

# **VOD on EdgeOne**

## **Product Introduction**

## **Product Documentation**



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# Product Introduction

## Overview

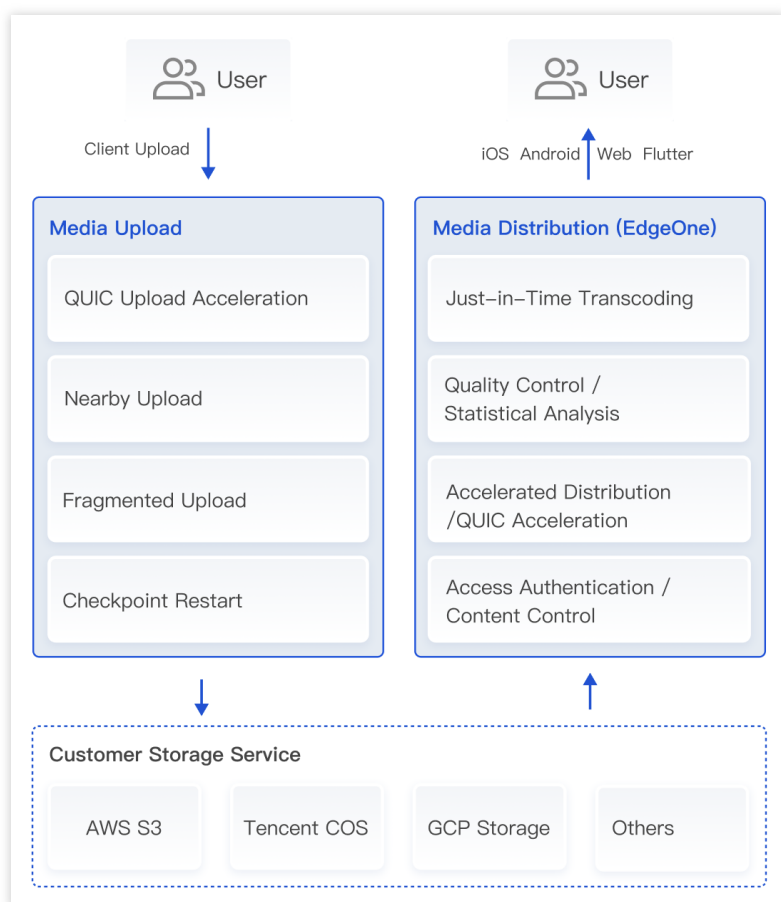
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Video on Demand on Tencent Cloud EdgeOne (VOD on EO) is dedicated to media management services, capable of managing media data stored in object storage products (e.g. AWS S3, Tencent Cloud COS). It offers integrated capabilities such as upload acceleration, media processing, media lifecycle, ad insertion, and content accelerated distribution.

VOD on EO is deeply integrated with the [Tencent Cloud EdgeOne](#), providing comprehensive media management services for your media data stored in third-party object storage services. Simultaneously, VOD on EO supports deploying media processing services to the same availability zone as the third-party storage service you use, potentially saving you a significant amount of outbound storage fees from third-party storage services.

You can swiftly use the features of VOD on EO through its console or API, thereby constructing your video on demand platform.

## Architecture



# Strengths

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## Flexible Storage Solution Selection

As audio and video technologies evolve rapidly, the migration of media files requires a significant investment in terms of development efforts, time, and financial resources. However, VOD on EO offers flexible media storage solutions, enabling you to rapidly use Video on Demand media services, without the need for media asset migration, thereby efficiently optimizing audio and video experiences within your product.

**Third-Party Storage Authorization:** VOD on EO supports adding authorized third-party storage to the VOD on EO's applications. After the authorization, you could immediately use services such as upload acceleration, media processing, and distribution acceleration.

## Highly Stable, Rapid Media Uploads

VOD on EO offers a variety of upload methods, including upload SDK, cloud API, console, and more. It provides capabilities such as checkpoint upload, multipart upload, and QUIC upload acceleration, satisfying a wide range of user upload requirements with high quality.

**Client-Side Upload Acceleration:** It offers global accelerated uploading, intelligently selecting the optimal link, while also supporting data transmission using the QUIC protocol. This effectively enhances media upload speed and transmission stability in weak network environments.

**Multiple Upload Methods:** It supports a variety of media upload methods, including local upload, URL pull upload, API upload, and client-side upload.

**Superior Upload Quality:** Through measures such as scheduling optimization, global multi-storage park coverage optimization, link supplementation, transmission optimization, and protocol optimization, we achieve an upload success rate of over 99.5% (including weak network environments and large file uploads), leading the industry in upload quality.

## Global Media Distribution

The global media distribution service of VOD on EO is provided by EdgeOne. EdgeOne supports handling large concurrent requests during peak periods, effectively responding to high concurrency. It ensures a high availability of distribution services and satisfactory media transmission speeds, helping you deliver a stable, smooth, and feature-rich viewing experience.

With over 2800 CDN video acceleration nodes worldwide, a nationwide BGP network, and more than 17 operators spread across the country, we provide a smooth video acceleration experience for users all over the globe.

Built-in default domain, supporting media distribution based on either the default domain or a custom domain specified by the user.

We offer a comprehensive CDN usage statistical analysis service, along with support for CDN log downloads of domain access situations, bolstering business operations.

# Scenarios

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## TV Stations and OTT

**High-Resolution Video:** VOD on EO supports high-resolution transcoding such as 2K, 4K, and 8K, and also supports HDR quality transcoding, meeting the usage requirements of ultra-high-definition, high-quality content for large-screen devices such as OTT television.

**Intelligent Switching Between Multiple Resolutions:** With a single click, multiple streams are generated and automatically switched to audio and video playback at an appropriate bitrate, fulfilling the playback requirements of end devices in complex home network environments.

**Copyright Protection:** It supports various protection schemes such as Referer Hotlink Protection, Key Hotlink Protection, and Commercial Grade DRM, safeguarding media copyrights.

**Video on Demand to Live:** Based on the access control feature of VOD on EO, video on demand files can achieve a live streaming effect. TV stations and OTT can quickly and cost-effectively distribute video on demand files as live streaming, fully utilizing high-value recorded content to attract more traffic to the platform.

## UGSV

**High-Quality Client Upload:** VOD on EO achieves industry-leading upload quality (with a success rate of over 99.5%) through a series of technical measures such as scheduling optimization. The excellent upload experience encourages customers to share, enhancing the platform's reputation.

**Fast Video Creation and Sharing:** It provides an integrated client SDK with features such as collecting, editing, splicing, special effects, sharing, and playback. Developers can focus on the business itself, quickly and easily implementing short video applications based on mobile devices. Short video users can also swiftly connect production, processing, and distribution links, enabling rapid release of short videos.

**High Quality and Low Bitrate:** In diverse and complex short video scenarios, through intelligent dynamic technology and precise bitrate control models, high-definition, low-bitrate videos are achieved. This ensures smooth playback and clear picture quality for users, while also saving the platform a significant amount of storage and traffic costs.

**Compliance Control:** The content review feature of VOD on EO possesses intelligent recognition capabilities with high accuracy and recall rates. It can quickly and effectively detect non-compliant video segments, saving a significant amount of manual review. This is suitable for scenarios with a large volume of short videos and diverse content, building a safety barrier for the platform and reducing operational costs.