

Cloud Streaming Services

Release Notes and Announcements

Product Documentation



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Release Notes and Announcements

CSS Adds Support for AV1 Codec and Audio/Video Enhancement

Last updated : 2022-07-07 17:04:31

CSS started offering the AV1 encoding and audio/video enhancement features for a fee at **00:00 on June 1, 2022**.

Using the features may incur standard transcoding, top speed codec transcoding, and audio/video enhancement fees.

New Features

AV1 codec

AV1 is an open, royalty-free video codec designed for video transmissions over the internet by the Alliance for Open Media (AOMedia).

- It can transfer 1080p (1920 x 1080) video at 1-2 Mbps.
- It has 40% improved compression efficiency over H.264, which means you can save your CDN costs by 40% without compromising the playback experience.
- It is royalty-free and is supported by more browsers than H.265 (AV1 is supported by 75% of browsers on the market, including Chrome).
- Because both the AV1 and WebRTC technologies originated from Google, the two technologies work well together. You can use Tencent Cloud's [LEB](#) product together with the AV1 encoding feature to deliver low-latency and high-quality streaming experience at lower CDN costs.

Audio/Video enhancement

Based on our image restoration and enhancement modules and AI algorithms, we offer video quality enhancement capabilities including super-resolution reconstruction, smart frame interpolation, HDR enhancement, image noise removal, outline restoration, and other audio/video enhancement features.

How to Use the Features

AV1 codec

To use the AV1 codec, just set the codec for your transcoding template to AV1. For details, see [Live Transcoding](#).

Audio/Video enhancement

Please contact your sales rep or contact Customer Service to enable the audio/video enhancement feature.

Pricing

For billing details about the value-added service of live transcoding, see [Live Transcoding \(Watermarking, Stream Mixing\)](#).

Standard transcoding

Codec	Resolution	Price (USD/min)	Remarks
AV1	480p	0.0282	Long side ≤ 640 px and short side ≤ 480 px
	720p	0.0550	Long side ≤ 1280 px and short side ≤ 720 px
	1080p	0.1098	Long side ≤ 1936 px and short side ≤ 1088 px
	2K	0.2366	Long side ≤ 2560 px and short side ≤ 1440 px
	4K	0.4732	Long side > 2560 px or short side > 1440 px

Top speed codec transcoding

Codec	Resolution	Price (USD/min)	Remarks
AV1	480p	0.0698	Long side ≤ 640 px and short side ≤ 480 px
	720p	0.1330	Long side ≤ 1280 px and short side ≤ 720 px
	1080p	0.2658	Long side ≤ 1936 px and short side ≤ 1088 px
	2K	0.5318	Long side ≤ 2560 px and short side ≤ 1440 px
	4K	1.0634	Long side > 2560 px or short side > 1440 px

Audio/Video enhancement

Codec	Resolution	Price (USD/min)	Remarks
H.264	480p	0.1278	Long side ≤ 640 px and short side ≤ 480 px
	720p	0.2545	Long side ≤ 1280 px and short side ≤ 720 px
	1080p	0.5088	Long side ≤ 1936 px and short side ≤ 1088 px

	2K	1.0175	Long side \leq 2560 px and short side \leq 1440 px
	4K	2.0350	Long side $>$ 2560 px or short side $>$ 1440 px
H.265	480p	0.1510	Long side \leq 640 px and short side \leq 480 px
	720p	0.2988	Long side \leq 1280 px and short side \leq 720 px
	1080p	0.5973	Long side \leq 1936 px and short side \leq 1088 px
	2K	1.1947	Long side \leq 2560 px and short side \leq 1440 px
	4K	2.3893	Long side $>$ 2560 px or short side $>$ 1440 px
AV1	480p	0.1860	Long side \leq 640 px and short side \leq 480 px
	720p	0.3652	Long side \leq 1280 px and short side \leq 720 px
	1080p	0.7302	Long side \leq 1936 px and short side \leq 1088 px
	2K	1.4604	Long side \leq 2560 px and short side \leq 1440 px
	4K	2.9207	Long side $>$ 2560 px or short side $>$ 1440 px

Note :

If you have a large-scale live streaming business, then a daily billing mode may not meet your needs. Please contact Tencent Cloud sales or [submit a ticket](#) to determine the best billing mode for you.

If you have any questions, feel free to [contact us](#).

2022-05-27

Tencent Cloud CSS Team

Notice: CSS to Adjust Prices of Basic Services

Last updated : 2022-11-07 15:27:53

Due to operational cost changes, starting from **00:00 on January 4, 2022**, CSS will adjust the daily billing prices and pricing tiers of its basic services and bill usage outside the Chinese mainland by region instead of at a unified price.

Billable items with price changes: LVB playback traffic/bandwidth, LEB playback traffic/bandwidth, live push traffic/bandwidth

Notes

- The changes will take effect at 00:00 on January 4, 2022, but will not apply to bills generated on January 4, 2022 for January 3.
- If you have contract prices agreed with Tencent Cloud, you can contact sales or [submit a ticket](#) to confirm your future pricing strategies.
- Billing regions outside the Chinese mainland:
 - Asia Pacific 1: Hong Kong (China), Singapore, Macao (China), Vietnam, Thailand, Nepal, Cambodia
 - Asia Pacific 2: Taiwan (China), Japan, Malaysia, Indonesia, South Korea
 - Asia Pacific 3: Philippines, India, Australia
 - North America: United States, Canada
 - Europe: Netherlands, Germany, Russia, United Kingdom, Ireland, Italy, Spain, France
 - Middle East: United Arab Emirates, Türkiye, Qatar, Saudi Arabia, Bahrain
 - Africa: South Africa
 - South America: Brazil, Colombia
- For **details about the pricing of LVB and LEB**, please see [LVB Billing Overview](#) and [LEB Billing Overview](#).
- **The same billing method, tiered pricing rules, and billing regions (in/outside the Chinese mainland)** are used for live push and LVB playback.
- The new prices are subject to change due to exchange rate fluctuations. In case of conflict, the prices specified in the purchase guide of our website, the purchase page, and the price calculator will apply.

Bill-by-traffic in Chinese mainland

The table below lists the bill-by-traffic prices and pricing tiers for LVB playback, LEB playback, and live push before and after the price adjustment in the Chinese mainland:

Traffic Tier	Price of LVB Playback and Live Push (USD/GB/Day)	Price of LEB Playback (USD/GB/Day)

Traffic Tier	Price of LVB Playback and Live Push (USD/GB/Day)		Price of LEB Playback (USD/GB/Day)	
	Before	After	Before	After
0-500 GB	0.0417	0.0423	0.0835	0.0846
500 GB (inclusive) - 2 TB	0.0403		0.0797	
2 TB (inclusive) - 10 TB	0.0371	0.0407	0.0733	0.0813
10 TB (inclusive) - 50 TB		0.0390		0.0780
50 TB (inclusive) - 100 TB	0.0310	0.0358	0.0620	0.0715
100 TB (inclusive) - 1 PB	0.0258	0.0309	0.0516	0.0618
≥ 1 PB		0.0260		0.0520

Bill-by-bandwidth in Chinese mainland

The table below lists the bill-by-bandwidth prices and pricing tiers for LVB playback, LEB playback, and live push before and after the price adjustment in the Chinese mainland:

Bandwidth Tier	Price of LVB Playback and Live Push (USD/Mbps/Day)		Price of LEB Playback (USD/Mbps/Day)	
	Before	After	Before	After
0-500 Mbps	0.1041	0.1057	0.2065	0.2114
500 Mbps (inclusive) - 5 Gbps	0.1008	0.1024	0.2000	0.2049
5 Gbps (inclusive) - 20 Gbps	0.0959	0.0992	0.1903	0.1984
≥ 20 Gbps	0.0943	0.0943	0.1871	0.1886

Bill-by-traffic outside Chinese mainland

The table below lists the bill-by-traffic prices, pricing tiers, and billing regions for LVB playback, LEB playback, and live push before and after the price adjustment outside the Chinese mainland:

Before

Traffic Tier	Price of LVB Playback and Live Push (USD/GB/Day)
0-500 GB	0.0722
500 GB (inclusive) - 2 TB	0.0693
2 TB (inclusive) - 50 TB	0.0661
50 TB (inclusive) - 100 TB	0.0620
≥ 100 TB	0.0548

Traffic Tier	Price of LEB Playback (USD/GB/Day)
0-500 GB	0.1445
500 GB (inclusive) - 2 TB	0.1371
2 TB (inclusive) - 50 TB	0.1307
50 TB (inclusive) - 100 TB	0.1240
≥ 100 TB	0.1097

After

Traffic Tier	Price of LVB Playback and Live Push (USD/GB/Day)							
	Asia Pacific 1	Asia Pacific 2	Asia Pacific 3	North America	Europe	Middle East	Africa	South America
0-2 TB	0.0748	0.1236	0.1138	0.0715	0.0715	0.1951	0.1951	0.1675
2 TB (inclusive) - 50 TB	0.0699	0.1138	0.1041	0.0634	0.0634	0.1789	0.1789	0.1593
50 TB (inclusive) - 100 TB	0.0585	0.1057	0.0911	0.0504	0.0504	0.1675	0.1675	0.1463

Traffic Tier	Price of LVB Playback and Live Push (USD/GB/Day)							
	Asia Pacific 1	Asia Pacific 2	Asia Pacific 3	North America	Europe	Middle East	Africa	South America
100 TB (inclusive) - 1 PB	0.0504	0.0911	0.0813	0.0325	0.0325	0.1545	0.1545	0.1382
≥ 1 PB	0.0455	0.0846	0.0715	0.0260	0.0260	0.1382	0.1382	0.1301

Traffic Tier	Price of LEB Playback (USD/GB/Day)							
	Asia Pacific 1	Asia Pacific 2	Asia Pacific 3	North America	Europe	Middle East	Africa	South America
0-2 TB	0.1496	0.2472	0.2276	0.1431	0.1431	0.3902	0.3902	0.3350
2 TB (inclusive) - 50 TB	0.1398	0.2276	0.2081	0.1268	0.1268	0.3577	0.3577	0.3187
50 TB (inclusive) - 100 TB	0.1171	0.2114	0.1821	0.1008	0.1008	0.3350	0.3350	0.2927
100 TB (inclusive) - 1 PB	0.1008	0.1821	0.1626	0.0650	0.0650	0.3089	0.3089	0.2764
≥ 1 PB	0.0911	0.1691	0.1431	0.0520	0.0520	0.2764	0.2764	0.2602

Bill-by-bandwidth outside Chinese mainland

The table below lists the bill-by-bandwidth prices, pricing tiers, and billing regions for LVB playback, LEB playback, and live push before and after the price adjustment outside the Chinese mainland:

Before

Bandwidth Tier	Price of LVB Playback and Live Push (USD/Mbps/Day)
0-500 Mbps	0.2114

Bandwidth Tier	Price of LVB Playback and Live Push (USD/Mbps/Day)
500 Mbps (inclusive) - 5 Gbps	0.1951
≥ 5 Gbps	0.1789

Bandwidth Tier	Price of LEB Playback (USD/Mbps/Day)
0-500 Mbps	0.4194
500 Mbps (inclusive) - 5 Gbps	0.3871
≥ 5 Gbps	0.3540

After

Bandwidth Tier	Price of LVB Playback and Live Push (USD/Mbps/Day)							
	Asia Pacific 1	Asia Pacific 2	Asia Pacific 3	North America	Europe	Middle East	Africa	South America
0-500 Mbps	0.2049	0.6016	0.6228	0.1984	0.1984	0.9333	0.9333	0.8455
500 Mbps (inclusive) - 5 Gbps	0.1854	0.5415	0.6049	0.1805	0.1805	0.9203	0.9203	0.8276
5 Gbps (inclusive) - 20 Gbps	0.1707	0.4829	0.5561	0.1681	0.1681	0.9008	0.9008	0.8065
≥ 20 Gbps	0.1626	0.4228	0.5041	0.1593	0.1593	0.8911	0.8911	0.7967

Bandwidth Tier	Price of LEB Playback (USD/Mbps/Day)							
	Asia Pacific 1	Asia Pacific 2	Asia Pacific 3	North America	Europe	Middle East	Africa	South America
0-500 Mbps	0.4098	1.2033	1.2455	0.3967	0.3967	1.8667	1.8667	1.6911

Bandwidth Tier	Price of LEB Playback (USD/Mbps/Day)							
	Asia Pacific 1	Asia Pacific 2	Asia Pacific 3	North America	Europe	Middle East	Africa	South America
500 Mbps (inclusive) - 5 Gbps	0.3707	1.0829	1.2098	0.3610	0.3610	1.8407	1.8407	1.6553
5 Gbps (inclusive) - 20 Gbps	0.3415	0.9659	1.1122	0.3363	0.3363	1.8016	1.8016	1.6130
≥ 20 Gbps	0.3252	0.8455	1.0081	0.3187	0.3187	1.7821	1.7821	1.5935

The price changes will take effect on **January 4, 2022**. Please keep track of your balance and adjust your business if necessary.

If you have any questions, feel free to [contact us](#).

2021-11-18

Tencent Cloud Team

Notice: Time Shifting to Become Paid Feature

Last updated : 2022-07-07 17:04:31

We will start charging for use of the time shifting feature starting from **00:00 on June 1, 2022**.

Notes

- The time shifting feature is billed according to the **total time-shift period**. Using the time shifting feature will also incur [playback fees](#), which are charged based on the traffic/bandwidth consumed, [live recording fees](#), and [VOD storage fees](#).
- Total time-shift period = Total time-shift video length (minutes) x Time-shift days**

Note :

- Total time-shift video length: The total length (minutes) of the video files for which time shifting is enabled.
- Time-shift days: The number of days during which time shifting is allowed. Value range: 1-30.

- Before using the time shifting feature, you need to enable **live recording** and **VOD storage** first. The videos recorded must be in HLS format, and the time-shift days cannot be more than the storage days.
- Please [submit a ticket](#) to enable the time shifting feature. **When you no longer need the feature, we recommend you submit a ticket to disable it to avoid incurring unexpected charges.**

Pricing

Billable Item	Price (USD/(Min x Day)/Day)
Total time-shift period	0.00003

Billing Details

- Billable item: Total time-shift period
- Billing mode: Pay-as-you-go
- Billing cycle: Daily. The time shifting fee generated each day will be deducted from your account the following day. For the actual fee deduction and bill generation time, see your billing statement.

Calculation Formula

- Total time-shift period = Total time-shift video length (minutes) x Time-shift days
- Time-shift fee = Total time-shift period x Unit price

The above change took effect at **00:00 on January 1, 2022**, and your usage of the time shifting feature on January 1 would be billed on January 2. Please pay attention to your account balance and make any changes you deem necessary in a timely manner. If you have any questions, feel free to [contact us](#).

2022-05-09

Tencent Cloud Team

CSS to Adjust Pricing of Third-Party Relay

Last updated : 2022-07-19 10:59:17

CSS will adjust the pricing of relaying to third parties starting from **00:00 (UTC+8) on August 1, 2022**. The prices for relaying to third parties outside the Chinese mainland and Hong Kong will vary by region. For the Chinese mainland and Hong Kong, the price will remain the same.

The change will affect the billing of CSS. The billable item of `sp_live_dcrelay` will change from `dcrelay_bandwidth_monthly` to `dcrelay_bandwidth_monthly_regional`.

Notes

- The new prices will take effect starting from 00:00 (UTC+8) on August 1, 2022. They will apply to your bill for August, which will be generated between September 1 and September 3.
- If you have signed a contract with Tencent Cloud, please contact your sales rep or [submit a ticket](#) to learn about the prices that will apply for your account in the future.

Billing of Relaying to Third Parties

You can use the relaying service of CSS to relay live streams to third-party addresses. Third-party relay fees are charged based on the highest bandwidth (Mbps) used for relaying in each billing period. The price varies depending on the region to which your streams are relayed.

- Application scope: Fees are charged only if you relay to an address that is not a CSS push URL of the current account (the account that created the relay task).
- Billing mode: Monthly pay-as-you-go
- Billing cycle: Monthly billing. Your bill for each month is generated between the 1st and 3rd day of the following month.
- Billing rules: By default, third-party relay fees are charged in the pay-as-you-go mode based on your average daily peak bandwidth usage (for all third-party relay tasks) in each month. If a different billing mode is used for the LVB service under your account, that mode will apply to third-party relay.

Prices Before Change

Before the change, the price of relaying to third parties is the same for all regions.

Billable Item	Price (USD/Mbps/Month)	Description
Relay to third parties	12.67	Billed by bandwidth usage

Prices After Change

After the change, the price for relaying to third parties will vary with region. If you use the relaying service in multiple regions in the same billing period, it will be charged separately based on your peak bandwidth usage in each region.

Region	Price (USD/Mbps/Month)
Chinese mainland	12.67
Hong Kong (China)	12.67
Singapore	8.04
Frankfurt	7.1
Seoul	16.56
India	23.66
Thailand	13.01
Silicon Valley	7.1
Virginia	7.1
Jakarta	17.4
Japan	13.01
São Paulo	23.66
Other regions	12.67

The price change will take effect starting from **August 1, 2022**. If you have any questions, feel free to [contact us](#).

2022-07-12

Tencent Cloud Team