

# Alibaba Cloud CDN

## Purchase Guide

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## Price overview

The CDN price structure consists of **basic services** and **value-added services**.

Basic services:

Two billing methods: PayByTraffic and PayByBandwidth. When activating the CDN service you must choose one of these methods.

You can switch between **PayByTraffic** and **PayByBandwidth** based on your needs. The new billing method will take effect for the billing cycle following the change.

See the following section for application scenarios of the two billing methods.

Billing Method	Description	Applicable Scenarios
PayByTraffic	Users are billed according to the actual traffic used hourly.	This billing method is best for scenarios where the domain name traffic curve varies and bandwidth spikes, or where the bandwidth utilization is less than 30% for the whole day.
PayByBandwidth	Users are billed by daily peak bandwidth. A peak bandwidth value is recorded at intervals of 5 minutes for a total of 288 values each day. The highest value is used for billing.	This billing method is best for scenarios where the domain name traffic curve is relatively flat or where bandwidth utilization exceeds 30% for the whole day.

**Note:** Bandwidth utilization refers to actual used traffic (Gbps)/(peak bandwidth (Mbps) x 10.54). For 1 Mbps bandwidth, 100% utilization for a whole day would generate approximately 10.54 Gbps of traffic.

Value-added services:

- The HTTPS secure acceleration service is a value-added service. If the HTTPS secure acceleration service is activated for a CDN domain under your account, the CDN domain will be billed for HTTPS requests, in addition to the total fee of all **basic services**.

## PayByTraffic

Billing item: Downstream traffic

Traffic tier	Price ( USD/GB)
0 GB-10 TB (inclusive)	0.071
10 TB-50 TB (inclusive)	0.065
50 TB-100 TB (inclusive)	0.060
>100 TB	0.054

**Note:** To avoid high costs due to irregular and/or malicious traffic, set the upper bandwidth limit for PayByTraffic to 10 Gbps by default.

Billing rules

Billing item: Traffic

Method of payment: Post payment

Billing rules: Pay by traffic on a tiered pricing basis and carry forward the amount of traffic exceeding the limit for the current month to the next billing cycle (on a calendar month basis).

Billing cycle: Billed by the hour; fee deducted in real time

**Note:** A bill is typically issued within one hour of the end of the current billing cycle. For example, the bill for traffic consumed between 10:00-11:00 will be generated after 11:00. The amount due is then automatically deducted from your account balance.

## PayByBandwidth

Billing item: Peak bandwidth

Peak bandwidth tier	Price (USD/Mbps/day)
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0-500 Mbps	0.2
500 Mbps-5 Gbps	0.19
>5 Gbps	0.17

**Note:**

- The default upper limit of bandwidth for PayByBandwidth is 100 Gbps. Submit a ticket if you require a higher limit.
- PayByBandwidth is based on the maximum bandwidth your CDN service has consumed (in Mbps) for the current day.

**Billing rules**

Billing item: Peak bandwidth

Method of payment: Post payment

Billing rules: PayByBandwidth uses a tiered pricing system, and the amount exceeding the limit for the current day is carried forward to the next billing cycle (on a calendar day basis).

Billing cycle: Billed by the day; fee deducted in real time (The bill for the previous day is issued and the fee deducted after 00:00 each day.)

**Example**

CDN uses a tiered pricing system for PayByBandwidth.

A user's peak bandwidth for the current day is 900 Mbps. The unit price is 0.2 USD for bandwidth at or below 500 Mbps and 0.19 USD RMB for bandwidth above 500 Mbps and below 5 Gbps. Thus, the user's billed amount will be  $500 \times 0.2 \text{ USD} + 400 \times 0.19 \text{ USD} = 176 \text{ USD}$ .

**Formula**

The CDN peak bandwidth for the current day is A Mbps and that day's CDN bandwidth charge is B USD:

When  $A \leq 500$  ,  $B = A \times 0.2$

When  $500 < A \leq 5000$  ,  $B = [500 \times 0.2 + (A-500) \times 0.19]$

When  $A > 5000$ ,  $B = [500 \times 0.2 + (5000 - 500) \times 0.19 + (A - 5000) \times 0.17]$

**Note:**

A bill is usually issued within one hour of the end of the current billing cycle. For example, the bill for June 17 will be generated after 0:00 June 18. The amount due is automatically deducted from your account balance.

PayByBandwidth is based on the maximum bandwidth your CDN service has consumed (in Mbps).

## Billing of value-added services

### HTTPS secure acceleration

Price of HTTPS secure acceleration refers to Basic fee (charged for downstream traffic OR peak bandwidth per day) + Fee charged for HTTPS requests

Value-added service price

Billing item	Price (USD/10 thousand times)
HTTPS requests	0.03

#### Billing rules

Billing item: HTTPS requests

Method of payment: Post payment

Billing rule: Billing is based on the HTTPS request price for value-added services. HTTPS requests are accumulated on a calendar day basis.

Billing cycle: Billed by the day; fee deducted in real time (The bill for the previous day is issued and the fee deducted after 00:00 each day.)

**Note:**

A bill is typically issued within one hour of the end of the current billing cycle. For example, the bill for June 17 will be generated after 0:00 June 18. The amount due is then

automatically deducted from your account balance.

Billing of HTTPS requests: Settlement is based on the cumulative HTTPS requests generated by all domains for which secure acceleration is activated on the current day.

## Pre-paid traffic package

Traffic package sizes from 500G - 50TB are available for 1 year. [Learn More](#)

The packages are pre-paid in Subscription mode (paid in one total sum and activated immediately). The traffic beyond the package quota is billed in Pay-As-You-Go mode.

For the duration of the resource package, fees are deducted for your use of the traffic quota. For traffic outside the quota, fees are billed based on the existing billing rules.

### Billing rules

Billing items: domestic traffic+international traffic

Method of payment: Prepayment

Billing cycle: Billed by the hour and charged in real time (a bill is generated every hour and the used traffic is deducted from the traffic package).

### Notice for use:

You can buy a pre-paid traffic package with a credit card.

Traffic packages only support the **Pay-As-You-Go** billing mode. If the billing mode of your traffic package is **PayByBandwidth**, the balance of your traffic package will be frozen until you switch to **Pay-As-You-Go**.

CDN traffic packages (global) allow you to deduct the traffic generated by domestic and international nodes.

Traffic packages are limited to your own account only.

Traffic packages are prioritized and used based on expiration time. Traffic is

deducted first from the traffic package that will expire soonest.

To view the balance of your traffic package, go to [Resource Package Management](#).

Your traffic package is only valid during the specified validity period. Any unused traffic will expire when the traffic package expires, and Alibaba Cloud will not provide replacements or complements.

## Other information

### Metering data statistics

The system collects summary data from domain names of the nodes across the CDN at intervals of 5 minutes (288 nodes a day). This data is used as the basis for billing.

### Differences between billed traffic and console monitoring traffic

The traffic shown on the console is derived from our log (recorded at the application layer) and is 7%-15% lower than the actual network traffic, due to:

**Consumption by TCP/IP packet header:** Our HTTP requests are based on TCP/IP. On the Internet, each packet contains up to 1,500 bytes, including a 40-byte header inserted by TCP/IP. This packet header also generates traffic. However, the packet header is added by the core protocol stack and cannot be counted by the application layer. Therefore, our log does not record these 40 bytes. This portion of traffic typically accounts for around 3% of the logged traffic.

**TCP retransmission:** Depending on the physical Internet load, about 3-10% of the packets we send are discarded by the Internet. The server will re-transmit such discarded packets over the core protocol stack, but the application layer is unable to count these packets. As a result, such traffic may make up a percentage of our logged traffic. The re-transmission rate may vary depending on the Internet connection quality. When Internet traffic is light, the re-transmission rate is low; during peak hours, the rate may rise 3%-7%.

Therefore, following industry standards, Alibaba Cloud includes an additional 7%-15% Internet traffic overhead in chargeable traffic. Alibaba Cloud takes the mean value of 10% and adds it to our statistics for Internet traffic consumption.

### After the CDN service is deactivated, it may still produce a small fee

Because the LocalDNS server has a cache, if the CDN service is deactivated but the cache has not expired, the LocalDNS will still directly hit the CDN node with requests directed at the stopped CDN domain. This will incur a small amount of CDN traffic fees.

Certain download software also has LocalDNS caches. In the period before these caches expire, a deactivated CDN domain may incur a small amount of CDN node traffic fees.

## Purchase procedure

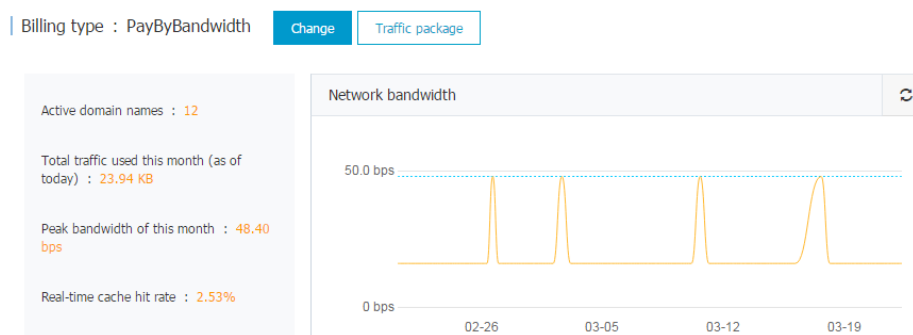
After logging on to the official Alibaba Cloud website, go to the CDN product description page to review features about the product. Then, click **Purchase now**.

On the order page, select the appropriate billing method (refer to [Price overview](#)). Once you confirm your order, the CDN service is activated.

When the CDN service has been activated, go to **Alibaba Cloud Console** > **Alibaba Cloud CDN** to add and manage CDN domains. For more details, refer to [CDN User Guide](#).

## Configuration change procedure

The current billing method is indicated on the CDN console overview page. If you need to change your billing type, click **Change**.



On the **Enable Service** page, you can see your current billing type, and below it is the new billing type to which it will be changed. Click **Activate**.



[Enable Service](#)

Current config

Instance name:

Billing Method: PayByPeakBandwidth

Configuration upgrade

ic Configur

Billing Method : PayByTraffic

Fee ¥ 0.00 /hour(s)

☒ CDNTerms of Service

Activate

The system will change the configuration at 00:00 on the second calendar day after the end of the current billing cycle. It takes 1 to 10 minutes to change the configuration. You may not submit another configuration change request for this CDN instance until the current configuration change takes effect.

A change from a PayByTraffic to PayByBandwidth billing type will take effect at 00:00 on the second day.

A change from a PayByBandwidth to PayByTraffic billing type will take effect at 00:00 on the second day.

## Overdue payment description

### About service stop

If a bill for a CDN service becomes overdue, that service may be interrupted.

Your service is suspended if your service fee is overdue by 24 hours. You will receive an SMS or email reminder to pay the overdue bill within 24 hours. If the overdue payment is received within 24 hours, your service is not affected.

If payment for the bill is not completed within 24 hours, your CDN service will be suspended. The cache resources you are using will then be released, but your configuration information will be retained for 12 months.

## Balance warning prompt

**PayByTraffic:** The system determines whether your account balance is sufficient to pay for your CDN service for the next three billing cycles based on the average amount payable under your CDN service bill for the last seven hours. If not, the system will send you an alert by SMS or email.

**PayByBandwidth:** The system determines whether your account balance is sufficient to pay for your CDN service for the next billing cycle (day) based on the amount payable under your CDN service bill for the last billing cycle (day). If not, the system will send you an alert by SMS or email.

If you have enabled the balance warning feature (Console > Billing Management > Balance Warning ON/OFF), you will receive an alert by SMS or email when your account balance falls below the warning threshold you have set.