

Content Delivery Network

Purchase Guide

Product Documentation



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CDN Purchase Guide

Billing Overview

Last updated : 2022-07-15 11:49:32

Starting from December 7, 2020, 21:30 (UTC +8), only **bill-by-hourly-traffic** is available for new CDN users. The billing mode cannot be changed after service activation.

The pricing tier of bill-by-hourly traffic is the same as it of the bill-by-daily traffic. See [Billing Overview](#).

Note:

For details on billing of ECDN domain names, see [Billing Overview](#).

Billing Overview

Area Division

Regions **inside the Chinese mainland** and **outside the Chinese mainland** have different billing plans.

- In the Chinese mainland, fees are the same for all regions.
- Regions outside the Chinese mainland are divided into eight billing areas according to the location of Tencent Cloud CDN node servers, namely, Asia Pacific Region 1, Asia Pacific Region 2, Asia Pacific Region 3, Middle East, Europe, North America, South America, and Africa, as shown below:

Areas	Covered Countries and Regions
Asia Pacific 1	Hong Kong (China), Macao (China), Vietnam, Singapore, Thailand
Asia Pacific 2	Taiwan (China), Japan, South Korea, Malaysia, Indonesia
Asia Pacific 3	Philippines, India, Australia, other Asia-Pacific countries and regions
Middle East	Saudi Arabia, United Arab Emirates, Turkey
Europe	United Kingdom, Russia, Germany, Italy, Ireland, France, Netherlands, Spain
North America	United States, Canada

Areas	Covered Countries and Regions
South America	Brazil
Africa	South Africa

Note:

CDN service fees for the Chinese mainland and regions outside the Chinese mainland are charged separately based on corresponding unit prices and usages.

Billing Mode

Billing Mode	Description	Billing Settlement	Billing Rules	Reference
Bill-by-bandwidth	Fees are charged based on daily peak bandwidth. Bandwidth values are collected once every five minutes to generate a total of 288 bandwidth statistical points per day, among which the highest is the daily peak bandwidth.	It is pay-as-you-go on the daily basis. Fees incurred between 00:00:00 and 23:59:59 on a day will be billed before 18:00 on the following day.	Tier	Billing Overview

Billing Mode	Description	Billing Settlement	Billing Rules	Reference
Bill-by-daily traffic	Fees are charged based on the actual daily traffic generated by your CDN nodes.	It is pay-as-you-go on the daily basis. Fees incurred between 00:00:00 and 23:59:59 on a day will be billed before 18:00 on the following day.	Monthly cumulative tier	Billing Overview
Bill-by-hourly traffic (default)	Fees are charged based on the actual hourly traffic generated by your CDN nodes.	It is pay-as-you-go on the hourly basis. Fees incurred in one hour will be billed in the following 2 to 4 hours.	Monthly cumulative tier	Billing Overview

VIP customer billing plan

If the actual or estimated consumption of your CDN service is more than USD 20,000, please contact Tencent Cloud sales for a more flexible and cost-saving monthly billing plan.

Billing Mode	Description	Use Case	Reference
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Billing Mode	Description	Use Case	Reference
Average daily peak bandwidth	A total of 288 CDN bandwidth statistical points are collected each day, among which the highest is the daily peak bandwidth. Then the daily peak bandwidth points of all valid days in a month are calculated to get the average peak bandwidth, i.e., the billable bandwidth value. Finally, the result value is used for billing based on the price in your service contract.	If the actual or estimated consumption of your CDN service is more than USD 20,000, please contact Tencent Cloud sales.	Billing Overview
Monthly 95th percentile	A total of 288 CDN bandwidth statistical points are collected each day, then the statistical points of all valid days in a month (starting from the 1st day) are sorted in descending order. Next, the top 5% points are discarded. Finally, the remaining statistical point with the greatest value is used as the bandwidth for billing based on the price in your service contract.	If the actual or estimated consumption of your CDN service is more than USD 20,000, please contact Tencent Cloud sales.	Billing Overview
Monthly traffic	The traffic generated in a month is accumulated for billing based on the price in your service contract.	If the actual or estimated consumption of your CDN service is more than USD 20,000, please contact Tencent Cloud sales.	/

Note:

- Each CDN node collects traffic data in real time and reports it to the billing center which aggregates the data entries into total traffic data. For bill-by-bandwidth, the bandwidth values are collected in 5-minute granularity, i.e., bandwidth value = 5-minute total traffic / 300 s. For example, if the total traffic generated in 5 minutes is 30 MB, the corresponding bandwidth will be $(30 * 8) / 300 = 0.8$ Mbps (1 MB = 8 Kbps).
- Base conversion: 1 GB = 1,000 MB; 1 MB = 1,000 KB; 1 Gbps = 1,000 Mbps; 1 Mbps = 1,000 Kbps.

Billing Details

Bill-by-peak bandwidth

CDN bandwidth adopts the **tiered pricing** as follows:

Bandwidth Tier (USD/Mbps/day)	Chinese mainland (CN)	North America (NA)	Europe (EU)	Asia Pacific Region 1 (AP1)	Asia Pacific Region 2 (AP2)	Asia Pacific Region 3 (AP3)	Middle East (ME)	Africa (AA)
0 Mbps - 500 Mbps	0.0815	0.2069	0.2069	0.3647	0.3928	0.5140	0.7391	0.5612
500 Mbps - 5 Gbps	0.0800	0.1964	0.1964	0.3216	0.3402	0.4679	0.6754	0.5137
5 Gbps - 50 Gbps	0.0754	0.1491	0.1491	0.2703	0.2859	0.3828	0.6075	0.4702
≥ 50 Gbps	0.0738	0.1055	0.1055	0.2436	0.2545	0.3267	0.5301	0.4281

Note:

If your CDN peak bandwidth is equal to or more than 50 Gbps, please [contact us](#) for discount information.

Calculation method

Assuming that the peak bandwidth of CDN in the Chinese mainland is X and there is no consumption outside the Chinese mainland, the calculation method for tiered pricing is as follows:

- If $X < 500$ Mbps, the bill amount will be $X * 0.0815$.
- If $500 \text{ Mbps} \leq X < 5,000$ Mbps, the bill amount will be $X * 0.0800$.
- If $5,000 \text{ Mbps} \leq X < 50,000$ Mbps, the bill amount will be $X * 0.0754$.

4. If $X \geq 50,000$ Mbps, please contact us for off-line contracting. We have more discount options for you.

You can use the [Price Calculator](#) for a price estimation.

Bill-by-traffic (hourly and daily)

CDN traffic pricing is based on a **monthly cumulative tier** as follows:

Traffic Tier (USD/GB)	the Chinese mainland (CN)	North America (NA)	Europe (EU)	Asia Pacific Region 1 (AP1)	Asia Pacific Region 2 (AP2)	Asia Pacific Region 3 (AP3)	Middle East (ME)	Africa (AA)	Sou America (SA)
0 TB - 2 TB	0.0323	0.0452	0.0452	0.0665	0.0798	0.0897	0.1080	0.1039	0.1039
2 TB - 10 TB	0.0308	0.0378	0.0378	0.0592	0.0737	0.0780	0.1000	0.0970	0.0970
10 TB - 50 TB	0.0277	0.0319	0.0319	0.0533	0.0677	0.0723	0.0940	0.0907	0.0907
50 TB - 100 TB	0.0231	0.0261	0.0261	0.0475	0.0590	0.0654	0.0863	0.0842	0.0842
≥ 100 TB	0.0169	0.0200	0.0200	0.0446	0.0503	0.0577	0.0794	0.0781	0.0781

Note:

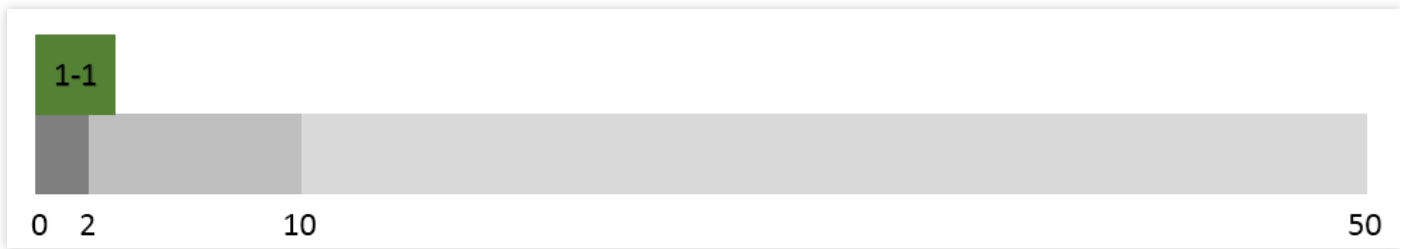
If your CDN traffic is equal to or more than 100 TB, please [contact us](#) for discount information.

Calculation method

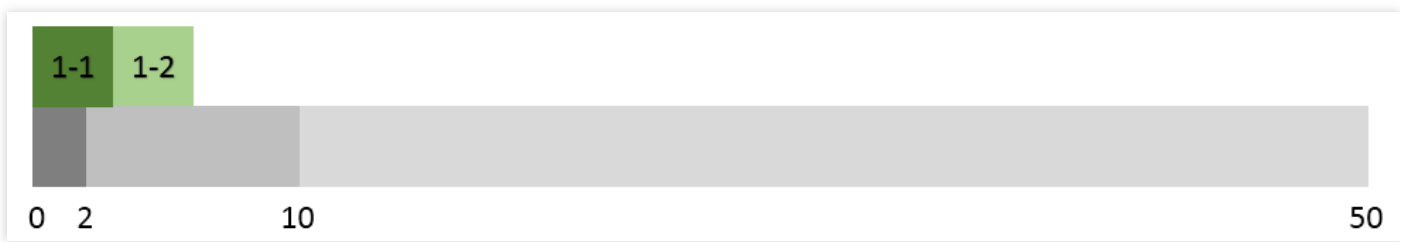
Unlike bill-by-bandwidth, bill-by-traffic is based on a monthly cumulative tier. Here is an example describing how the bill-by-daily traffic mode works:

- As shown in the figure below, assume that the traffic generated in the Chinese mainland on January 1 is 3 TB, and there is no consumption outside the Chinese mainland. The gray zone represents the actual billing tier and the green zone shows the traffic generated on January 1. As 2 TB lays in the 0 TB - 2 TB billing tier and the remaining 1

TB lays in the 2 TB - 10 TB tier, the actual fees for January 1 will be $2 * 1000 * 0.0323 + 1 * 1000 * 0.0308$.



- As shown in the figure below, assume that the traffic generated in the Chinese mainland on January 2 is also 3 TB, and there is no consumption outside the Chinese mainland. As bill-by-traffic is based on monthly cumulative traffic, all the 3 TB lays in the 2 TB - 10 TB tier, so the actual fees for January 2 will be $3 * 1000 * 0.0308$.



- As shown in the figure below, assume that the traffic generated in the Chinese mainland on January 3 is 7 TB and there is no consumption outside the Chinese mainland. Of this 7 TB, 4 TB lays in the 2 TB - 10 TB tier and the remaining 3 TB lays in the 10 TB - 50 TB tier, so the actual fees for January 3 will be $4 * 1000 * 0.0308 + 3 * 1000 * 0.0277$.



In this way, you can calculate the fee for each day in a month. When it is February 1, the consumption will be accumulated from 0 for tier calculation. You can use the [Price Calculator](#) for a price estimation.

Bill-by-average daily peak bandwidth

- Assume that a CDN billing officially starts on January 1 and the contracted price is P USD/Mbps/month.
- A valid day refers to a day when more than 0 Kbps of bandwidth is consumed.
- Assuming there are 14 valid days in January, we take the maximum value of the 288 statistical points for each of those 14 days as Max_1, Max_2, Max_3...and Max_14, respectively. The billable bandwidth will be Average

(Max_1, Max_2, Max_3...and Max_14), so the January fee is: $\text{Average}(\text{Max}_1, \text{Max}_2, \text{Max}_3 \dots \text{and} \text{Max}_{14}) * P * 14 / 31$.

Bill-by-monthly 95th percentile bandwidth

1. Assume that a CDN billing officially starts on January 1 and the contracted price is P USD/Mbps/month.
2. A valid day refers to a day when more than 0 Kbps of bandwidth is consumed.
3. Assuming there are 14 valid days in January, then $14 * 288$ statistical points will be collected and sorted in descending order. The highest 5% statistical points are discarded, so that Max95 is the highest point in the remaining statistical points, which is the billable bandwidth. The fee for January is: $\text{Max}_{95} * P * 14 / 31$.

Choosing a Billing Mode

Note:

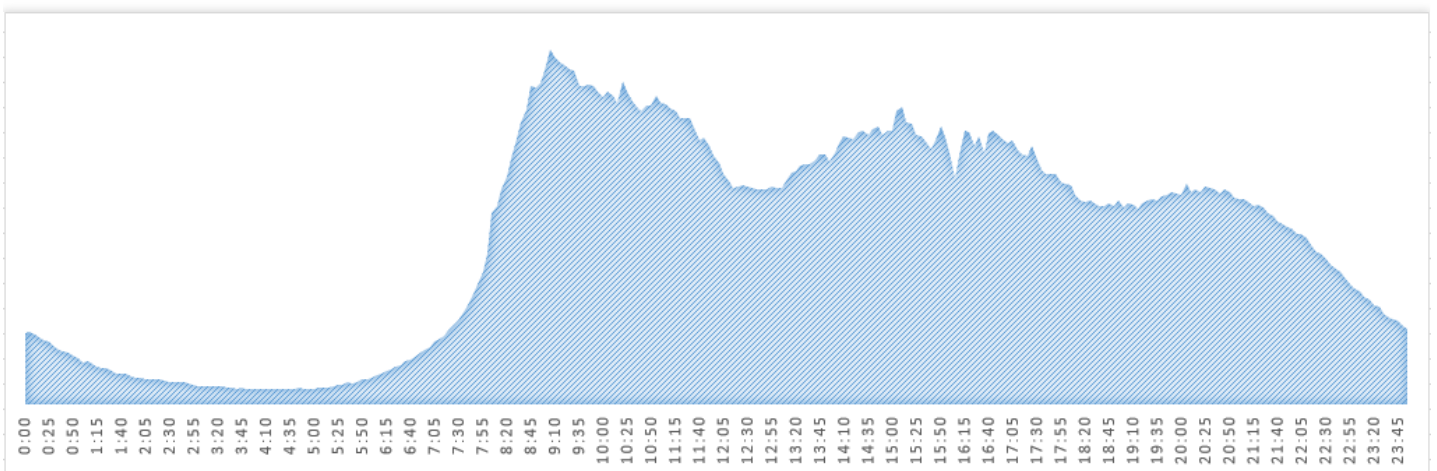
If you noticed that the selected billing mode is not suitable for your business needs during use, you can change it. For more information, please see [Changing Billing Mode](#).

Options:

CDN provides two billing modes: **bill-by-traffic** and **bill-by-bandwidth**. You can choose the billing mode as needed.

Calculation example:

Assuming that the traffic consumed between 00:00 and 23:59 yesterday was 200 GB, and there was no consumption in the regions outside the Chinese mainland. The peak bandwidth was 40 Mbps as the curve below:



If you select bill-by-traffic mode, you will need to pay: $200 * 0.037 = 7.4$ USD

If you select bill-by-bandwidth mode, you will need to pay: $40 * 0.094 = 3.76$ USD

In this specific example, bill-by-bandwidth is a more cost-effective billing model.

Value-added Services

QUIC support is a value-added service, which is billed based on the number of QUIC requests.

QUIC request billing

For details on QUIC request billing, see [QUIC](#).

Note:

- You are only charged when there're QUIC requests.

Billable item	Unit Price (USD/10k Requests)	Billing Method	Settlement Cycle
QUIC request	0.007	Pay-as-you-go	Hourly settlement

Overdue

Tencent Cloud will notify you through multiple channels including email and SMS for overdue payments. A 24-hour grace period is provided. If you fail to top up your account within 24 hours, your CDN service will be suspended. After your account is topped up, the domain name status will be automatically restored to the one before service suspension (this process takes some time).

Note:

When your acceleration service is suspended due to overdue payment, all your domain names will be disabled and all access requests will be forwarded to the origin server. You can query information but cannot modify configurations in the CDN console. Your CDN-related domain names and configurations will be retained for 12 months.

Changing Billing Mode

Last updated : 2021-08-11 10:36:08

Starting from December 7, 2020, 21:30 (UTC +8), only **bill-by-hourly-traffic** is available for new CDN users. The CDN billing mode cannot be changed after service activation. Additionally, changing the ECDN billing mode is not allowed.

If you have activated CDN before that time, you can change the billing mode as instructed in [Billing Overview](#).

Note :

If you are a Tencent Cloud VIP customer with a monthly billing plan, you can contact your Tencent Cloud sales rep to change your billing mode.

Notes:

The billing mode used to calculate the generated consumption on the current day will be also used for settlement on the following day.

- If you switch from bill-by-bandwidth to bill-by-traffic when consumption has yet to occur, you will be charged with bill-by-traffic on the following day unless you switch the billing mode again.
- If consumption has already occurred when you switch, you will be charged with bill-by-bandwidth on the following day. You will be charged with bill-by-traffic on the third day when calculating the consumption on the second day, unless you switch the billing mode again.

How to Change Billing Mode

1. Log in to the [CDN Console](#) and click **Overview** on the left sidebar to find the **Billing Mode** section and click **Change**.

Billing Method

Check [detailed billing instructions](#) , or use [domestic fee calculator](#)

Mainland China Unified Settle by monthly total traffic
[①](#)

Overseas Regional Settle by monthly total traffic
[Change](#)

2. Change the billing mode from **Bill by Traffic** to **Bill by Bandwidth** and click **Confirm**.

Change Billing Mode

You have already purchased within the current billing cycle. If you change the billing mode, the new mode will be effective from tomorrow.

Bill by traffic
Tiered traffic pricing: from USD0.04/GB

Bill by Bandwidth
Tiered bandwidth pricing: from USD0.11/Mbps/day

[See detailed billing instructions](#)

3. Your traffic packs can only be used when the billing mode is **bill-by-traffic**.

4. You can repeat the previous steps to cancel the switch.

Querying Bills

Last updated : 2021-03-03 17:31:12

Billing Guide

To view the bills and payment details of Tencent Cloud CDN, you can go to the [Tencent Cloud Billing Center](#).

Viewing Bills

1. On the left sidebar, click **Bills** -> **Bill Details** to enter the bill details page.
2. Open the **Bill by Instance** tab and select **Content Delivery Network** from the **All products** drop-down list to view bills of the CDN service for the Chinese mainland and regions outside the Chinese mainland.

Bill Details 2021-03

Bill by Instance Bill Details

Info The new version of Bills apply to bills from **March 2019** onwards. For bills before March 2019, please check [Bills 1.0](#). The current month's final bill for resource consumption will be generated on the 3rd day of the upcoming month. Prior to this date, deductions are not final and are for reference purposes only. Expense figures in Bill Details are accurate up to 8 decimal places. Expense figures in Bill by Instance are rounded off to 2 decimal places. Actual deduction amount will be in 2 decimal places. For more details, see [User Guide of Current Bills](#).

All products All Projects All Regions All Billing Modes All transaction types

All Tags Do not display \$0 transactions

Total Cost (Including Tax): **1,484.33 USD** Instance ID/Instance Name

Instance ID	Instance Name	Product Name	Subproduct Name	Billing Mode	Transaction Type	Region	Avail

Attack Prevention Solutions

Last updated : 2022-02-26 10:16:05

This guide will help you prevent extra costs from extensive bandwidth and traffic caused by malicious attacks and hotlinking.

Access Control

You are recommended to enable access control (free of charge) for your domain names in the console to avoid wasting bandwidth.

Item	Description
Hotlink protection	Configure an access control policy based on the value of the referer field in the HTTP request header, so as to restrict the the access sources and prevent malicious hotlinking.
IP blocklist/allowlist	By setting an access control policy based on requester IPs, you can restrict the access source to prevent malicious IP hotlinking and attacks.
IP access limit	By limiting the number of access requests per second from a client IP to a node, you can defend against high-frequency CC attacks and malicious hotlinking.
Authentication configuration	When the authentication is configured, the client needs to calculate the signature as configured and add it into a request sent to the server. The CDN node allows the request when the signature is authenticated.
UA blocklist/allowlist	Determines whether to allow a request based on the <code>User-Agent</code> of the HTTP request header.
Downstream speed limit	Controls the CDN downstream bandwidth by setting the maximum throughput speed of a URL on the server.

Traffic Management

You are recommended to enable traffic and bandwidth management for free to monitor the traffic and bandwidth usage of your domain name and receive alarm messages.

Item	Description
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Item	Description
Bandwidth cap	You can set up an upper limit for the bandwidth usage for your domain name. When the bandwidth generated in a sample period (5 minutes) exceeds the value you set, the requests will be forcibly forwarded to the origin server or CDN service will be suspended (a 404 error will be returned for all requests) to avoid extra bills.
Monitoring	Cloud Monitor helps monitor your CDN domain names and traffic usage. It also supports alerting via SMS, email and WeChat if the usage threshold is reached, allowing you to spot potential risks in a timely manner.
Traffic pack management	If you use the bill-by-traffic method, you can set the alarm policies in Traffic Pack Management in the console. An alarm message will be sent when the remaining traffic goes below the threshold.

Security Protection

To protect your business against potential attacks, you are recommended to enable SCDN. It helps defeat cyber attacks in all round by using DDoS cleansing, CC adaptive identification, intelligent WAF protection and bot analysis.

For domain names connected to Tencent Cloud CDN, you can enable SCDN easily to keep your business away from web, DDoS and CC attacks.

Feature	Description
Distributed cleansing	Backed by over 1,100 qualified CDN nodes and the high-performance cleansing module, this feature defends against various traffic attacks such as SYN, TCP and ICMP floods by accurately cleansing them using an advanced feature recognition algorithm. A single node leveraging Tencent Cloud's Anti-DDoS data centers can defeat up to 1 Tbps of DDoS attacks.
CC attack identification	Adopts patented intelligent CC attack identification and blocking technologies. Combining the default blocking policies and custom rules, users can filter out malicious access requests by configuring the frequency and traffic limit.
Intelligent WAF protection	This feature, based on Tencent's massive web attack samples, supports identifying good access requests from bad ones and protecting your real server against web attacks including SQL injection, XSS attacks and local file inclusion in real time. With the self-developed AI engine incorporating Tencent's billion-level threat intelligence, a more accurate and effective identification and blocking of web threats can be implemented.

Feature	Description
Bot analysis	Integrating with Tencent Cloud's AI-based WAF rules, this feature supports analyzing acceleration requests, identifying good bots from bad ones and managing custom rules. It provides a bot library covering various known bots from ads, screenshot tools, search engines, site monitoring and link querying, and an unique AI technology for user behavior modeling and determining the source of abnormal traffic.
Advanced access control	In addition to basic rules defined based on IP, Referer and UA blacklist/allowlist, this feature supports creating a complex access control rule by specifying fields such as client IP, URI, Referer, User-Agent and Params. Users can also he rule can also be tailored to different application scenarios by setting a combination of conditions (equal to, include or exclude).

CDN and COS Billing

Last updated : 2022-04-11 14:35:02

Overview

You can store all your static resources such as static scripts, audio/video files, images, and attachments in standard storage in COS, which features unlimited capacity and high-frequency reads/writes to provide scalable and reliable storage for static resources and reduce pressure on resource servers. In addition, static resources in COS can be connected to CDN for fast global delivery to clients.

Billing

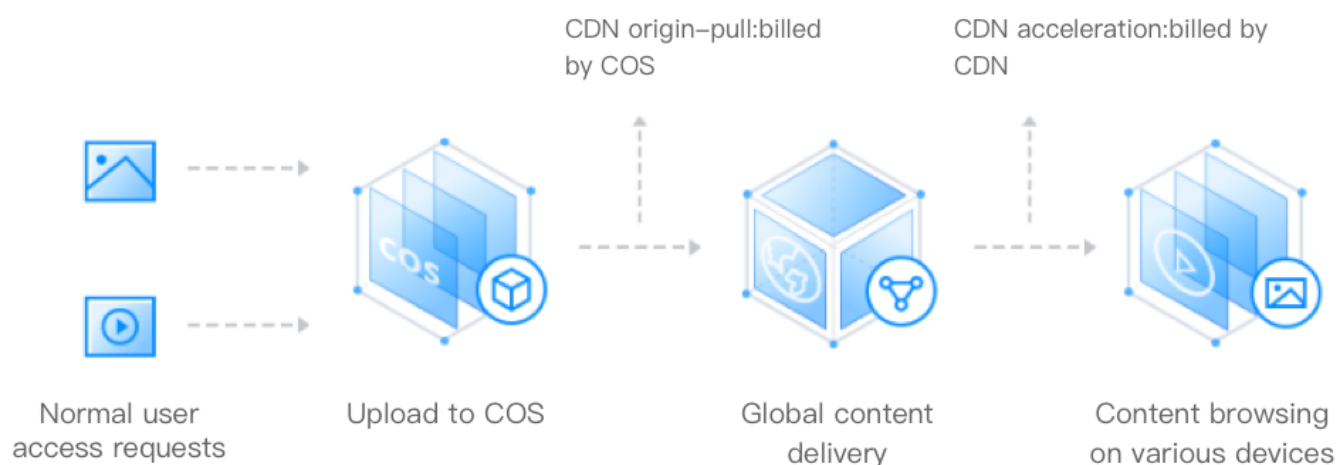
When COS serves as an origin server of CDN, billing consists of two parts: CDN billing (for acceleration) and COS billing (for origin-pulling).

CDN Billing

When CDN obtains resources from a nearby CDN node and delivers them to clients, the traffic consumed will be charged by CDN billing. For more information, please see [CDN Billing](#).

COS Billing

When CDN pulls resources from a COS origin server, the traffic consumed will be charged by COS billing. For more information, please see [COS Billing](#).



Billing FAQs

Last updated : 2021-03-15 15:31:34

Can CDN be billed by the number of requests?

No. Currently, CDN does not support billing by the number of requests.

What will happen if my account is overdue?

For more information, please see the [Overdue](#) section in the billing description document.

If the origin server uses COS, will I be charged for traffic generated by origin-pull from CDN to COS?

No. The traffic generated by origin-pull from CDN to COS is billed by COS instead of CDN. For more information, please see [COS as Origin Server of CDN](#).

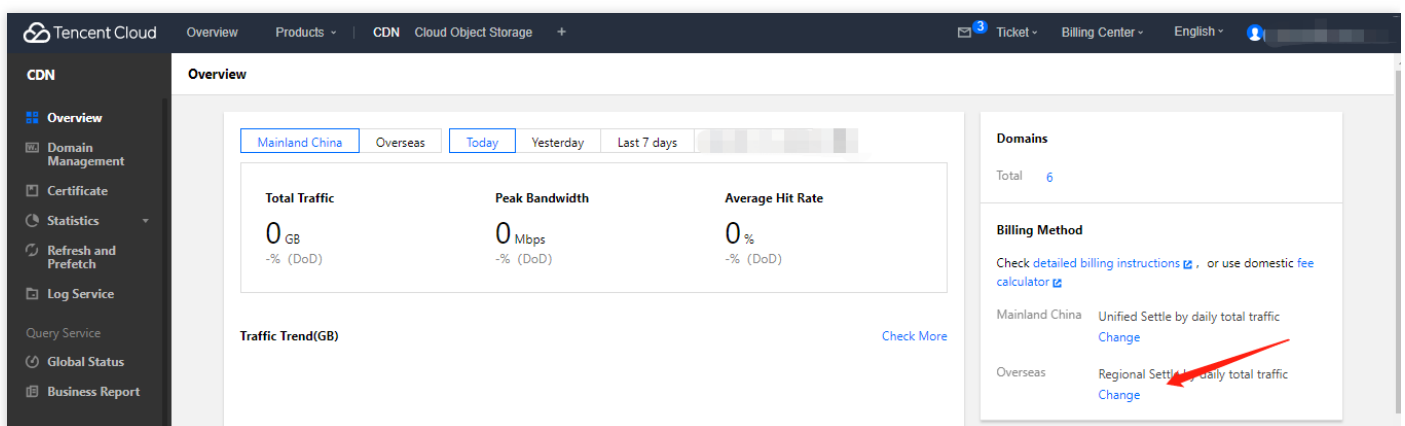
When CDN is disabled (or deactivated), will it generate traffic and incur fees?

After the CDN domain name acceleration service is disabled, if the domain name is still configured with CNAME, a 404 status code will be returned for requests resolved to the node and a small amount of traffic will be consumed. The console will record this traffic data for your reference. Corresponding logs will also be generated. However, since your domain name acceleration service has been disabled, you will not be billed for this traffic consumption and log packets. We recommend you modify the origin-pull resolution first before disabling the acceleration service.

How do I change the billing mode of CDN?

If you find the selected billing mode unsuitable for your actual business conditions (for more information on how to select the right billing mode for you, please see [Billing Overview](#)), you can change it by following the steps below:

1. Log in to the [CDN Console](#), access the service overview page, and click **Change** in the billing mode section on the right.



The screenshot displays the Tencent Cloud CDN Console Overview page. The interface includes a navigation menu on the left with options like Overview, Domain Management, Certificate, Statistics, Refresh and Prefetch, Log Service, Query Service, Global Status, and Business Report. The main content area shows traffic statistics for Mainland China and Overseas regions, including Total Traffic (0 GB), Peak Bandwidth (0 Mbps), and Average Hit Rate (0%). The Billing Method section on the right is highlighted, showing 'Unified Settle by daily total traffic' for Mainland China and 'Regional Settlement by daily total traffic' for Overseas. A red arrow points to the 'Change' link next to the Overseas billing method.

2. Change the original billing mode from **Bill by Traffic** to **Bill by Bandwidth**.

Change Billing Method ×

i Your account has not made any purchases in the current billing cycle. The new billing method will take effect from today.

Bill by Traffic
Monthly cumulative tier, calculated separately for each billing region

Bill by Bandwidth
Daily tier, calculated separately for each billing region

[Check detailed billing instructions](#)

Confirm **Cancel**

3. After you change the billing mode to **Bill by Bandwidth**, the charge for total consumption generated on the current date will be billed and deducted on the next day.

If the origin server uses CVM, will I be charged for traffic generated by origin-pull from CDN to CVM?

No. CDN does not charge for this type of traffic.

What is the conversion rate from Gbps to Mbps in CDN billing?

In CDN billing, 1 Gbps = 1000 Mbps, 1 Mbps = 1000 Kbps, and 1 Kbps = 1000 bps.

Is only downstream traffic billable in CDN?

Yes. CDN only charges for downstream, not upstream traffic.

How is CDN billed?

CDN offers two billing methods: bill-by-bandwidth and bill-by-traffic (default). Both methods are pay-as-you-go on a daily billing cycle. Payment for total consumption generated between 00:00:00–23:59:59 on the current date will be deducted before 18:00 next day. For more information on how to choose an appropriate billing method, please see [Billing Overview](#).

When are CDN fees deducted?

CDN is billed on a postpaid basis. The charge for total consumption generated on the current day is billed and deducted on the next day.

- If you switch from bill-by-bandwidth to bill-by-traffic and consumption has yet to occur for the day, you will be charged with the bill-by-traffic mode on the following day unless you switch the billing mode again.
- If consumption has already occurred, you will be charged with bill-by-bandwidth on the following day. You will be charged with bill-by-traffic on the third day when calculating the consumption on the second day, unless you switch the billing mode again.

If your monthly CDN service fees exceed or are expected to exceed USD 20,000, you may be eligible for a more flexible and cost-effective monthly billing plan. For more information, please submit a ticket to contact sales.

What is monthly 95th percentile billing?

Bill-by-Bandwidth is a billing method based on peak bandwidth use.

Monthly 95th Percentile: there are 288 CDN bandwidth statistical points per day. Starting from the 1st day of the current month, all statistical points of valid days (when bandwidth is actually consumed) are sorted in order. The top 5% statistical points are removed, and the remaining highest value is the billable bandwidth. The fee is then calculated based on the listing price and settlement mode.

Billing sample:

Suppose a customer's billing officially started on January 1 and the contracted price is P USD/Mbps/month.

Suppose there are 14 valid days in January, and the billable bandwidth for all 14 valid days has $14 * 288$ statistical points. The highest 5% statistical points are removed so that Max95 is the highest point in the remaining statistical points, which is the billable bandwidth. The fee for January is: $Max95 * P * 14 / 31$.

How can I check my CDN bills?

You can check your bills in the Tencent Cloud [Billing Center](#). For more information, please see [Bill Query](#).

Is there a delay in using APIs to query data? How long is it?

There is a certain delay in using APIs to query data. Queries of real-time data such as access data and billing data have a delay of around 5–10 minutes, while queries of analytical data such as rankings will have delays of approximately half an hour. The data is calibrated on the backend at around 3 am Beijing Time.