

Tencent Cloud EdgeOne Image&Video Processing Product Documentation



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Image&Video Processing

Audio and Video Pre-pulling

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Overview

When the network connection is unstable or the audio and video files are too large, users may encounter problems such as first-frame loading delay or playback lag. The audio and video pre-pulling feature of EdgeOne can effectively improve these problems. It automatically caches part of the audio and video data before the user clicks and plays, significantly shortening buffering time and ensuring a smooth viewing experience even under unstable network connection. Additionally, audio and video pre-pulling is the default configuration policy of EdgeOne, with optimal parameters set for audio and video scenarios. Users only need to select the corresponding recommended scenario when adding a domain name to enable the feature by default.

Feature Principle

HLS/DASH files: When the client requests an m3u8/mpd file, the edge node of EdgeOne pulls ts/m4s segments in advance to increase the speed of response to subsequent requests.

MP4/FLV files: When the client initiates a range request, by expanding the scope of the range request before the origin-pull, files are pre-cached to the edge node of EdgeOne to improve response efficiency.

Directions

If you need to enable the audio and video pre-pulling feature, you can refer to the following steps:

Note:

The current guidance on directions is only applicable to the scenario of newly created domain names. If you need to enable the audio and video pre-pulling feature for domain names already added under your account, contact your business personnel for assistance.

1. Log in to the [EdgeOne console](#), click **Site List** in the left menu bar, and click the **site** to be configured on the site list.
2. On the site details page, click **Domain Name Service**, select **Add domain name**, and refer to the [description of domain name configuration items](#) to complete the basic configuration of the domain name. Click the **Next** button.
3. In the **Recommended configuration (Optional)** step, click to select the **audio and video on demand** card, and choose to use the recommended configuration for this scenario. When audio and video files are added under this

domain name, the audio and video pre-pulling operation will be triggered by default.

4. Click **Next** and complete other subsequent domain name configuration operations.

Add domain name

✓ Domain configuration

>

2 Recommended configuration(Optional)

>

3 Modify resolution record

EdgeOne recommends enabling the following configurations based on different business scenarios to ensure the security and smooth operation of your business. Once these configurations are selected, a rule will be generated in the 'Rule Engine'. After adding the domain name, you can view it in the 'Rule Engine'. Alternatively, you can directly [Skip this step](#). After the domain name is added, go to the 'Rule Engine' to configure it manually.

website acceleration[Details](#)

It is suitable for e-commerce, websites, UGC communities and other business scenarios that mainly use small static resources (such as web page styles, pictures and small files).

audio and video on demand[Details](#)

Applicable to on-demand acceleration business scenarios of audio and video files such as online audio and video on demand.

WordPress website development[Details](#)

Suitable for business scenarios through developing websites with WordPress.

large file download[Details](#)

Applicable to large files, such as game installation packages, application updates, application package downloads and other business scenarios.

API acceleration **Paid Add-on**[Details](#)

Applicable to scenarios where dynamic resources (API interfaces, etc.) are the mainstay, such as account login, order transactions, API calls, and real-time queries.
Enabling API acceleration will activate the smart acceleration feature in the rule engine, which will incur additional charges.
Price explanation:100 VAU/million requests, 0.1CNY/VAU, [VAU Fee](#)

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Skip, no recommendation needed.

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Just-in-Time Image Processing

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Image Processing

Image Processing supports one-click activation of various self-adaptive processing features, such as automatic image quality slimming, adaptive format compression, and auto image correction. It also supports specifying width, height, and format conversion through parameter suffixes. The process of processing, caching and responding is taken place on EdgeOne servers. Your own origin only needs to store the original images, thus reducing image management costs on your side. EdgeOne can also compress images to improve page load speed without sacrificing visual impact.

Applicable Scenarios

The following table lists common use cases for Image Processing. Many scenarios are applicable, not limited to those listed.

Applicable Scenarios	Overview
E-commerce platform	Multiple image processing styles meet multi-terminal image display scenarios, making image editing more convenient. Compress product images and image comments, reduce image quality to save traffic.
social app	Simple, flexible editing methods meet social image standards and image processing needs. Support auto image rotation adjustment to enhance UGC scenario image content display.
Online Education	Simple, flexible editing methods meet standard image processing needs for courseware images in online education. Based on different scenario needs, you can be used to balance compression benefit and visual experience.

Pricing

This feature is billed based on the number of image resizing requests. For detailed prices, refer to [Media Just-In-Time Processing Duration Fee \(Pay-as-You-Go\)](#).

Supported Image Processing Capacity

Note:

Image slimming optimization, intelligent format compression, and automatic rotation adjustment features may cause a hit rate decline in a short time when enabled with one click. Not recommended to enable during peak business periods.

When image slimming optimization and intelligent format compression are enabled at the same time, the system will perform priority execution of intelligent format compression (convert images to the adapted format), then perform optimized processing for slimming based on the set parameters.

Image Slimming Optimizer

Suitable for most image distribution optimization scenarios. It supports automatic compression of file size when accessing images without changing resolution, dimension, or format, effectively improving loading speed with almost unaffected video quality and reduced distribution cost. Enable with one click—no modification required to business URL parameters. The automatic quality range is 1%-99%, with a default value of 75, representing 75% retention of original image quality.

Usage

1. Log in to the [Tencent Cloud EdgeOne console](#), enter **Service Overview** in the left menu bar, and click the **site** to be configured under **Website Security Acceleration**.
2. On the site details page, click **Multimedia Service > Image Processing** to enter the image processing webpage.
3. Click **Edit** to modify the percentage of quality slim. If no modification is made, the feature enablement will compress with a default value of 75%.
4. Click the **Image Slimming Optimizer switch** to get started.

Smart Format Compression

Advanced image volume compression feature. Once enabled, it automatically converts images to Webp or AVIF format based on configuration, thereby significantly improving image loading speed and reducing distribution cost. Supports one-click enable with no modification required to business URL parameters. If the same image format matches multiple enabled image adaptability features, they take effect in priority sequence from high to low: AVIF >

Webp. Different compression features vary in compatibility with existing image formats and browser environments.

See the table below:

Feature	Browsers and Systems Supporting Preview	Compatibility	Compression Effect	Supported Format
AVIF compression	It supports most browsers such as Firefox, Chrome, and Android. It supports iOS 16 and later, and Android 12 and later. Support WeChat mini program.	Strong	Extremely strong	Supports file formats including jpg, jpeg, bmp, gif, png, and webp.
WebP compression	Supports almost ALL mainstream browsers. It supports iOS 14 and later, and Android 4.0 and later. Support WeChat mini program.	Extremely strong	Medium	

Usage

1. Log in to the [Tencent Cloud EdgeOne console](#), enter **Service Overview** in the left menu bar, and click the **site** to be configured under **Website Security Acceleration**.
2. On the site details page, click **Multimedia Service > Image Processing** to enter the image processing webpage.
3. Click **Edit** to modify the output format range for format compression. Default value is Adaptive AVIF and Adaptive WebP.
4. Click the **Smart Format Compression switch** to get started.

Auto Rotation Correction

Suitable for UGC scenarios such as community forums and ecommerce platforms, where uploaded images may contain rotation parameters. When automatic rotation is enabled, EdgeOne Image Service parses the rotation information in EXIF metadata and automatically adjusts image orientation without requiring URL parameter modifications, ensuring correct display for end users.

Usage

1. Log in to the [Tencent Cloud EdgeOne console](#), enter **Service Overview** in the left menu bar, and click the **site** to be configured under **Website Security Acceleration**.
2. On the site details page, click **Multimedia Service > Image Processing** to enter the image processing webpage.
3. Click the **Auto Rotation Correction switch** to get started.

Custom Parameter Processing

Suitable for scenarios requiring specifying image scaling dimensions and format conversion. Support through concatenating parameter suffix after the business URL for quick processing of specified scaling dimensions and format. Support parameters as follows:

Scaling Dimensions

Capability	Parameter Name	Parameter Value (type/pixel)	Description
Scaling dimensions	eo-img.resize	w/<Width> ,for example : w/100	Specify width, height adaptive
		h/<Height> ,for example : h/100	Specify height, width adaptive
		w/<Width>/h/<Height> ,for example : w/100/h/100	Specify width and height
		l/<Long> ,for example : l/100	Specify long side, short side adaptive
		s/<Short> ,for example : s/100	Specify short side, long side adaptive

Format Conversion

Support converting the original image to the specified format by carrying the specified parameter

Capability	Parameter Name	Supported Input Formats	Supported Output Formats
Format Conversion	eo-img.format	Static image : jpg、png、bmp、jp2、jxr、gif、webp、avif、heif	All static : jpg、png、bmp、jp2、jxr、gif、heif、webp、avif
		Dynamic image : gif、webp、	Static : jpg、png、bmp、jp2、jxr (take

		avif、heif	the first frame of gif animation as a single static image) Dynamic : gif、webp、avif、heif
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Usage

You can add image processing parameters to the client request URL to resize images.

1. Log in to the [EdgeOne console](#), enter **Service Overview** in the left menu bar, and click the **site** to be configured under **Website Security Acceleration**.
2. On the site details page, click **Multimedia Services** > **Image Processing** to go to the image processing page.
3. Click **Custom Parameter Processing** > **Switch** to start using it.

4. After enabled, you only need to pass the image scaling demand by concatenating the eo-img related parameter to the Request URL in the Client requests. EdgeOne will automatically complete the image processing based on the image processing parameter in the Request URL. For example: `https://www.example.com/foo.png?eo-img.resize=w/100`。

Image Processing Example

In the following examples, the original image is 500 × 280 pixels in resolution and 500 KB in size.

1. Resize the image width to 200 pixels and scale the height automatically:

Request URL: `http://www.example.com/foo.png?eo-img.resize=w/200`

2. Resize the image height to 200 pixels and scale the width automatically:

Request URL: `http://www.example.com/foo.png?eo-img.resize=h/200`

3. To resize the image width to 300 pixels and the height to 200 pixels:

Request URL: `http://www.example.com/foo.png?eo-img.resize=w/300/h/200`

Important :

If both the width and height are specified, the aspect ratio of the original image may not be retained.

4. Resize the long side to 400 pixels and scale the short side automatically:

Request URL: `http://www.example.com/foo.png?eo-img.resize=l/400`

5. Resize the short side to 200 pixels and scale the long side automatically:

Request URL: `http://www.example.com/foo.png?eo-img.resize=s/200`

6. Convert the image format to WebP:

Request URL: `http://www.example.com/foo.png?eo-img.format=webp`

Output image format: WebP

7. Resize the width to 200 pixels, scale the height automatically, and convert the format to WebP.

Request URL: `http://www.example.com/foo.png?eo-img.resize=w/200&eo-img.format=webp`

Limitations

The original image size for processing should not exceed 32MB.

The width and height of the input original image should not exceed 30,000 pixels, and the total pixels should not exceed 250 million pixels; for dynamic images, the width x height x frame count of the original image should not exceed 250 million pixels.

The input gif format animation frame count should not exceed 300 frames.

The width and height settings of the output image should not exceed 9999 pixels.

Note :

Any of the following situations may cause the image processing to fail and return the original image:

1. If any parameter of the original image and the result image for image processing exceeds the above limits, we will not be able to process the image and can only respond with the original image.
2. If incorrect request parameters are entered, the image will not be processed and will be returned directly as the original image, such as the following situations:

Duplicate input parameters: `eo-img.resize=w/100&eo-img.resize=w/200` , which will be considered as illegal parameter passing;

Spelling error: any format error or spelling error parameter, such as `eo-img.resize=w=100` , will be considered as illegal parameter passing;

Resize parameter error: the parameters `w/` (width) and `h/` (height) should not be mixed with `s/` (short side) and `l/` (long side). For example, `w/300/s/200` is illegal parameter passing, and the image will remain unchanged.

3. If the image custom parameter processing function is turned off within the console, all eo-img related parameters will be treated as normal query strings and will not trigger the image processing function.
4. If other exceptions occur that prevent normal image processing, we will prioritize providing the original image, and in subsequent requests, we will automatically try to reprocess the image.

Video Just-In-Time Processing

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Overview

Video transcoding is one of the most common video processing methods, which can change the codec, resolution, bitrate and other parameters of the original video to adapt to the playback on different terminals and in network environments.

The traditional offline transcoding is an asynchronous processing mode that requires pre-decoding and encoding of the entire audio and video. The processing time is often 30% to 50% of the original video duration, and the user has to wait for a long time.

EdgeOne's video just-in-time processing allows audio and video files to be distributed and transcoded immediately after upload, without waiting. Regardless of the video duration, playback in seconds can be achieved, providing users with a new media processing experience.

Billing Instructions

This feature is a paid service and will be billed based on the video processing duration. For details, see [Billing Instructions](#).

Features

Advantage	Details
Ease of use	There is no need to integrate media processing APIs or SDKs to initiate processing tasks or receive offline transcoding task completion callbacks. The just-in-time transcoding processing allows just-in-time playback of transcoded videos by adding parameters to the original video playback address.
Very short time	The offline transcoding requires asynchronous waiting for the transcoding task to complete. For the just-in-time transcoding, regardless of the original video duration, the just-in-time transcoded video can be played in a very short time, almost without waiting.
Reduced storage cost	The traditional offline transcoding feature requires the storage of newly processed file contents, but the just-in-time transcoding does not require the

storage of processed videos. It supports caching only to the EdgeOne edge nodes, which reduces the storage cost of the origin server by multiples.

Practical Scenarios

Scenario	Details
UGC user uploaded video	The just-in-time transcoding processing takes much less time than the offline processing and is completed almost in sync with distribution. In UGC user scenarios, it allows immediate distribution and playback after upload, greatly enhancing the UGC user experience and increasing user stickiness.
Long online education video	Long online course video files are usually large, and their codec will cause storage costs to grow exponentially. For example, transcoding an original MP4 video in the traditional way requires separate conversion to 720p, 1080p, and 2k resolutions and muxing into HLS format, so a total of four video files need to be stored. However, if the just-in-time transcoding is used, only one original file needs to be stored, significantly saving storage costs.
TV stations and OTT	Some video content requires continuous modifications. Video creators can only save the video in MP4 format for easy editing. When there is a terminal playback request, the latest version of the video content will be processed through just-in-time transcoding to a resolution and muxing format for easy playback and immediately distributed, greatly improving efficiency.

Preparations

In EdgeOne, the domain name has been added, and the origin server can support video just-in-time processing. Currently, the range of origin servers that are supported by the video just-in-time processing feature includes [Video on Demand \(VOD\)](#) and Other object storage origin servers (including cloud vendor object storage origin servers). For VOD origin server instructions, refer to [VOD origin server instructions](#).

Note:

If your current domain name has [Token Authentication](#) enabled and the authentication method used is not [TypeV Authentication](#), we recommend that you change the authentication method to TypeV when using the just-in-time transcoding processing to avoid failure in authentication after the video is transcoded to HLS.

Use Method

You can directly implement video processing by concatenating just-in-time processing-related parameters in the client request URL. Refer to the following steps to learn how to use it.

1. Log in to the [Tencent Cloud EdgeOne console](#), enter **Service Overview** in the left menu bar, and click the **site** to be configured under **Website Security Acceleration**.
2. On the site details page, click **Multimedia Services > Audio and Video Processing** to find the **Video Just-In-Time Processing** card.
3. Click the **Switch for Video Just-In-Time Processing** to enable this capability.
4. After this capacity is enabled, you just need to concatenate `/ .edgeone-video` and other relevant parameters after the client request URL to pass video processing requirements. EdgeOne will automatically complete the video processing based on the video processing parameters in the client request URL. For parameter concatenation instructions, refer to: [How to Concatenate Just-In-Time Transcoding URL](#).

How to Concatenate Just-In-Time Transcoding URL

You can distribute transcoded videos by spelling the just-in-time transcoded file address according to the following rules, or directly use the [Generate Transcoding Address Tool](#) to obtain the transcoded file URL. The specific rules are as follows:

```
https://www.example.com/video.mp4/.edgeone-video/template={templateName}/media.{ext}
```

It consists of the following four parts:

1. **Original video URL:** It is the complete URL of the original video, for example:
`https://www.example.com/video.mp4` .
2. **Fixed parameter for video processing:** It is the fixed `/ .edgeone-video` directory filled in, indicating the use of EdgeOne's video processing feature.
3. **Just-in-time transcoding template:** It is a template specified for just-in-time transcoding, and `{templateName}` is the template name. Refer to [Just-In-Time Transcoding Template](#) for supported templates.
4. **Transcoded file name:** This parameter is fixed as `media` concatenated with a suffix `{ext}` . Currently, the supported suffixes include m3u8 and mp4, representing converted HLS and MP4 formats respectively. The specific muxing format supported is determined by [Just-In-Time Transcoding Template](#).

Just-In-Time Transcoding Template

EdgeOne provides you with 5 just-in-time transcoding templates. You can choose any of the following transcoding templates based on the resolution you need.

Note:

Note the corresponding audio and video output muxing format when using transcoding templates.

Template Name	Transcoding Template Description	Applicable Muxing Format
---------------	----------------------------------	--------------------------

SystemPresetAvcAac540p	Video resolution: 540P, video codec: H.264, video frame rate: 25fps, and audio codec: AAC and dual-channel	Supports HLS
SystemPresetAvcAac720p	Video resolution: 720P, video codec: H.264, video frame rate: 25fps, and audio codec: AAC and dual-channel	Supports HLS
SystemPresetAvcAac1080p	Video resolution: 1080P, video codec: H.264, video frame rate: 25fps, and audio codec: AAC and dual-channel	Supports HLS
SystemPresetAvcAacSourceResolution	Video resolution: same as that of the original video, video codec: H.264, video frame rate: 25fps, and audio codec: AAC and dual-channel	Supports HLS
SystemPresetRemux	Only remuxing required, which means that the video resolution, video codec, audio codec, and number of channels are all the same as those of the original video	Supports HLS and MP4

If the above transcoding templates cannot meet your transcoding requirements, please [contact us](#).

Spelling Example

Assume your video playback URL is: `https://www.example.com/video.mp4`

If you want to obtain the just-in-time transcoded HLS output, choose the `SystemPresetAvcAacSourceResolution` template. The concatenated just-in-time transcoded URL is:

```
https://www.example.com/video.mp4/.edgeone-  
video/template=SystSystemPresetAvcAacSourceResolutionia.m3u8
```

If you want to transcode the video to the HLS format output with 1080P resolution, you can choose the `SystemPresetAvcAac1080p` template. The spelled URL is:

```
https://www.example.com/video.mp4/.edgeone-  
video/template=SystemPresetAvcAac1080p/media.m3u8
```

If you want to transcode the video to the MP4 format output with 1080P resolution, you can choose the `SystemPresetAvcAac1080p` template, and the file suffix in the URL needs to be changed to mp4. The spelled URL is:

```
https://www.example.com/video.mp4/.edgeone-  
video/template=SystemPresetAvcAac1080p/media.mp4
```

Using the Generate Transcoding Address Tool

To facilitate users to quickly obtain the transcoding address after parameter concatenation, the EdgeOne console provides the Generate Transcoding Address Tool. By filling in the required transcoding parameters, you can obtain the

transcoded file URL.

1. Log in to the [Tencent Cloud EdgeOne console](#), enter **Service Overview** in the left menu bar, and click the **site** to be configured under **Website Security Acceleration**.
2. On the site details page, click **Multimedia Services > Audio and Video Processing** to find the **Video Just-In-Time Processing** card.
3. Click the **Switch for Video Just-In-Time Processing**. After this capability is enabled, click the **Generate transcoding address tool**.
4. Select a domain name in the site, where the origin server is [Video on Demand \(VOD\)](#) or object storage origin servers. Fill in the path of the video to be transcoded and check the target transcoding configuration. Click **Preview** to preview whether the original video and the transcoded video can play normally. Click **Copy link** to get the transcoded video playback address for accelerated distribution.

Network protocol: Support HTTP and HTTPS. Note that HTTP protocol cannot be used to preview transcoded videos in the console due to browser limitations; preview and play them externally.

Domain name: Select a domain name that is already bound to the [Video on Demand \(VOD\)](#) or object storage origin servers. If you need to create an origin server, refer to the VOD origin server guide.

Video path: Fill in the access path of audio and video files in the Video on Demand (VOD) or object storage origin servers, such as: `video/test.mp4`.

Just-in-time transcoding template: Select a pre-made just-in-time transcoding template. The applicable output video muxing formats for each template can be found in the [Transcoding Template](#).

Muxing format: For video playback, it is recommended to choose the HLS format. The MP4 format is recommended only for video download scenarios.

Preview of original videos: If the original video plays normally, it indicates that the original video path is legal. Otherwise, check if the video path is correct.

Preview of transcoded videos: If the previewed transcoded video plays normally, it indicates that the just-in-time transcoding feature has been successfully triggered. If it is an MP4 file, it will be directly downloaded from the console and preview is not supported.

Use Limits

Original Video Limits

Original videos must be stored in Tencent Cloud VOD or COS.

The original video shall have a duration of no longer than 10 hours, a size of no more than 50 GB, a maximum resolution of 2K, a bitrate of no more than 10 Mbps, and a frame rate of no more than 60 fps.

When the SystemPresetRemux is used for remuxing, the input video must have the video codec of H.264 and the audio codec of AAC.

The following formats are supported for original videos, but it is required that the video and audio indexes are contained in muxing.

Video: MOV, MPEG, MP4, AVI, TS, MKV, M3U8, and M4V.

Audio: MP3, M4A, WAV, and AAC.

Transcoded Video Limits

For HLS format output, multipart transcoding only supports MPEG-TS.

For HLS format output, if Token authentication is enabled for the domain name, only playback under [TypeV](#) authentication is supported.

For MP4 format output, the file content uses progressive encoding (some players may not support this type of MP4 playback), and only supports the SystemPresetRemux template.

Request Rate Limiting

Video instant processing has a default request rate limit of 20 requests per second for each domain. This rate limit does not apply to requests accessing previously cached transcoded videos.

If you anticipate that your request rate might exceed this limit, we recommend [contacting us](#) in advance so we can prepare resources for your business and avoid issues caused by request limitations.

For requests that exceed the rate limit, the system will take the following measures:

HLS format output:

When requesting M3U8 index files, a 302 status code will be returned, temporarily redirecting to the original video.

When requesting MPEG-TS video segments, a 429 status code will be returned, indicating too many requests.

MP4 format output: A 302 status code will be returned, temporarily redirecting to the original video.

VOD Media Origin

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Origin Server Introduction

Tencent Cloud Video on Demand (VOD) offers integrated high-quality media services, such as production and upload, storage, transcoding, Media Processing Service (MPS), media AI, copyright protection, and play for media, such as audio, video, and images.

VOD Origin Server Advantages

Advantage	Description
Multi-dimensional cost optimization	VOD provides media services with strategies such as cold storage and smart bitrate reduction. By optimizing costs in detail according to real-time media playback, it effectively saves storage and distribution costs for users.
Scenario-based transcoding	VOD offers superior transcoding capabilities for various industry scenarios. Utilizing technologies like intelligent scene recognition, dynamic encoding, and the CTU/row/frame three-level bitrate precision control model, it achieves higher subjective image quality at a lower bitrate (nearly 50%), realizing high image quality at a low bitrate , and saves network traffic and storage costs.
Stable storage	VOD supports backup storage of video files across architectures and devices, and provides cross-region disaster recovery and user resource isolation, greatly enhancing storage stability.
High-quality upload	VOD improves data transfer efficiency and stability in poor network conditions through various upload acceleration measures, such as scheduling optimization, global multi-storage park coverage optimization, link supplementation, transmission optimization, and the Quick UDP Internet Connections (QUIC) protocol, improving the upload speed and success rate.
Copyright protection	Copyright protection features of VOD include the hotlink protection, ghost watermark, HTTP Live Streaming (HLS) private encryption, and commercial-grade Digital Rights Management (DRM) encryption, providing high-level security for content rights owners.
Audio/video distribution optimization	When users select the VOD origin server, the EdgeOne acceleration service automatically enables the pre-fetching capability of audio and video files by default. It supports segment fetching and caching of HLS/DASH/MP4/FLV format files to edge nodes when a client request is made, enhancing the response speed of video files, thereby

optimizing the time it takes to start playing videos and reducing the rate of playback stuttering.

VOD Origin Server Use Cases

Application Scenario	Scenario Description
Online education	Online education refers to a teaching method that uses the network as a medium, where students and teachers conduct educational activities online. Platforms generally have a large number of audio and video teaching resources, most of which are recorded and uploaded by registered teachers. VOD offers features like multi-end playback, smart subtitles, copyright protection, time shifting, VOD to live streaming, and content review for this scenario, helping users quickly build an audio and video teaching platform.
Ecommerce apps	Ecommerce apps are online transaction platforms where enterprises and individuals can market and sell their products. Sellers typically produce and upload product images and videos to better showcase their products. Buyers can also upload images and videos to share feedback about their shopping experience or write product reviews. VOD provides features such as HD with low bitrate, smart screenshot cover, multi-bitrate smart switching, upload acceleration, and tag classification for this scenario, thereby helping users better showcase their ecommerce products.
TV stations and over-the-top (OTT)	TV stations and OTT primarily offers streaming media services based on TV terminals. VOD provides features for this scenario, such as Top Speed Codec (TSC) transcoding, multi-bitrate smart switching, copyright protection, media AI recognition, VOD to live streaming, and video production, helping users quickly build a smart media asset library and offering diverse applications like cloud editing and video directing.
Live streaming apps	Live streaming apps allow hosts to broadcast, deliver commentary, or perform live over the network, such as live show streaming, game live streaming, live classes, live shopping, and live Q&A. VOD provides capabilities such as live recording, time shifting, live editing, TSC, and VOD to live streaming, to help users quickly establish a stable and reliable live streaming platform.

Use Limits

Using the VOD origin server will automatically provide more suitable distribution acceleration configurations for your media content. Therefore, when using the rule engine and site acceleration configurations for a VOD origin server, the VOD default configurations will be used for some operations to offer better distribution acceleration effects. To prevent

conflicts between custom configurations and default settings, some site acceleration configuration and rule engine operations will not be supported. The detailed limits are as follows:

Note:

To modify the following unsupported configuration items for the VOD origin server, [contact us](#).

Feature Module	Operation Type	Operation	Limit
Rule engine	Cache configuration	Node Cache TTL	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Browser Cache TTL	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Custom Cache Key	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Status Code Cache TTL	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Cache Prefresh	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Offline Cache	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
	Network optimization	HTTP/2	Custom configurations are supported.
		Enable HTTP/3	Custom configurations are supported.
		WebSocket	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Maximum Upload Size	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Smart Compression	Custom configurations are not supported. If they are configured, the configuration content will not take effect.

		Smart Acceleration	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		HTTP/2 Origin-Pull	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Origin-Pull Timeout	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
	HTTPS optimization	Forced HTTPS Access	Custom configurations are supported.
		Enabling HSTS	Custom configurations are supported.
		Configuring SSL/TLS Security	Custom configurations are supported.
		Enabling OCSP Stapling	Custom configurations are supported.
		Configuring Origin-Pull HTTPS	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
	HTTP header modification	Modifying HTTP Response Headers	Custom configurations are supported.
		Client IP Geolocation Header	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Client IP Geographical Location	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Modifying HTTP Request Headers	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Host Header Rewrite	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
	Advanced configuration	Access URL Redirection	Custom configurations are supported.

		Token Authentication	Supports custom A/D Authentication Method, does not support custom B/C Authentication Method
		Origin Server Modification	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Origin URL Rewrite Configuration	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Controlling Origin-pull Requests	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Redirect Following During Origin-Pull	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Custom Error Page	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Range GETs	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		HTTP Response	Custom configurations are supported.
Site acceleration	Cache configuration	Query string	Custom configurations are not supported. If they are configured, the configuration content will not take effect.
		Ignore case	Custom configurations are not supported. If they are configured, the configuration content will not take effect.