08:00). The billing starts when you activate or renew the subscription (accurate to the second), and ends at 23:59:59 of the expiry date.

For example, if you purchased a one-month Enterprise Edition VPN gateway at 15:50:04 on March 08, 2024, the billing cycle is from 15:50:04 on March 08, 2024 to 23:59:59 on April 08, 2024.

Billing Example

Suppose you purchased a one-month Enterprise Edition VPN gateway (associated with an enterprise router; specification: Professional 1; number of VPN connection groups: 20; bandwidth: 20 Mbit/s) at 15:50:04 on March 08, 2024, and renewed the subscription for one more month before the initial subscription expired. The following usage periods will be billed:

- 15:50:04 on March 08, 2024 to 23:59:59 on April 08, 2024
- 23:59:59 on April 08, 2024 to 23:59:59 on May 08, 2024

You will be billed for both usage periods. VPN resources of different types are billed individually, as described in **Table 2-2**.

Table 2-2 Billing formulas

Resource	Billing Formula	Unit Price
VPN gateway	USD/month per VPN gateway	Refer to **VPN Pricing Details**.

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Resource	Billing Formula	Unit Price
VPN connection group	USD/month per 10 VPN connection groups	Refer to **VPN Pricing Details**.
EIP	USD/month per Mbit/s	Refer to **EIP Pricing Details**.
Enterprise router	Enterprise router connection fee (USD/hour) + Enterprise router traffic fee (USD/GB)	Refer to **Enterprise Router Pricing Details**.

Price Change After Quota Change

If the quotas of yearly/monthly VPN resources no longer meet your needs, you can change the quotas on the management console. The system will recalculate the price and either bill or refund you the difference.

NOTE

In yearly/monthly billing mode, S2C Enterprise Edition VPN supports specification change.

- Quota increase: You will be billed the difference.
  - If you increase the EIP bandwidth, the new bandwidth takes effect immediately in the current billing cycle.
  - If you increase the number of VPN connections or VPN connection groups, the new quota takes effect immediately in the current billing cycle.
  - If you upgrade the specification of a VPN gateway, access via non-fixed IP addresses takes effect immediately in the current billing cycle.
- Quota decrease: We will refund you the difference.
  - If you decrease the EIP bandwidth, the new bandwidth does not take effect in the current billing cycle. You need to select a renewal duration and will be billed based on the new bandwidth. The change will take effect from the next billing cycle.
  - If you decrease the number of VPN connection groups, the new number of VPN connection groups takes effect immediately.

The following provides a quota increase example where no discounts are available. Suppose you purchased a one-month Enterprise Edition VPN gateway (associated with an enterprise router; specification: Professional 1; number of VPN connection groups: 20; bandwidth: 20 Mbit/s) on April 08, 2024, and increased the quotas to 30 VPN connection groups and 30 Mbit/s bandwidth on April 18, 2024 (with other settings unchanged). The price of the original quotas is $826 USD per month (excluding the price of the pay-per-use enterprise router), and that of the new quotas is $1232 USD per month (excluding the price of the pay-per-use enterprise router). The price difference is calculated as follows:

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Price difference for the quota increase = (Price of the new quotas x Remaining service period) – (Price of the original quotas x Remaining service period)

The remaining service period is the sum of the remaining days in each calendar month divided by the maximum number of days in the corresponding calendar month. In this example:

Remaining service period = 12 (Remaining days in April)/30 (Maximum number of days in April) + 8 (Remaining days in May)/31 (Maximum number of days in May) = 0.6581

So,

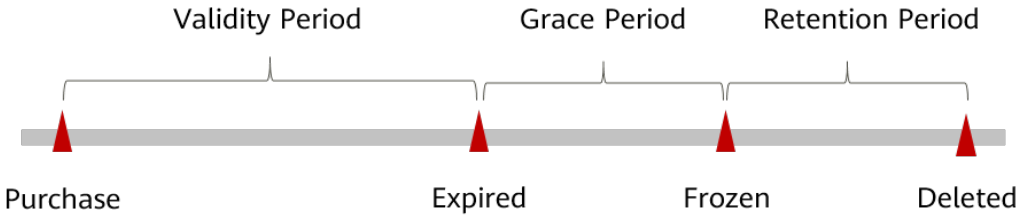
Price difference = ($1232 USD x 0.6581) – ($826 USD x 0.6581) = $267.19 USD

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

Impact of Expiration

Figure 2-1 shows the states that yearly/monthly VPN resources can go through throughout the lifecycle. After VPN resources are purchased, they enter the validity period and run normally during this period. If the VPN resources are not renewed before they expire, they first enter a grace period and then a retention period.

Figure 2-1 Lifecycle of yearly/monthly VPN resources



Expiration Reminder

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

Impact of Expiration

If your yearly/monthly VPN resources are not renewed before they expire, they will transition to the **Expired** state and enter a grace period upon expiration. During the grace period, you can access VPN resources but cannot:

- Change the number of VPN connection groups.
- Change the bandwidth.
- Change the specification of the VPN gateway.

If yearly/monthly VPN resources are not renewed before the grace period ends, they will transition to the **Frozen** state and enter a retention period. During the retention period, you cannot perform any operations on the VPN resources.

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If yearly/monthly VPN resources are not renewed before the retention period ends, the VPN gateway, VPN connection, and EIP will be released and data cannot be restored.

NOTE

- For details about renewal, see **Renewal Overview**.

2.1.3 Pay-per-Use Billing

Pay-per-use billing means you pay nothing up front and are not tied into any contract or commitment. The billing modes available for a region are subject to those displayed on the page. This section describes the billing rules for pay-per-use VPN resources.

Application Scenarios

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

Billing Items

Pay-per-use VPN can be billed by bandwidth or traffic. **Table 2-3** lists the billing items in different billing modes.

Table 2-3 Billing items of S2C Enterprise Edition VPN

Billing Mode	Billing Item	Description
Pay-per-use (billed by bandwidth)	Fee of a VPN gateway instance = VPN gateway fee + VPN connection group fee + EIP bandwidth fee + Enterprise router connection fee + Enterprise router traffic fee	• By default, 10 VPN connection groups are included free of charge with the purchase of a VPN gateway. You can purchase more VPN connection groups as required. • An enterprise router is billed in pay-per-use mode.

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Billing Mode	Billing Item	Description
Pay-per-use (billed by traffic)	Fee of a VPN gateway instance = VPN gateway fee + VPN connection group fee + EIP traffic fee + Enterprise router connection fee + Enterprise router traffic fee	• By default, 10 VPN connection groups are included free of charge with the purchase of a VPN gateway. You can purchase more VPN connection groups as required. • An enterprise router is billed in pay-per-use mode.

Billing Cycle

Pay-per-use VPN resources are billed by the second. Bills are settled hourly on the hour (UTC+08:00). After the settlement is complete, a new billing cycle starts. The billing starts when the gateway instance is launched and ends when the instance is deleted.

For example, if you purchased an S2C Enterprise Edition VPN gateway at 08:45:30 and deleted it at 08:55:30 on the same day, you are billed for the 600 seconds from 08:45:30 to 08:55:30.

Billing Example (Billed by Bandwidth)

Suppose that you purchased a pay-per-use Enterprise Edition VPN gateway (associated with an enterprise router; specification: Professional 1; number of VPN connection groups: 20; bandwidth: 20 Mbit/s) at 09:59:30 on April 18, 2024, and deleted it at 10:45:46 on the same day. Two usage periods will be billed:

- 30 seconds from 09:59:30 to 10:00:00
- 2746 seconds from 10:00:00 to 10:45:46

The price displayed in the product pricing details is per hour, so you need to divide it by 3600 to obtain the price for each second and then multiply the per-second price by the total number of seconds. VPN resources of different types are billed individually, as described in **Table 2-4**.

Table 2-4 Billing formulas

Resource	Billing Formula	Unit Price
VPN gateway	Unit price of a VPN gateway x Billed duration	Refer to **VPN Pricing Details**.

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Resource	Billing Formula	Unit Price
VPN connection group	Unit price of a VPN connection group x Billed duration	Refer to **VPN Pricing Details**.
EIP	Tiered pricing based on fixed bandwidth. • 0 Mbit/s to 5 Mbit/s (included): billed at a fixed unit price per Mbit/s • Greater than 5 Mbit/s: billed at a different price per Mbit/s	Refer to **EIP Pricing Details**.
Enterprise router	Unit price of a connection x Billed duration + Unit price of traffic x Billed traffic	Refer to **Enterprise Router Pricing Details**.

Billing Example (Billed by Traffic)

Suppose that you purchased a pay-per-use Enterprise Edition VPN gateway (associated with an enterprise router; specification: Professional 1; number of VPN connection groups: 20) at 09:59:30 on April 18, 2024, and deleted it at 10:45:46 on the same day. Two usage periods will be billed:

- 30 seconds from 09:59:30 to 10:00:00
- 2746 seconds from 10:00:00 to 10:45:46

The price displayed in the product pricing details is per hour, so you need to divide it by 3600 to obtain the price for each second and then multiply the per-second price by the total number of seconds. VPN resources of different types are billed individually, as described in **Table 2-5**.

Table 2-5 Billing formulas for Enterprise Edition VPN

Resource	Billing Formula	Unit Price
VPN gateway	Unit price of a VPN gateway x Billed duration	Refer to **VPN Pricing Details**.
VPN connection group	Unit price of a VPN connection group x Billed duration	Refer to **VPN Pricing Details**.
EIP	Unit price of traffic x Billed traffic	Refer to **EIP Pricing Details**.

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Resource	Billing Formula	Unit Price
Enterprise router	Unit price of a connection x Billed duration + Unit price of traffic x Billed traffic	Refer to **Enterprise Router Pricing Details**.

Price Change After Quota Change

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

If you change instance quotas within a given hour, multiple records will be generated. Different bills record the billing of different quotas.

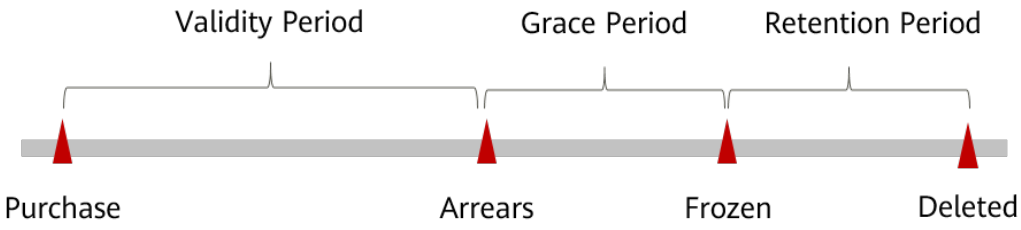
For example, if you purchased an S2C VPN gateway instance (associated with an enterprise router; specification: Professional 1; bandwidth: 20 Mbit/s) billed by traffic at 09:00:00, and increased the bandwidth to 30 Mbit/s (with other settings unchanged) at 09:30:00 on the same day, the following will be billed:

- Usage of the original quota (associated with an enterprise router; specification: Professional 1; bandwidth: 20 Mbit/s) from 09:00:00 to 09:30:00
- Usage of the new quota (associated with an enterprise router; specification: Professional 1; bandwidth: 30 Mbit/s) from 09:30:00 to 10:00:00

Impacts of Arrears

Figure 2-2 shows the states that pay-per-use VPN resources can go through throughout the lifecycle. After VPN resources are purchased, they enter the validity period and run normally during this period. If your account goes into arrears, VPN resources enter a grace period and then a retention period.

Figure 2-2 Lifecycle of pay-per-use VPN resources



Arrears Reminder

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

Impacts of Arrears

If your account is insufficient to pay your amount due, your account goes into arrears, and the pay-per-use VPN resources enter a grace period. You are still

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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, VPN resources turn to **Frozen** and enter a retention period. You cannot perform any operations on pay-per-use VPN resources in **Frozen** state.

If you do not bring your account balance current before the retention period ends, your resources (including the VPN gateway, VPN connections, and EIPs) will be released and the data cannot be restored.

2.2 Billing Items

Billing

You will be billed for the VPN gateway, VPN connection/VPN connection group, EIP, and enterprise router, as described in **Table 2-6**.

To quickly learn about pricing of the VPN service, see **VPN Pricing Details**.

NOTE

In **Table 2-6**, the billing items marked with asterisks (*) are mandatory.

Table 2-6 VPN billing items

Billing Item	Description	Billing Mode	Billing Formula
* VPN gateway	The unit price varies according to the specification of the gateway instance.	• Yearly / Monthly • Pay-per-use	Unit price of a gateway x Billed duration
* VPN connection or VPN connection group	By default, 10 VPN connection groups are included free of charge with the purchase of a VPN gateway. You can purchase more VPN connection groups as required.	• Yearly / Monthly • Pay-per-use	Unit price of a connection or connection group x Billed duration

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Billing Item	Description	Billing Mode	Billing Formula
EIP	You need to purchase EIPs only in public network scenarios. For details, see **Billed Items of EIPs**.	• Yearly / Monthly • Pay-per-use	• Yearly/Monthly: You are charged based on the bandwidth you select. • Pay-per-use (billed by bandwidth): You are charged based on the bandwidth you select. • Pay-per-use (billed by traffic): You are charged based on the traffic you generate.
Enterprise router	You need to purchase an enterprise router only when you associate a VPN gateway with it. For details, see **Enterprise Router Billing**.	• Yearly / Monthly • Pay-per-use	Unit price of a connection x Billed duration + Unit price of traffic x Billed traffic

2.3 Billing Example

NOTICE

Unit prices in this example are used for reference only, and the prices calculated here are only estimates. As unit prices change from time to time, the prices shown here may differ from actual prices. For details, see the data released at the Huawei Cloud official website.

Billing Scenario

Assume that a user purchased a pay-per-use Enterprise Edition VPN gateway with the following configuration at 15:30:00 on March 18, 2024:

- Billing mode: pay-per-use
- Network type: public network
- Associated with a VPC
- Specification: Professional 1
- Number of VPN connection groups: 10

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- HA mode: active-active
- Bandwidth of the active EIP: 20 Mbit/s
- Bandwidth of active EIP 2: 20 Mbit/s
- Public network bandwidth: billed by bandwidth

The pricing of billing items is as follows:

- Gateway: $0.33 USD/hour per gateway
- VPN connection group: $0.035 USD/hour per connection group
- Bandwidth fee (active EIP + active EIP 2): $1.14 USD/hour

The user purchased one VPN connection group at 16:30:00 on March 18, 2024. After a period of time, the user found that the VPN quotas no longer met service requirements, and increased the bandwidth to 30 Mbit/s at 09:00:00 on March 20, 2024. The new bandwidth price is $1.82 USD per hour. Since the VPN gateway was intended for long-term use, the user changed the billing mode of the VPN gateway to yearly/monthly and set the renewal duration to one month at 10:30:00 on March 20, 2024. So how much will the user be billed for this VPN gateway in March and April?

Billing Analysis

The total price of the VPN involves both pay-per-use and yearly/monthly usage:

- Pay-per-use usage: 15:30:00 on March 18, 2024 to 10:30:00 on March 20, 2024
- Yearly/Monthly usage: 10:30:00 on March 20, 2024 to 23:59:59 on April 20, 2024

Table 2-7 Price details

Billing Phase	VPN Connection Group	Billed Duration	Price Details (USD)	Total Price (USD)
Pay-per-use usage from 15:30:00 on March 18, 2024 to 10:30:00 on March 20, 2024	Within the quota	60 minutes 2024/03/18 15:30:00 to 2024/03/18 16:30:00	• VPN gateway: 60/60 x 0.33 x 1 = 0.33 • VPN connection group: 60/60 x 0 x 10 = 0 • Bandwidth: 60/60 x 1.14 = 1.14	65.7

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Billing Phase	VPN Connection Group	Billed Duration	Price Details (USD)	Total Price (USD)
	Exceeding the quota	2430 minutes 2024/03/18 16:30:00 to 2024/03/20 09:00:00	• VPN gateway: 2430/60 x 0.33 x 1 = 13.365 • VPN connection group: 2430/60 x 0 x 10 + 2430/60 x 0.035 x 1 = 1.4175 • Bandwidth: 2430/60 x 1.14 = 46.17	
	Exceeding the quota	90 minutes 2024/03/20 09:00:00 to 2024/03/20 10:30:00	• VPN gateway: 90/60 x 0.33 x 1 = 0.495 • VPN connection group: 90/60 x 0 x 10 + 90/60 x 0.035 x 1 = 0.0525 • Bandwidth: 90/60 x 1.82 = 2.73	
Yearly/ Monthly usage from 10:30:00 on March 20, 2024 to 23:59:59 on April 20, 2024	Exceeding the quota	One month 2024/03/20 10:30:00 to 2024/04/20 23:59:59	• VPN gateway: $209 USD/month • VPN connection group: $82.5 USD/ month (If more than 10 VPN connection groups are required, the user can purchase additional VPN connection groups as required, which are sold in units of 10.) • Bandwidth: $858.60 USD/month	1150.1

From March to April, the total price of the VPN gateway is $1215.8 USD (65.7 + 1150.1).

2.4 Billing Mode Changes

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2.4.1 Overview

You can change the billing mode if it no longer meets your needs.

S2C Enterprise Edition VPN supports billing mode change, as described in **Table 2-8**.

Table 2-8 Billing mode change in Enterprise Edition VPN

Billing Item	Change Scenario	Reference
VPN gateway	• Change the billing mode of a VPN gateway instance from pay-per-use to yearly/monthly to enjoy lower prices. • Upgrade a yearly/monthly Enterprise Edition VPN gateway to support access via non-fixed IP addresses.	• **2.4.2 Changing the Billing Mode of a Pay-Per-Use VPN Gateway to Yearly/Monthly** • **2.4.4 Changing the Specification of a Yearly/Monthly VPN Gateway**
VPN connection group	Increase or decrease the number of VPN connection groups for a yearly/monthly Enterprise Edition VPN gateway (with the specification not being Basic).	**2.4.3 Increasing or Decreasing the Connection Group Quota for a Yearly/Monthly VPN Gateway**
EIP	• Change a yearly/monthly EIP to a pay-per-use EIP billed by bandwidth. The change takes effect when the yearly/monthly subscription ends. • Change a pay-per-use EIP billed by bandwidth to a yearly/monthly EIP. • Change the billing mode of a pay-per-use EIP between billed by bandwidth and billed by traffic. For details, see **Figure 2-3**.	**Billing Mode Change Overview of EIPs**

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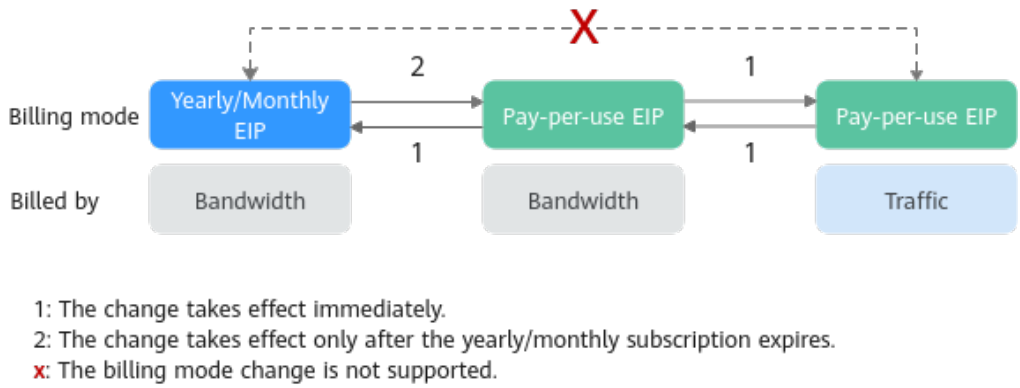
Figure 2-3 EIP billing mode change



2.4.2 Changing the Billing Mode of a Pay-Per-Use VPN Gateway to Yearly/Monthly

Procedure

1. Log in to the management console.
2. Click in the upper left corner and select the desired region and project.
3. Click in the upper left corner, and choose **Networking** > **Virtual Private Network**.
4. In the navigation pane on the left, choose **Virtual Private Network** > **Enterprise – VPN Gateways**.
5. Click **S2C VPN Gateways**, locate the target pay-per-use VPN gateway, and click **Change Billing Mode**.
   - You can change the billing mode of the VPN gateway and bound EIPs to yearly/monthly simultaneously. Alternatively, you can only change the billing mode of the VPN gateway to yearly/monthly, and retain the billing mode of the bound EIPs as pay-per-use.

     Only when the EIPs bound to a VPN gateway are billed by bandwidth in pay-per-use mode, you can change the billing modes of the VPN gateway and EIPs to yearly/monthly simultaneously.
   - Billing formula change

     Assume that *X* VPN connection groups are in use before the billing mode is changed to yearly/monthly. Then, after the billing mode is changed, the billing formula changes to: Fee of the VPN gateway + Fee of (*X* – 10) VPN connection groups.
6. In the **Change Billing Mode** dialog box, click **OK**.
7. On the **Change Subscription** page that is displayed, confirm information about the VPN gateway and configure the usage duration.
8. Click **Pay**.
9. On the payment page, confirm the order information, select a coupon or discount, and select the payment method.

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10. Click **Pay**.

    NOTE

    Changing the billing mode of a VPN gateway from pay-per-use to yearly/monthly will not affect your services.

2.4.3 Increasing or Decreasing the Connection Group Quota for a Yearly/Monthly VPN Gateway

Scenario

You can increase or decrease the number of connection groups for an Enterprise Edition VPN gateway whose specification is not Basic.

Procedure

1. Log in to the management console.
2. Click in the upper left corner and select the desired region and project.
3. Click in the upper left corner, and choose **Networking** > **Virtual Private Network**.
4. In the navigation pane on the left, choose **Virtual Private Network** > **Enterprise – VPN Gateways**.
5. Click **S2C VPN Gateways**, locate the target VPN gateway, and choose **More** > **Change VPN Connection Group Quota** in the **Operation** column.
6. On the **Change VPN Connection Group Quota** page, set a new number of VPN connection groups and click **Next**.
7. If you increase the quota, click **Pay Now** to pay the price difference. If you decrease the quota, click **OK**.

   The new quota of VPN connection groups takes effect immediately, and you are billed or refunded the difference.

2.4.4 Changing the Specification of a Yearly/Monthly VPN Gateway

Scenario

If the specification of a yearly/monthly VPN gateway of the public network type is **Professional 1** or **Professional 2**, you can upgrade the specification to enable the VPN gateway to support access via non-fixed IP addresses.

Procedure

1. Log in to the management console.
2. Click in the upper left corner and select the desired region and project.
3. Click in the upper left corner, and choose **Networking** > **Virtual Private Network**.

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4. In the navigation pane on the left, choose **Virtual Private Network** > **Enterprise – VPN Gateways**.
5. Click **S2C VPN Gateways**, locate the target VPN gateway, and choose **More** > **Modify Specifications** in the **Operation** column.
6. Change the gateway specification as prompted.

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3 P2C VPN

3.1 Billing Modes

3.1.1 Overview

P2C VPN supports only the yearly/monthly billing mode.

Yearly/Monthly is a prepaid billing mode. You pay in advance for a subscription term, and in exchange, you get a discounted rate. The longer the subscription term, the bigger the discount. Yearly/Monthly billing is a good option for long-term, stable services.

Table 3-1 P2C VPN billing modes

Billing Mode	Only the yearly/monthly billing mode is supported.
Payment	Prepaid Settled by the subscription term you purchase
Billing Cycle	Billed by the subscription term you purchase
Billing Item	• VPN gateway: Currently, only the specification Professional 1 is supported. The maximum throughput is 300 Mbit/s, and 10 VPN connections are free of charge with the purchase of a VPN gateway by default. You can purchase more VPN connections as required. • VPN connection: You are billed at tiered pricing based on the number of VPN connections: 1–10, 11–50, 51–100, and 101–500.
Changing the Billing Mode	The billing mode cannot be changed.

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Changing the Quotas	• The EIP bandwidth can be increased or decreased. • The number of VPN connections can be increased or decreased. • The specification of a VPN gateway cannot be changed.
Application Scenarios	• Recommended for scenarios with predictable usage period • Long-term use

3.1.2 Yearly/Monthly Billing

If you expect to use resources for a long period, you can save money by selecting yearly/monthly billing. This section describes the billing rules for yearly/monthly VPN resources.

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 blog websites
- 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

Billing Items

Yearly/Monthly VPN is billed based on your purchased duration, bandwidth, and number of VPN connections (or connection groups).

Billing Cycle

Yearly/Monthly VPN is billed for the purchased duration (UTC+08:00). The billing starts when you activate or renew the subscription (accurate to the second), and ends at 23:59:59 of the expiry date.

For example, if you purchased a one-month P2C VPN gateway at 15:50:04 on March 08, 2024, the billing cycle is from 15:50:04 on March 08, 2024 to 23:59:59 on April 08, 2024.

Billing Example (P2C VPN)

Suppose you purchased a one-month P2C VPN gateway (specification: Professional 1; number of VPN connections: 20; bandwidth: 20 Mbit/s) at 15:50:04 on August 08, 2024, and renewed the subscription for one more month before the initial subscription expired. The following usage periods will be billed:

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- 15:50:04 on August 08, 2024 to 23:59:59 on September 08, 2024
- 23:59:59 on September 08, 2024 to 23:59:59 on October 08, 2024

You will be billed for both usage periods. VPN resources of different types are billed individually, as described in **Table 3-2**.

Table 3-2 Billing formulas

Resource	Billing Formula	Unit Price
VPN gateway	USD/month per VPN gateway	Refer to **VPN Pricing Details**.
VPN connection	USD/month per VPN connection	Refer to **VPN Pricing Details**.

Price Change After Quota Change

If the quotas of yearly/monthly VPN resources no longer meet your needs, you can change the quotas on the management console. The system will recalculate the price and either bill or refund you the difference.

NOTE

In yearly/monthly billing mode, P2C VPN supports specification change.

- Quota increase: You will be billed the difference.
  - If you increase the EIP bandwidth, the new bandwidth takes effect immediately in the current billing cycle.
  - If you increase the number of VPN connections, the new quota takes effect immediately in the current billing cycle.
  - If you upgrade the specification of a VPN gateway, access via non-fixed IP addresses takes effect immediately in the current billing cycle.
- Quota decrease: We will refund you the difference.
  - If you decrease the EIP bandwidth, the new bandwidth does not take effect in the current billing cycle. You need to select a renewal duration and will be billed based on the new bandwidth. The change will take effect from the next billing cycle.
  - If you decrease the number of VPN connections, the new number of VPN connections takes effect immediately.

The following provides a quota increase example where no discounts are available. Suppose you purchased a one-month P2C VPN gateway (specification: Professional 1; number of VPN connections: 20; bandwidth: 20 Mbit/s) on April 08, 2024, and increased the quotas to 30 VPN connections and 30 Mbit/s bandwidth on April 18, 2024 (with other settings unchanged). The price of the original quotas is $826 USD per month, and that of the new quotas is $1232 USD per month. The price difference is calculated as follows:

Price difference for the quota increase = (Price of the new quotas x Remaining service period) – (Price of the original quotas x Remaining service period)

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The remaining service period is the sum of the remaining days in each calendar month divided by the maximum number of days in the corresponding calendar month. In this example:

Remaining service period = 12 (Remaining days in April)/30 (Maximum number of days in April) + 8 (Remaining days in May)/31 (Maximum number of days in May) = 0.6581

So,

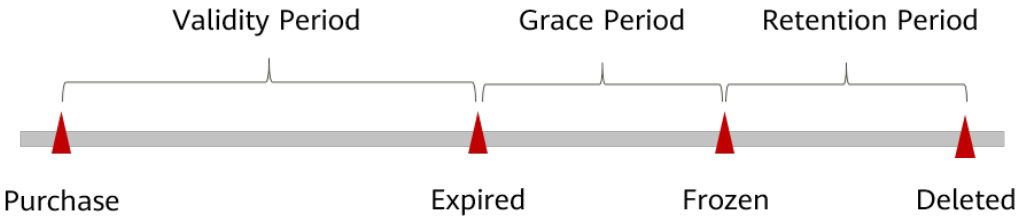
Price difference = ($1232 USD x 0.6581) – ($826 USD x 0.6581) = $267.19 USD

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

Impact of Expiration

Figure 3-1 shows the states that yearly/monthly VPN resources can go through throughout the lifecycle. After VPN resources are purchased, they enter the validity period and run normally during this period. If the VPN resources are not renewed before they expire, they first enter a grace period and then a retention period.

Figure 3-1 Lifecycle of yearly/monthly VPN resources



Expiration Reminder

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

Impact of Expiration

If your yearly/monthly VPN resources are not renewed before they expire, they will transition to the **Expired** state and enter a grace period upon expiration. During the grace period, you can access VPN resources but cannot:

- Change the number of VPN connections.
- Change the bandwidth.
- Change the specification of the VPN gateway.

If yearly/monthly VPN resources are not renewed before the grace period ends, they will transition to the **Frozen** state and enter a retention period. During the retention period, you cannot perform any operations on the VPN resources.

If yearly/monthly VPN resources are not renewed before the retention period ends, the VPN gateway, VPN connection, and EIP will be released and data cannot be restored.

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NOTE

- For details about renewal, see **Renewal Overview**.

3.2 Billing Items

Billing

You will be billed for the VPN gateway and VPN connection, as described in **Table 3-3**.

To quickly learn about pricing of the VPN service, see **VPN Pricing Details**.

NOTE

In **Table 3-3**, the billing items marked with asterisks (*) are mandatory.

Table 3-3 P2C VPN billing items

Billing Item	Description	Billing Mode	Billing Formula
* VPN gateway	The unit price varies according to the specification of the gateway instance.	Yearly/ Monthly	Unit price of a gateway x Billed duration
* VPN connection	By default, 10 VPN connections are free of charge with the purchase of a VPN gateway. You can purchase more VPN connections as required.	Yearly/ Monthly	Unit price of a connection x Billed duration

Billing Example

Suppose you purchased a one-month P2C VPN gateway (specification: Professional 1; number of VPN connections: 20; bandwidth: 20 Mbit/s) at 15:50:04 on August 08, 2024, and renewed the subscription for one more month before the initial subscription expired. The following usage periods will be billed:

- 15:50:04 on August 08, 2024 to 23:59:59 on September 08, 2024
- 23:59:59 on September 08, 2024 to 23:59:59 on October 08, 2024

You will be billed for both usage periods. VPN resources of different types are billed individually, as described in **Table 3-4**.

Table 3-4 Billing formulas

Resource	Billing Formula	Unit Price
VPN gateway	USD/month per VPN gateway	Refer to **VPN Pricing Details**.

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Resource	Billing Formula	Unit Price
VPN connection	USD/month per VPN connection	Refer to **VPN Pricing Details**.

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4 Renewal

4.1 Overview

When to Renew Subscriptions

If a yearly/monthly VPN gateway is about to expire and you want to continue using it, you need to renew the VPN gateway subscription within a specified period; otherwise, VPN resources will be automatically released, and data will be lost and cannot be restored.

Only yearly/monthly VPN gateway subscriptions can be renewed. If you use pay-per-use VPN gateways, just ensure that your account has a valid payment method configured or a top-up account with a sufficient balance.

If you renew a VPN gateway before it expires, resources will be retained and you can continue using VPN resources.

How to Renew Subscriptions

You can renew a yearly/monthly VPN gateway manually or automatically, as described in **Table 4-1**.

Table 4-1 Renewing a yearly/monthly VPN gateway

Method	Description
4.2 Manually Renewing a Subscription	You can renew a yearly/monthly VPN gateway on the management console anytime before it is automatically deleted.
4.3 Auto-renewing a Subscription	You can enable auto-renewal to automatically renew a VPN gateway before it expires. This prevents resources from being deleted in case you forget to renew a subscription.

You can select a method to renew a yearly/monthly VPN gateway based on the phase the VPN gateway is currently in, as shown in **Figure 4-1**.

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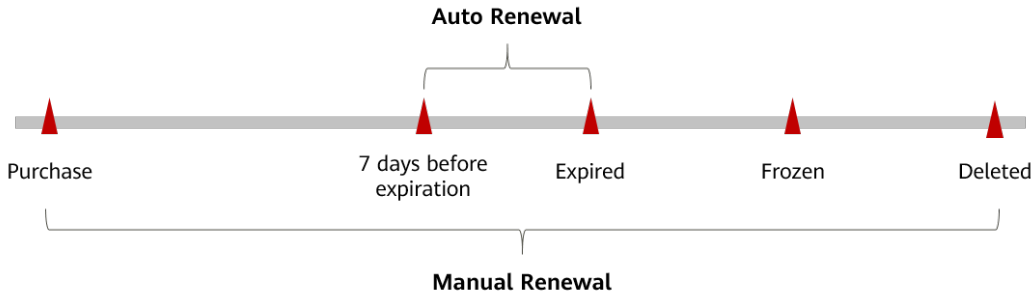
Figure 4-1 Selecting a renewal method based on the VPN gateway's current phase



- A VPN gateway is in **Normal** state after it is provisioned.
- When a VPN gateway subscription expires, the resource status changes from **Normal** to **Expired**.
- If a VPN gateway is not renewed before it expires, it enters a grace period. If it is not renewed before the grace period ends, the VPN gateway is frozen and enters a retention period.
- If the subscription is not renewed before the retention period ends, resources are automatically deleted.

You can enable auto-renewal anytime before a VPN gateway 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.

4.2 Manually Renewing a Subscription

Renewing a Subscription on the Console

Step 1 Log in to the management console.

Step 2 Click in the upper left corner and select the desired region and project.

Step 3 Click in the upper left corner, and choose **Networking** > **Virtual Private Network**.

Step 4 In the navigation pane on the left, choose **Virtual Private Network** > **Enterprise – VPN Gateways**.

Step 5 Locate the target VPN gateway, and click **Renew** in the **Operation** column.

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**.

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

----End

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Renewing a Subscription in the Billing Center

Step 1 Choose **Billing** > **Renewal**.

Step 2 Set search criteria.

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

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

Step 3 Manually renew resources.

- Individual renewal: Click **Renew** in the **Operation** column of the desired resource.
- Batch renewal: Check the boxes for the desired resources, and click **Batch Renew** above the list.

Step 4 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**.

Step 5 Select a payment method and make your payment. Once the order is paid, the renewal is complete.

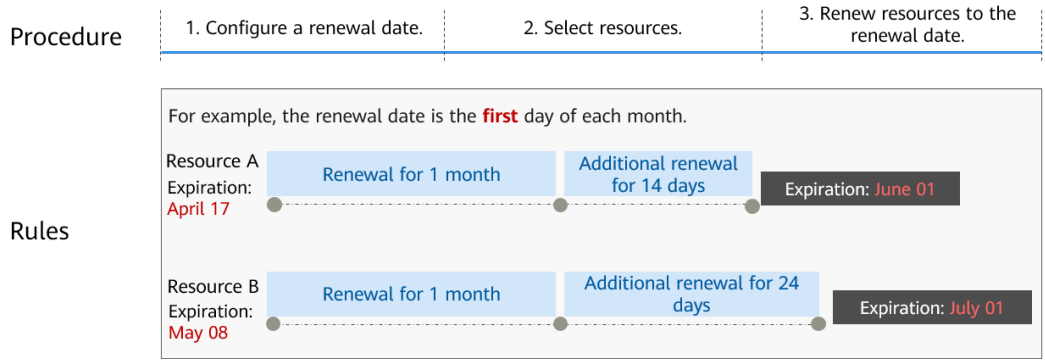
----End

Setting the Same Renewal Day for Yearly/Monthly Resources

If multiple VPN gateways have different expiry dates or a VPN gateway and bound EIPs have different expiry dates, you can set the same renewal day for them, for example, the first day of each month, which makes it easier to manage renewals.

In **Figure 4-2**, a user sets the same renewal day for two resources that will expire on different dates.

Figure 4-2 Setting the same renewal day for resources with different expiry dates



For details, see **Setting a Renewal Date**.

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4.3 Auto-renewing a Subscription

Auto-renewal can prevent VPN gateways 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 the VPN gateway expiry date and the billing cycle.
- The auto-renewal period of a VPN gateway varies according to how you enable auto-renewal.
- You can enable auto-renewal anytime before a VPN gateway 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 VPN gateways 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**.

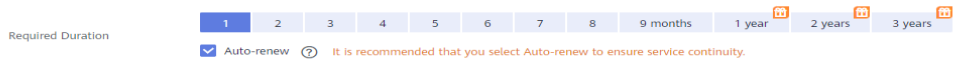
Prerequisites

A yearly/monthly VPN gateway has not yet expired.

Enabling Auto-renewal During Purchase

You can enable auto-renewal on the VPN gateway purchase page, as shown in **Figure 4-3**.

Figure 4-3 Enabling auto-renewal



If you enable auto-renewal when purchasing a VPN gateway, the auto-renewal periods are as follows:

- Monthly billing: Your subscription will be renewed on a monthly basis.
- Yearly billing: Your subscription will be renewed on a yearly basis.

Enabling Auto-renewal on the Renewals Page

Step 1 Choose **Billing** > **Renewal**.

Step 2 Set search criteria.

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- You can view the resources for which auto-renewal has been enabled on the **Auto Renewals** tab page.
- You can enable auto-renewal for resources on the **Manual Renewals**, **Pay-per-Use After Expiration**, and **Renewals Canceled** tab pages.

Step 3 Enable auto-renewal for yearly/monthly resources.

- Enabling auto-renewal for a single resource: Select a VPN gateway for which you want to enable auto-renewal, and choose **More** > **Enable Auto-Renew** in the **Operation** column.
- Enabling auto-renewal for multiple resources at a time: Select the VPN gateways for which you want to enable auto-renewal, and click **Enable Auto-Renew** above the list.

Step 4 Select a renewal period, specify the number of auto-renewals, and click **Pay**.

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

----End

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5 Bills

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

Bill Generation

The usage of pay-per-use resources is reported to the billing system at a fixed interval. A pay-per-use resource is settled by hour, day, or month, depending on the resource's usage type. For details, see **Bill Run for Pay-per-Use Resources**. Pay-per-use VPN resources are settled by hour.

You are not charged immediately after a record is generated. For example, if pay-per-use VPN resources (settled by hour) are deleted at 08:30, you will still have expenditures for the 08:00 to 09:00 hour. However, you will not likely be billed for the 08:00 to 09:00 hour until about 10:00. On the **Billing** > **Expenditure Details** > **Details** page in the Billing Center, **Expenditure Time** in each bill indicates the time when pay-per-use resources are used.

Viewing Bills of a Specific Resource

[Example 1: Use an instance ID to search for a bill. The instance ID is the same as the resource ID in the bill.]

Step 1 Log in to the management console, and choose **Networking** > **Virtual Private Network**.

Step 2 In the navigation pane on the left, choose **Virtual Private Network** > **Enterprise – VPN Gateways**.

Step 3 Click a gateway name, and copy the resource ID specified by **ID** in the **Basic Information** area.

Step 4 Choose **Billing** > **Billing** > **Expenditure Details**.

Step 5 Click **Bill Details**, select **Resource ID** as a filter criterion, enter the resource ID obtained in **Step 3**, and click to search for the bills of the specified resource.

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

----End

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[Example 2: Use a resource name to search for a bill.]

Step 1 Log in to the management console, and choose **Networking** > **Virtual Private Network**.

Step 2 In the navigation pane on the left, choose **Virtual Private Network** > **Enterprise – VPN Gateways**.

Step 3 Click a gateway name, and copy the resource name specified by **Name** in the **Basic Information** area.

Step 4 Choose **Billing** > **Billing** > **Expenditure Details**.

Step 5 Select **Resource Name** as a filter criterion, enter the resource name obtained in **Step 3**, and click .

----End

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6 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 VPN resources, pay off the arrears in a timely manner.

Reason of Arrears

Your account balance is insufficient to pay for the used resources on a pay-per-use basis.

Impacts of Arrears

- Yearly/Monthly

  This is a pre-paid billing mode, so you can continue using yearly/monthly VPN resources even if your account is in arrears. However, you cannot perform operations such as modifying the EIP bandwidth, changing the number of VPN connection groups, or renewing subscriptions, because these operations will generate new expenditures.

- Pay-per-use

  If your account is insufficient to pay your amount due, your account goes into arrears, and the pay-per-use VPN resources enter a grace period. 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, VPN resources turn to **Frozen** and enter a retention period. You cannot perform any operations on pay-per-use VPN resources in **Frozen** state.

  If you do not bring your account balance current before the retention period ends, your resources (including the VPN gateway, VPN connections, and EIPs) will be released and the data cannot be restored.

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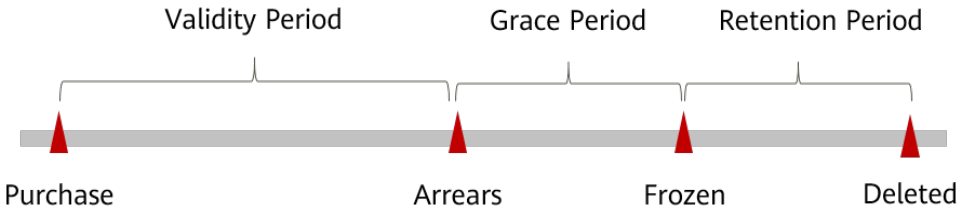
Figure 6-1 Lifecycle of pay-per-use VPN resources



Avoiding and Handling Arrears

Pay off the arrears in a timely manner if your account is in arrears. For details, see **Making Repayments (Postpaid Direct Customers)**.

If a VPN gateway or VPN connection is no longer used, you can delete it to avoid generating further expenditures.

To help make sure your account never falls into arrears, you can enable **Balance Alert** on the **Overview** page of the Billing Center. With this function, once an expenditure quota falls below the threshold you specify, the system will automatically notify you by SMS or email.

If your account is in arrears, address the issue in a timely manner.

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7 Billing Termination

Yearly/Monthly Resources

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

- If you no longer need resources and the subscription has not yet expired, you can unsubscribe from the resources. Depending on what coupons were used for the purchase, the system may issue you a refund.
- If you have enabled auto-renewal but no longer need to automatically renew the subscription, disable auto-renewal before the auto-renewal date (7 days before the expiry date by default) to avoid unexpected expenditures.

Pay-Per-Use Resources

If pay-per-use VPN resources are no longer used, delete them in a timely manner to stop billing. After VPN connections are deleted, you will still be charged for using the corresponding VPN gateway. As such, you also need to delete the VPN gateway to avoid incurring fees.

Searching for Resources from Bills and Stopping Billing

To delete all unnecessary resources, you can search the billing records by resource ID, and then delete the resources you identify in this way. The detailed operations are as follows.

[Example 1: Use a resource ID in a bill to search for a resource.]

Step 1 Choose **Billing** > **Billing** > **Expenditure Details**.

Step 2 Click **Details**, and click shown in the following figure to copy the resource ID.

Step 3 Log in to the management console.

Step 4 Click in the upper left corner and select the desired region and project.

Step 5 Choose **Networking** > **Virtual Private Network**.

Step 6 In the navigation pane on the left, choose **Virtual Private Network** > **Enterprise – VPN Gateways**.

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Step 7 On the **S2C VPN Gateways** tab page, select **ID** as the filter criterion, enter the ID obtained in **Step 2**, and click the icon to search for the resource.

Step 8 Choose **More** > **Delete** or **More** > **Unsubscribe** in the **Operation** column to delete or unsubscribe from the VPN gateway. The VPN gateway then is no longer displayed in the list.

NOTE

You are charged one hour after the resource usage is calculated, so a bill may still be generated after a pay-per-use resource is deleted. For example, if you delete a pay-per-use VPN resource at 08:30, the fees incurred between 08:00 and 09:00 are usually deducted at about 10:00.

----End

[Example 2: Use a resource name in a bill to search for a resource.]

Step 1 Choose **Billing** > **Billing** > **Expenditure Details**.

Step 2 Click **Details**, and click shown in the following figure to copy the resource name.

Step 3 Log in to the management console.

Step 4 Click in the upper left corner and select the desired region and project.

Step 5 Choose **Networking** > **Virtual Private Network**.

Step 6 In the navigation pane on the left, choose **Virtual Private Network** > **Enterprise – VPN Gateways**.

Step 7 On the **S2C VPN Gateways** tab page, select **Name** as the filter criterion, enter the name obtained in **Step 2**, and click the icon to search for the resource.

Step 8 Choose **More** > **Delete** or **More** > **Unsubscribe** in the **Operation** column to delete or unsubscribe from the VPN gateway. The VPN gateway then is no longer displayed in the list.

NOTE

You are charged one hour after the resource usage is calculated, so a bill may still be generated after a pay-per-use resource is deleted. For example, if you delete a pay-per-use VPN resource at 08:30, the fees incurred between 08:00 and 09:00 are usually deducted at about 10:00.

----End

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8 Billing FAQs

8.1 S2C Enterprise Edition VPN

8.1.1 What Are the Differences Between Billing the VPN Gateway EIP Bandwidth by Bandwidth and by Traffic?

The VPN gateway EIP bandwidth can be billed by bandwidth or by traffic.

The differences are as follows:

- Billed by bandwidth: The billing cycle is 1 hour. The generated fee depends on the bandwidth.
- Billed by traffic: The fee is calculated based on the outgoing traffic of a VPC generated every hour, which is not affected by the bandwidth.

8.1.2 Can a VPN Billed by Traffic Use a Shared Data Package?

In Enterprise Edition VPN, EIPs can be used as VPN gateway IP addresses.

The VPN service fee includes the EIP fee. An EIP can use a shared data package.

8.1.3 For How Many VPN Connections Will I Be Charged to Connect VPCs in Different Regions of Huawei Cloud?

VPNs can be used to connect VPCs in different regions. The VPN bandwidth and connections of each region will be billed independently. Therefore, when calculating the estimated fees, you need to check the total number of regions and their connection relationships.

For example, assume that Region A needs to establish a VPN connection with Region B and Region C, respectively. The VPN gateway of Region A has two connections; the VPN gateway of Region B has one connection; and the VPN gateway of Region C has one connection.

In this case, you will be charged for four VPN connections.

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8.1.4 When Will My VPN Resources Be Frozen? How Can I Unfreeze the VPN Resources?

- If pay-per-use VPN resources are in arrears, the resources enter the grace period, during which you can still access and use the resources. If the grace period ends and you have not paid off the arrears, the resources enter the retention period, during which the resources are frozen. Frozen resources are unavailable and cannot be modified or deleted. If the retention period ends and you still have not topped up your account and paid off the arrears, the resources will be released and cannot be restored. To ensure that resources are available, top up your account and pay off the arrears before the resources expire.
- The impact of shared bandwidth freezing on EIPs is subject to the EIP documentation. For details, see **Why My EIPs Are Frozen? How Do I Unfreeze My EIPs?**.
- Frozen VPN resources will become available after you renew them or top up your account.

8.2 S2C Classic VPN

8.2.1 What Is the Difference Between Billing a VPN Gateway by Bandwidth and by Traffic?

A pay-per-use VPN gateway can be billed by bandwidth or by traffic. Their differences are as follows:

- Billed by bandwidth: The billing cycle is one hour. The generated fee depends on the bandwidth size.
- Billed by traffic: The traffic fees generated each hour will be collected. The billing is based on the generated traffic going out of a VPC. The bandwidth size does not affect the price of the public traffic per GB.

8.2.2 Can a VPN Billed by Traffic Use a Shared Data Package?

No.

The VPN service is billed independently and cannot use shared data packages.

8.2.3 When Will My VPN Resources Be Frozen? How Can I Unfreeze the VPN Resources?

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- Frozen VPN resources will become available after you renew them or top up your account. If a VPN connection is in the not connected state, initiate data flows to trigger the VPN connection and let it be in the normal state. For example, you can ping hosts on different subnets to trigger data flows.

8.2.4 How Are VPN Resources Billed and How Do I Use Coupons?

A VPN gateway can be billed on a pay-per-use or yearly/monthly basis. The billing modes available for a region are subject to those displayed on the page.

- Pay-per-use: Fees are deducted from the account balance based on the resource usage.
- Yearly/Monthly: The subscription must be paid for in advance.

If you have a coupon, you can use it to top up you account, as long as the coupon is valid. You can then use the new balance in your account to pay for your resources.

Yearly/monthly resources are cost-effective.

Contract users need to select **Download Contract and Pay** on the console.

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