LVB Recording

Product Introduction

Product Documentation

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Product Introduction

Overview

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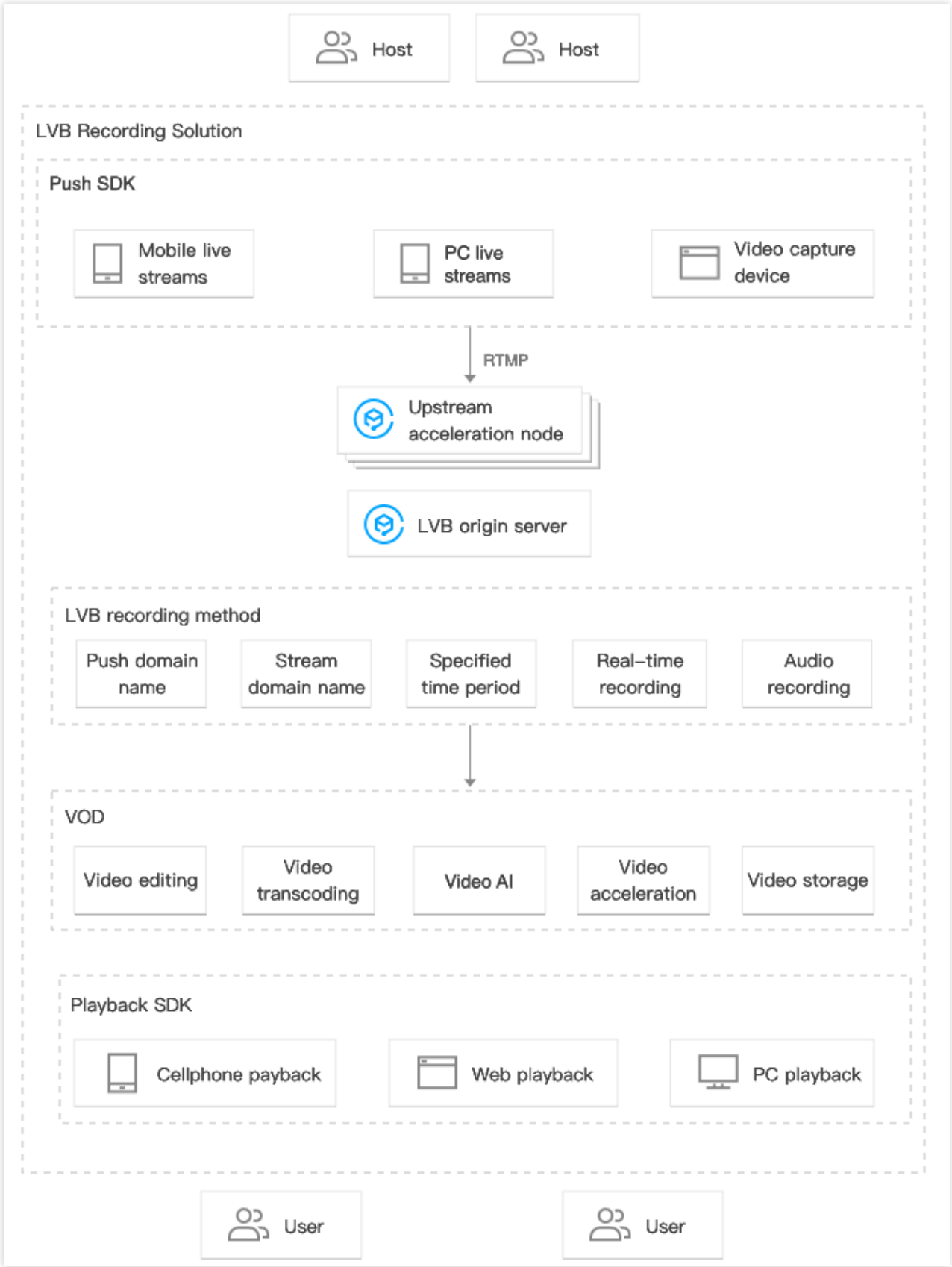
The LVB recording solution is a standardized service that stores the files generated by muxing original streams (without modifying such information as audio and video data and corresponding timestamps) on the VOD platform, where the recording files can be processed, distributed, and played back.

Architecture



Features

Based on the capabilities of LVB, it can quickly record and store live streaming content on the VOD platform for secondary production and distribution.
Relying on Tencent Cloud's leading AI technologies in audio and video and globally-deployed cache nodes, it provides top-notch audiovisual services such as professional and stable live push, transcoding, distribution, and playback that fully meet the requirements for ultra-low latency, ultra-high image quality, and ultra-high performance to sustain massive volumes of concurrent requests.
It can quickly distribute your live streaming events to various scenarios and applications.
It is suitable for many industry-specific scenarios such as corporate live streaming, ecommerce live streaming, and education live streaming. It can deliver video content through many channels such as Tencent Video.

Use Cases

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Education Live Streaming

Challenges

The expansion and globalization of companies have created an increasing demand for education about corporate culture and policies, remote communication, and training.
It is costly and inefficient for companies to provide in-person training due to their widespread presence.
Conventional video training aids are expensive and have demanding network requirements as they mostly rely on dedicated connections to ensure smooth video playback, leading to low efficiency and poor effect in training delivery.
Recording is costly to configure and hard to manage, and it's challenging to retain educational contents for future learning.

Solution

The LVB recording solution enables quick establishment of online training platforms and allows companies, government agencies, and organizations to record live streams and provide training anywhere, anytime by sending links to recording files to the target audience simultaneously through a variety of channels.

It has a rich set of features such as recording and archiving, content encryption and replay, and pseudo-live streaming, significantly improving the training effect.

Media Live Streaming

Challenges

Subject to fixed timing, media live streaming does not allow for repeated content distribution.
Media live streaming involves content compliance risks and thus entails content retention.

Solution

The LVB recording solution offers maximum protection through hotlink protection, URL authentication, and HTTPS acceleration. It offers professional and stable services such as live push, transcoding, distribution, and global playback.
Based on Tencent's 20 years of experience in secure video processing, it can process violating footage in seconds and supports reviewing live and VOD videos to ensure content compliance.
It offers features such as pseudo-live streaming to ensure the security and reliability of live streams and make it easy to distribute the content repeatedly.

Game/Sport Live Streaming

Challenges

The time when events will be live streamed may change, so viewers may not watch entire events conveniently.
Viewers want to watch events again after they end.
Live streams of events require highlight clipping, video replay, and splitting.

Solution

The LVB recording solution, which can be called either in the console or through APIs, allows for quick recording of live streams in a variety of ways, such as global recording and real-time recording.
Recordings of live streams in HLS format can be time-shifted, enabling viewers to watch events that are already over.
Video AI capabilities enable quick clipping, processing, and distribution of VOD files within the deadline, so that video content can be spread efficiently.

Ecommerce Live Streaming

Challenges

The live streams of product presentations need to be retained for users to watch as they want.
Users may want to watch previous live streams.

Solution

SDKs are provided for different platforms to help merchants quickly set up ecommerce live streaming.
The on-cloud recording feature enables merchants to quickly record the live streams of product presentations, and the time shifting feature allows users to watch previous live streams. After the live streaming is over, the generated video files can be transcoded and distributed with speed.

Basic Concepts

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Recording Template

When a live stream is recorded into VOD, VOD will use this template to transcode the video.

Recording Rule

You can bind the recording template to a rule at the specified level. Then, when the push starts, the bound rule will be executed for recording.

Recording Task

You can create a recording task with custom time settings to achieve flexible recording.

Automatic Splicing and Resuming

When a live stream is recorded in HLS format, you can enable the automatic splicing and resuming feature and enter the value of the resuming timeout period for stream interruption. Then, if the interruption duration does not exceed the timeout period, the live streams before and after the interruption will be automatically spliced into one recording file.

Note:

After the automatic splicing and resuming feature is enabled, the system will wait for the resuming timeout period to elapse before starting to generate a recording file, which will lead to a longer time for getting the recording file.

Automatic Transcoding

After the video is recorded into VOD, a transcoding task will be automatically triggered.

Manual Transcoding

After the video is recorded into VOD, you can trigger transcoding manually.

Adaptive Bitrate Streaming

You can simultaneously output multiple transcoded streams and select the optimal one for playback based on the quality of the network connection.

Strengths

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Convenient On-cloud Recording

The LVB recording solution provides a one-stop, reliable, and smooth LVB-to-VOD scheme, which can record and store live streams in the cloud with only simple configurations required.

Profound Technical Experience

The LVB recording solution offers highly available and concurrent cloud-based live streaming services. It supports multiple live streams, real-time monitoring and preview, and convenient management and control of live rooms. Together with the video processing and acceleration capabilities of VOD, it can create an efficient and easy-to-use integrated scheme for live recording.

Cross-platform Compatibility

By leveraging on-cloud processing capabilities, the LVB recording solution is available in a closed LVB-to-VOD loop on various platforms such as iOS, Android, web, and HTML5. It supports video distribution through Tencent Video, making it easier for you to promote your content.

Diverse Use Cases

The LVB recording solution interconnects the core capabilities of LVB and VOD, making it suitable in different use cases such as sport event streaming and clipping, education streaming and distribution, and video moderation and playback.