

MediaLive

Product Introduction

Product Documentation



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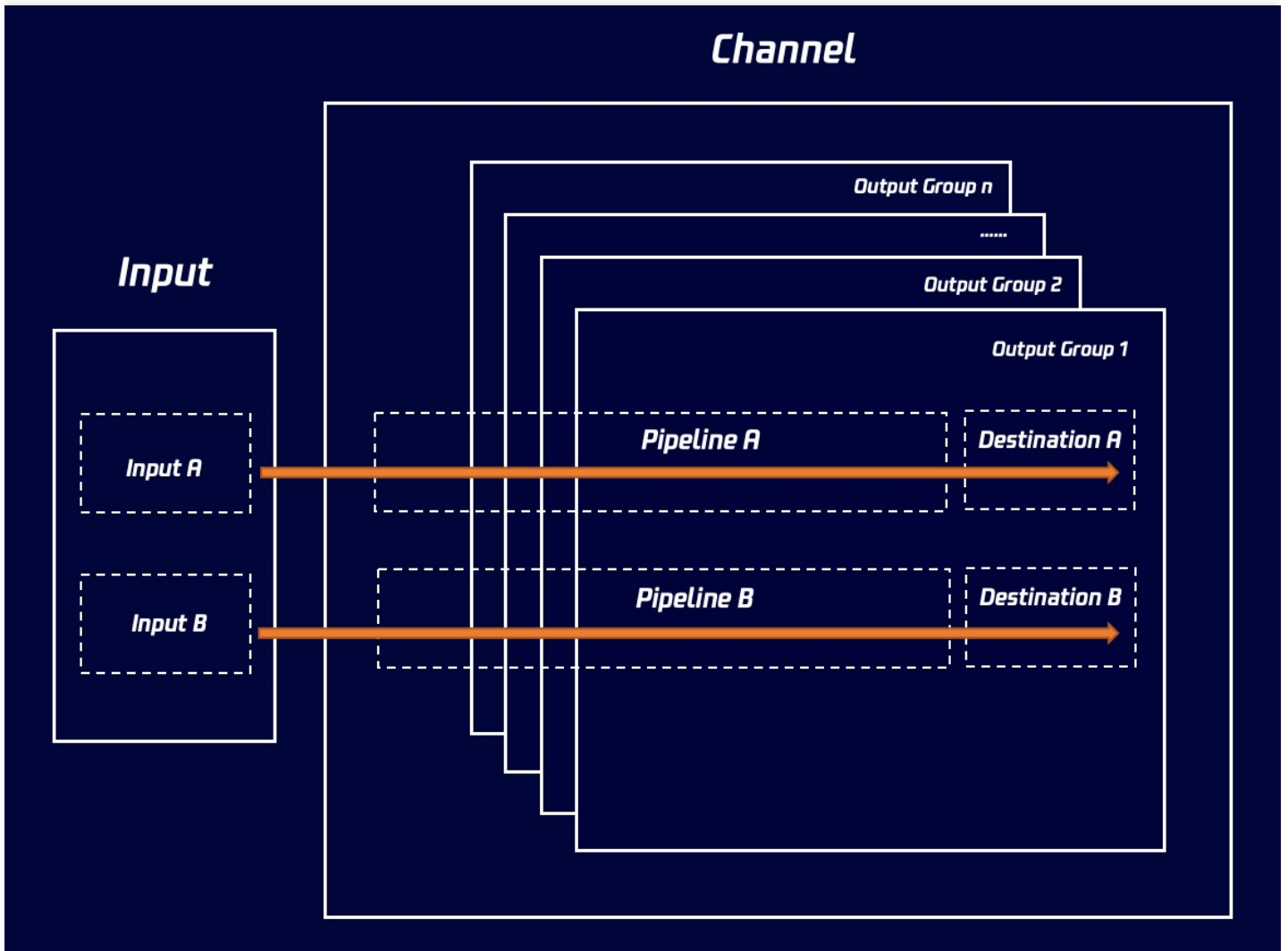
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Overview

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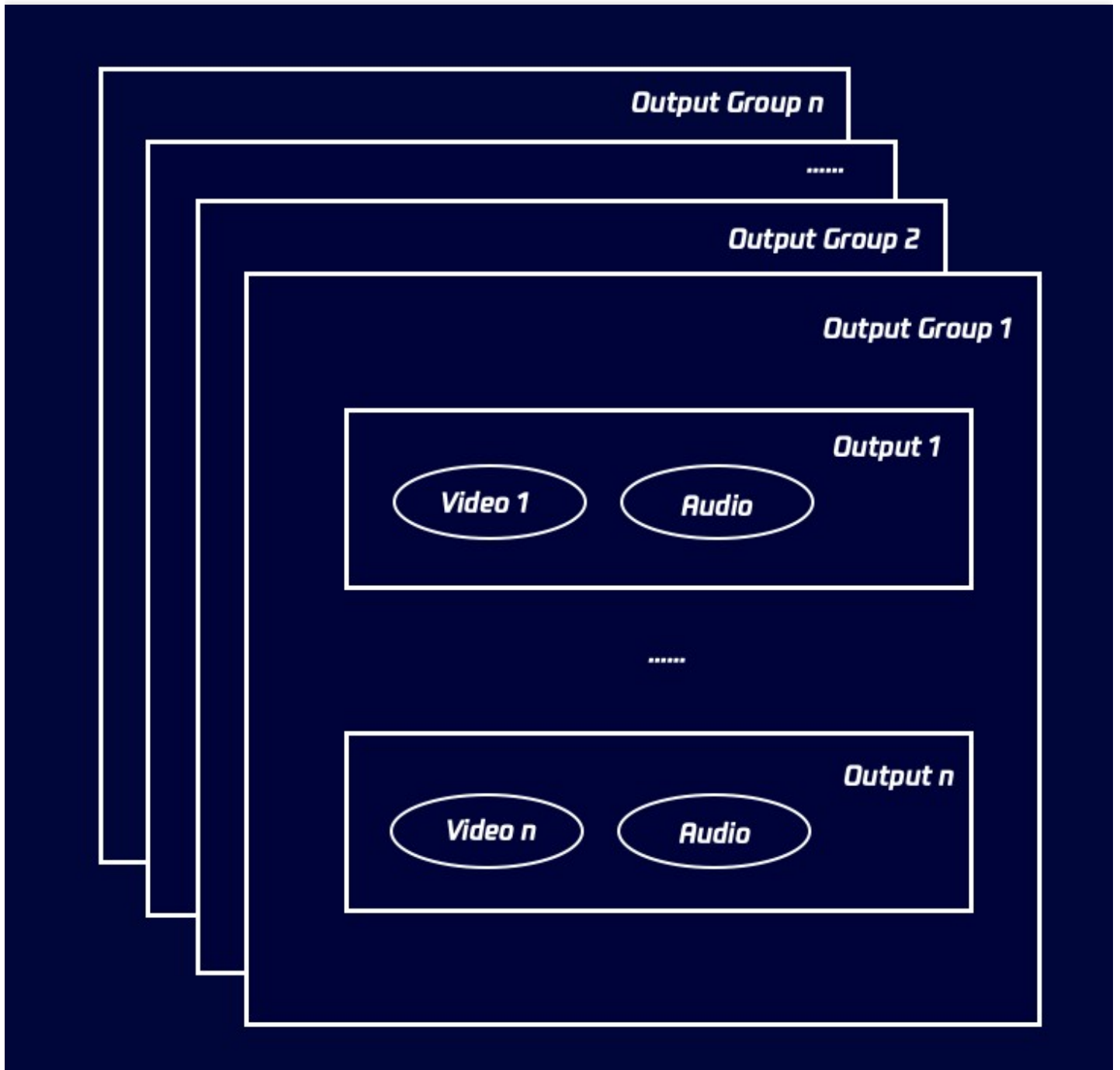
Tencent Cloud MediaLive (MDL) is a dedicated platform that provides ultra-fast, stable, and high-quality live streaming media processing services for global users. Leveraging the compute resources in Tencent Cloud's abundant AZs deployed around the globe and proprietary well-established audiovisual platforms and world-leading AI technologies in audio and video, MediaLive unveils the core capabilities of Tencent Cloud live streaming to provide developers with professional, stable, and efficient basic services such as live stream transcoding, remuxing, and transfer, as well as value-added services such as DRM and SCTE-35 ad solutions. It uses Tencent Cloud's unique high-performance video encoding and compression algorithms, and tries to save the transmission traffic while ensuring a better viewing experience. At the same time, it also guarantees 24/7 availability.

Mapping Relationship of MediaLive Input Streams



Each MediaLive channel supports setting two pipelines (e.g. pipeline A and B) when configuring the input. Pipeline A (required) and Pipeline B (optional) run independently. That is, the stream from input A will be output to the destination A of each output group, and the stream from input B will be output to the destination B of each output group. (When the output type is MediaPackage, Pipeline A and Pipeline B will be input to the MediaPackage channel as two streams.)

The relationship diagram between the output group and output is as follows:



Each output group, which can contain multiple outputs, determines an output protocol or type. Each output can select video streams with different resolutions and bitrates to combine and output a live stream with adaptive bitrates.

Features

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Product Features

This document describes the product features of MediaLive.

Multi-Protocol and multi-method stream input

MediaLive supports multiple streaming protocols such as RTP, RTMP, UDP, HLS, and HTTP-MP4. It provides both pull and push input methods. When RTP-MPEGTS is used, MediaLive allows inputting the video stream with multiple audio tracks and can transcode each track separately.

Authentication with security group

MediaLive provides protection policies for input streams at the CIDR security group level. A security group can verify the input's IPv4 address and enhance the security of MediaLive channels.

Diversified transcoding

MediaLive supports transcoding at different resolutions (SD, HD, UHD, 2K, 4K, etc.), bitrates, and frame rates. It also provides high-performing top speed codec transcoding. After this feature is enabled, AI algorithms can calculate the optimal dynamic encoding parameters in real time based on business scenarios, and implement low-bitrate as well as high-quality transcoding services.

Remuxing in multiple formats

MediaLive supports various output muxing types, such as adaptive bitrate HLS, DASH, and HLS archive.

DRM

MediaLive features a professional digital rights management (DRM) solution to comprehensively protect the security of your video assets. Currently, it supports the FairPlay and Widevine encryption schemes to satisfy most needs in digital copyrights protection.

Flexible configuration for independent channels and diverse output combinations

MediaLive provides services based on channel management, where the same channel can be configured with different inputs and outputs. You can associate an output with existing audio and video transcoding templates, configuring flexible output combinations to implement adaptive bitrate video delivery.

Stream quality monitoring

MediaLive offers detailed health reports on the running status of each channel and displays various types of alerts, making it easy for you to monitor the stream quality in real time.

Live stream archiving

MediaLive supports exporting HLS files to COS for archiving. After configuring the output type, you can output the specified live stream to COS for archiving.

Easy Integration with Tencent Cloud Services

MediaLive supports outputting live stream to specified destination and can also integrate with Tencent Cloud services (MediaPackage, MediaConnect, LVB CDN, etc.) to implement broadcast-grade one-stop media services at large-scales.