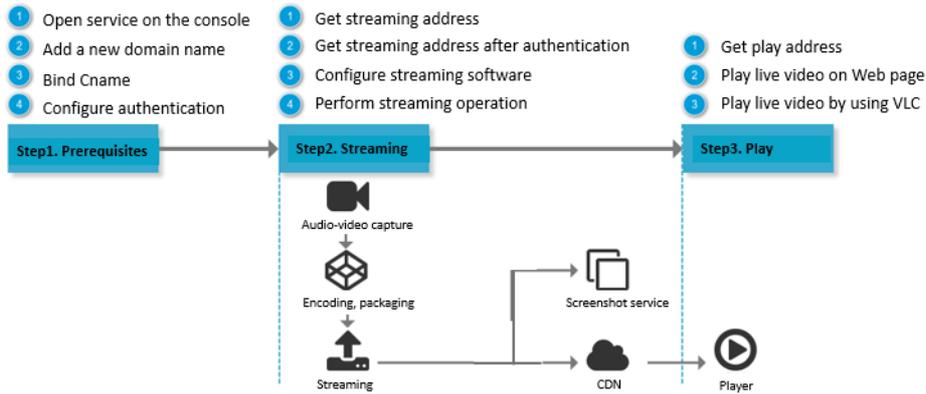


# ApsaraVideo Live

## Quick Start

# Quick Start

## Live activity procedure



## Step 1. Preparations

### Prerequisites

Your domain name has completed the website record-filing.

Alibaba Cloud provides live service.

Note: If you select the **Singapore** region, the website record-filing operation is unnecessary.

Streaming and playing tools

To begin a live activity, you need streaming tools to upload the live video, and playing tools to pull the live video.

### Procedure

Log on to the ApsaraVideo Live console.

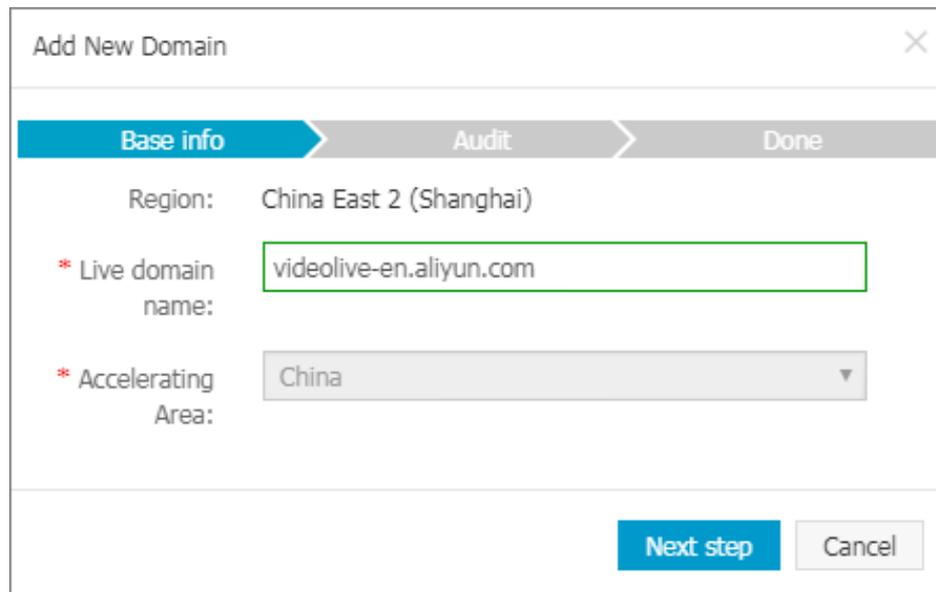
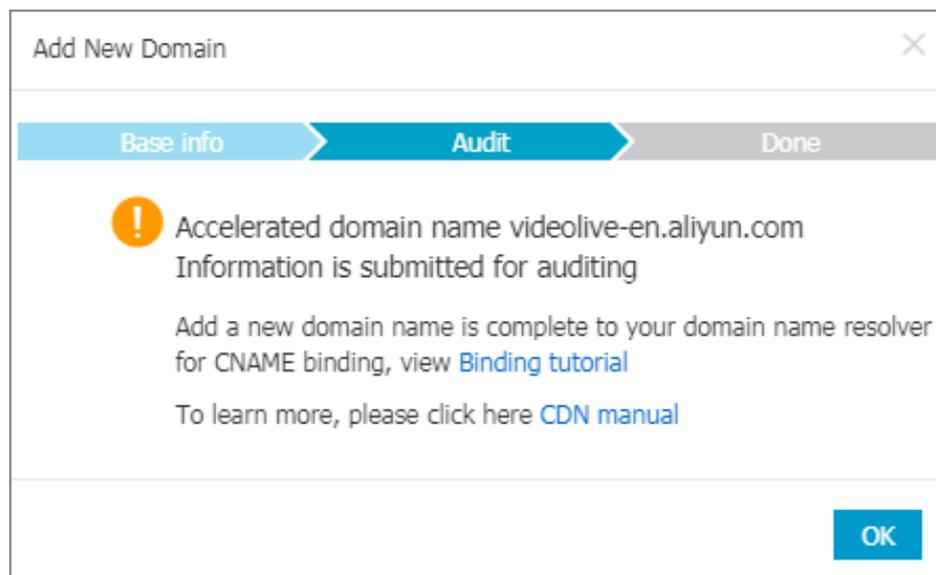
The console checks the activation status of services on which the product is dependent. Follow the instructions on the page for operations.

Add a live video domain name.

Select the region, and click **Add New Domain**.



Enter the **Live domain name**, and click **Next step**.

A screenshot of a 'Add New Domain' dialog box. The dialog has a title bar with 'Add New Domain' and a close button. Below the title bar, there's a progress bar with three steps: 'Base info', 'Audit', and 'Done'. 'Base info' is the active step. The 'Region' is set to 'China East 2 (Shanghai)'. There are two required fields: '\* Live domain name' with the value 'videolive-en.aliyun.com' and '\* Accelerating Area' with the value 'China'. At the bottom right, there are two buttons: 'Next step' and 'Cancel'.A screenshot of a 'Add New Domain' dialog box. The dialog has a title bar with 'Add New Domain' and a close button. Below the title bar, there's a progress bar with three steps: 'Base info', 'Audit', and 'Done'. 'Audit' is the active step. A message with an orange exclamation mark icon says: 'Accelerated domain name videolive-en.aliyun.com Information is submitted for auditing'. Below the message, it says: 'Add a new domain name is complete to your domain name resolver for CNAME binding, view [Binding tutorial](#)'. At the bottom, it says: 'To learn more, please click here [CDN manual](#)'. At the bottom right, there is an 'OK' button.

The domain name for live video need to complete ICP record filing before it is

ready for use. For more information, see [website record-filing](#).

When configured successfully, the domain name automatically completes the configuration of CDN live acceleration. The live acceleration is ready for use after the domain name completes the CNAME binding.

### Bind CNAME.

Modify the DNS and CNAME record of the added live video domain name to the CNAME address displayed on the live video **Domains** page. Then, bind the streaming address provided by Alibaba Cloud with the live video domain name, so that the stream is pushed to the live video center when pushed to the live video domain name. Follow these steps for CNAME binding.

#### - Live video domain name applied for at [www.net.cn](http://www.net.cn)

Get the CNAME corresponding to the live video domain name of the Apsaravideo Live console.

Current Billing Type: Bandwidth

Domains Singapore China North 2 (Beijing) China East 2 (Shanghai) Refresh Add New Domain

Domain Name	CNAME	Creation Time	Status	Actions
document4.aliyun.com	document4.aliyun.com.w.kunlunpi.com	2017-09-14 09:54:46	Normal	<a href="#">Detail</a> <a href="#">Disable</a> <a href="#">Delete</a>
cc.aliyun.com	cc.aliyun.com.w.alkunlun.net	2017-10-28 15:39:09	Normal	<a href="#">Detail</a> <a href="#">Disable</a> <a href="#">Delete</a>
videolive.aliyun.com	videolive.aliyun.com.w.alkunlun.net	2017-11-09 11:20:40	Normal	<a href="#">Detail</a> <a href="#">Disable</a> <a href="#">Delete</a>
videolive-en.aliyun.com	videolive-en.aliyun.com.w.alkunlun.net	2017-11-13 17:52:07	Normal	<a href="#">Detail</a> <a href="#">Disable</a> <a href="#">Delete</a>

Log on to the Domain console and, on the **Domain Name List** page, select the domain name, and click **Resolve**.

Domain | Domain Name List | [Go to Alibaba Cloud DNS product list >>](#) Buy Domain

Domain Names All To Be Renewed To Be Redeemed Export Search Results Export Domain List

Registrant Profiles

Domain Transfer...

Change Log

Domain Name	Domain Name Type	Status	Date of Registration (UTC)	Expiration Date (UTC)	Action
<a href="#">51ll.com</a>	gTLD	Normal	Jul 19, 2017 09:34:15	Jul 19, 2018 09:34:15	<a href="#">Renew</a> <a href="#">Resolve</a> <a href="#">Manage</a>

If your live video domain name is not applied for at [www.net.cn](http://www.net.cn), you can first transfer your domain name to [www.net.cn](http://www.net.cn) and then perform the CNAME binding following steps.

Click **Add Record**.

DNS Settings 51ili.com								
DNS Server: vip7.alidns.com, vip8.alidns.com								
Search for record.							<a href="#">Add Record</a>	
<input type="checkbox"/>	Type	Host	Line(ISP)	Value	MX Priority	TTL	Status	Actions
<input type="checkbox"/>	A	www	Default	114.55.48.61	--	2 minute(s)	--	<a href="#">Edit</a> <a href="#">Disable</a> <a href="#">Delete</a> <a href="#">Remark</a>
<input type="checkbox"/>	CNAME	videolive	Default	videolive.aliyun.com.w.alikunlun.net	--	10 minute(s)	--	<a href="#">Edit</a> <a href="#">Disable</a> <a href="#">Delete</a> <a href="#">Remark</a>
<input type="checkbox"/>	A	gfdg	China Unicom	11.11.11.11	--	10 minute(s)	--	<a href="#">Edit</a> <a href="#">Disable</a> <a href="#">Delete</a> <a href="#">Remark</a>
<input type="checkbox"/>	CNAME	@	Default	ew-2htx8XXX.aliapp.com	--	10 minute(s)	--	<a href="#">Edit</a> <a href="#">Disable</a> <a href="#">Delete</a> <a href="#">Remark</a>
<input type="checkbox"/>	CNAME	document4	Default	document4.aliyun.com.w.kunlunpi.com	--	10 minute(s)	--	<a href="#">Edit</a> <a href="#">Disable</a> <a href="#">Delete</a> <a href="#">Remark</a>
<input type="checkbox"/>	A	www	Default	120.55.21.95	--	30 minute(s)	--	<a href="#">Edit</a> <a href="#">Disable</a> <a href="#">Delete</a> <a href="#">Remark</a>

Click **Add Record**.

DNS Settings 51ili.com							
DNS Server: dns11.hichina.com, dns12.hichina.com							
							<a href="#">Add Record</a>
Type	Host	ISP Line	Value	MX Priority	TTL	Status	Actions
A	www	Default	120.55.21.95	--	30 minute(s)	--	<a href="#">Edit</a> <a href="#">Disable</a> <a href="#">Delete</a>
CNAME	document3	Default	document3.aliyun.com.w.alikunlun.net	--	30 minute(s)	--	<a href="#">Edit</a> <a href="#">Disable</a> <a href="#">Delete</a>

Enter the resolution parameters and click **Confirm**.

**Add Record** ✕

**Type:**

**Host:**  .51ili.com ?

**ISP Line:**  ?

**Value:**

**TTL:**

[Confirm](#) [Cancel](#)

Select **CNAME** in **Type**.

Enter the secondary domain name of the streaming address in **Host**. For example, if the streaming address is videolive-en.aliyun.com, then the secondary domain name is videolive-en.

Enter the CNAME content into **Value** in the domain name list.

After the resolution parameters are set, CNAME domain name resolution takes effect quickly.

If it is a newly created domain name, the resolution does not involve DNS refreshing.

Different data is cached on different DNSs, and if the CNAME is changed, it may take up to 48 hours to complete the updates.

### Live video domain name applied for in other ways

If the domain name is applied for in other ways, you must perform CNAME binding at the website at which the domain name is added.

Perform a domain name transfer on the Alibaba Cloud console.

Configure authentication.

**Note:** The authentication function is enabled by default for the newly created domain name since January 1, 2018. You can adopt the authentication by default, or customize it on the Apsaravideo Live console.

Authentication by default.

The authentication function is in the **Opened** state by default. The **Main KEY** is abcd1234 , and the **Expire time** is 1800s. The authentication expires if the time exceeds 1800s.

Log on to the ApsaraVideo Live console.

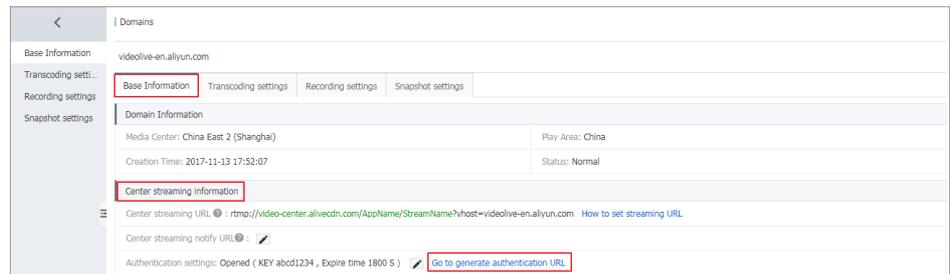
Click **Domains** in the left-side navigation pane.

Select the region.

Select the domain name, and click **Detail** at the right side.

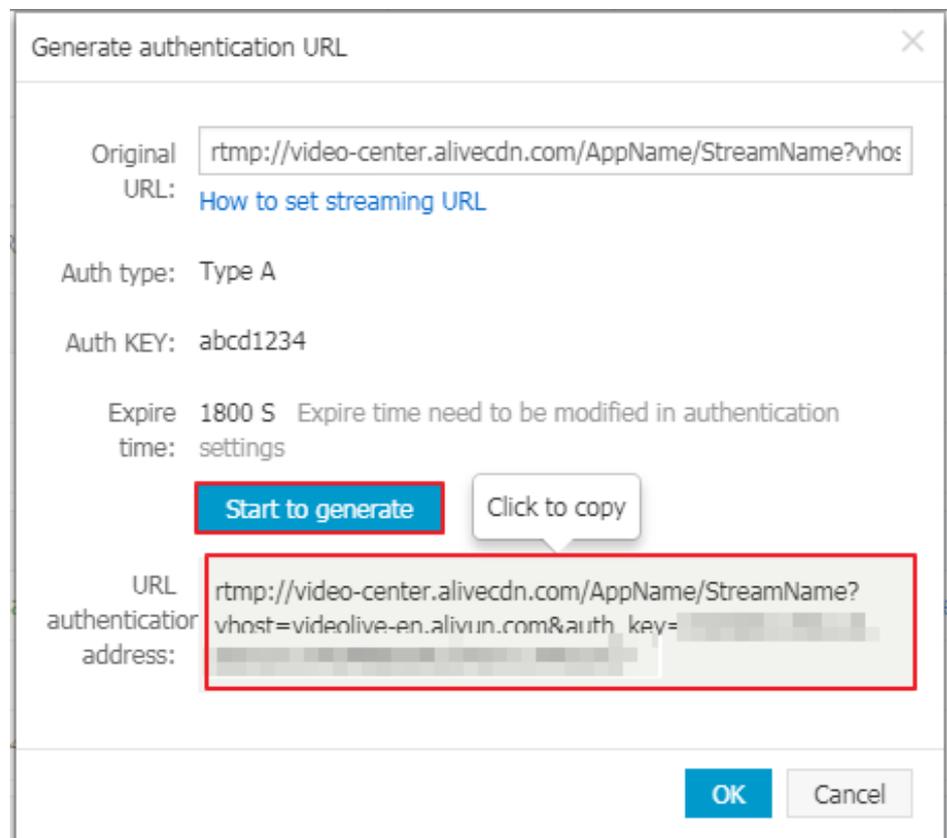
Domain Name	CNAME	Creation Time	Status	Actions
videolive-en.aliyun.com	videolive-en.aliyun.com.walkunlun.net	2017-11-13 17:52:07	Normal	Detail   Disable   Delete
videolive.aliyun.com	videolive.aliyun.com.walkunlun.net	2017-11-09 11:20:40	Normal	Detail   Disable   Delete
cc.aliyun.com	cc.aliyun.com.walkunlun.net	2017-10-28 15:39:09	Normal	Detail   Disable   Delete

In **Base Information** > **Center streaming information**, click **Go** to generate authentication URL at the right side of **Authentication settings**.



In the **Generate authentication URL** page, click **Start** to generate.

Click to copy the generated **URL authentication address**.



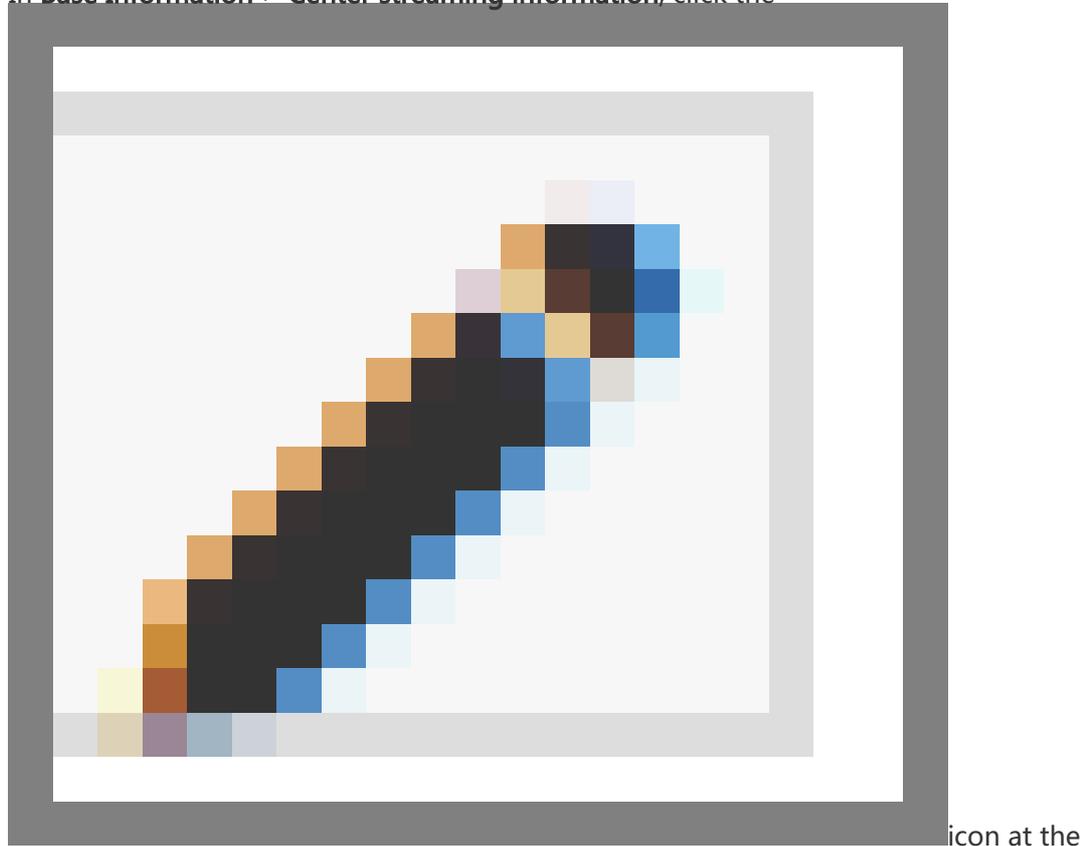
Click **OK**.

The generated **Authentication URL** `rtmp://video-center.alivecdn.com/AppName/StreamName?vhost=videolive-en.aliyun.com&auth_key=*****` can be used for streaming and playback.

### Customize authentication

If you don't adopt the configuration by default, you can also customize **Main KEY**, **Standby KEY**, **Expire time**, **AppName** and **StreamName**, and then generate **Authentication URL** for streaming and playback.

In **Base Information** > **Center streaming information**, click the



In the **Authentication settings** page, customize the **Main KEY**, **Standby KEY**, and **Expire time** and click OK.

Authentication settings
✕

- Address of Center push-flow and broadcasting share a set of Live authentication keys.
- After opening Live authentication, you need to use the URL pushing or playing.

Authentication

State:

Auth type: Type A

\*Main KEY:   
6~32 characters, supporting upper case, lower case and numbers

Standby KEY:   
6~32 characters, supporting upper case, lower case and numbers

Expire time:  S

**Note:**

- Main KEY** is a key for calculating encrypted string. If the **Main KEY** is changed, all addresses using the **Main KEY** instantly becomes invalid. If the **Standby KEY** is changed to the **Main KEY**, the streaming or playback address using the **Main KEY** does not become invalid instantly, but uses the **Standby KEY** as a mechanism for performing the switch.

Click **Go to generate authentication URL** at the right side of **Authentication settings** to set the **AppName** and **StreamName** on the **Generate authentication URL** page.

**Original URL** : `rtmp://video-center.alivecdn.com/AppName/StreamName?vhost=videolive-en.aliyun.com`, wherein,

The `video-center.alivecdn.com` is a server of the live video center and can be customized. For example, if your domain name

isvideolive-en.aliyun.com(Note: This domain name cannot be the same with your CDN domain name), you can set the DNS and point your domain name CNAME to video-center.alivecdn.com.

AppName is the app name. This parameter can be customized.

StreamName is the stream name. This parameter can be customized.

The host parameter specifies a domain name for eventual playback on an edge node, namely your live video CDN domain name.

## Step 2. Streaming

The live video streaming operation can use third-party streaming software.

## Step 3. Playing

### Preview directly at the backstage of the Web page

Use OBS for streaming by using the authenticated URL, and then log on to the ApsaraVideo Live console > **Streams**.

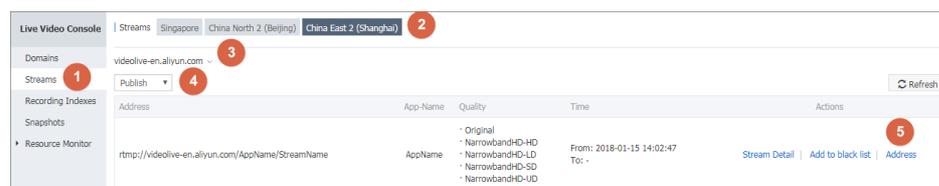
Select the region.

Select the domain name.

Select the stream status.

Select the streaming address, and click **Address** at the right side.

You can then check playback address and preview play.



Address ✕

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ⓘ Playing video will cause t

`http://videolive-en.aliyun.com/AppName/StreamName_ud.flv?auth_key=1510652806-0-0-3d820b48ab79fc8df35b9ac1397b0ebc`

NarrowbandHD-UD

RTMP Format: `rtmp://videolive-en.aliyun.com/AppName/StreamName_...`

FLV Format: `http://videolive-en.aliyun.com/AppName/StreamName_...`

Copy Play

---

NarrowbandHD-HD

RTMP Format: `rtmp://videolive-en.aliyun.com/AppName/StreamName_...`

FLV Format: `http://videolive-en.aliyun.com/AppName/StreamName_...`

---

NarrowbandHD-SD

RTMP Format: `rtmp://videolive-en.aliyun.com/AppName/StreamName_...`

FLV Format: `http://videolive-en.aliyun.com/AppName/StreamName_...`

---

NarrowbandHD-LD

RTMP Format: `rtmp://videolive-en.aliyun.com/AppName/StreamName_...`

FLV Format: `http://videolive-en.aliyun.com/AppName/StreamName_...`

---

Original

RTMP Format: `rtmp://videolive-en.aliyun.com/AppName/StreamName?...`

FLV Format: `http://videolive-en.aliyun.com/AppName/StreamName....`

M3U8 Format: `http://videolive-en.aliyun.com/AppName/StreamName....`

---

OK

### Preview with VLC

Download VLC. No additional configuration is required after the default installation. Click **Media > Open Network Stream**, enter the playback address, and click **Play**.

A live video activity requires a live streaming address. Alibaba Cloud ApsaraVideo Live supports trigger-by-activity creation. On the basis of the activity creation rules, you can create multiple live interactive activities without APIs.

## Structure of live video address

The live video service address has three levels of live video management units, namely the domain name (Domain), an application (APPName) and a live stream (StreamName). You can create multiple applications (APPName) under each domain name (Domain), and multiple live streams (StreamName) under each application.

AppName and StreamName can be edited and customized. Different values are used to generate various types of streaming and playback addresses.

For example, if an application is named live, you can create multiple live streams under live. The stream pushing address is:

```
rtmp://video-center.alivecdn.com/{live}/{3}?vhost={live video domain name}
rtmp://video-center.alivecdn.com/{live}/{1}?vhost={live video domain name}
rtmp://video-center.alivecdn.com/{live}/{2}?vhost={live video domain name}
```

You can also create multiple live streams for the application.

```
rtmp://video-center.alivecdn.com/{live1}/{Stream}?vhost={live video domain name}
rtmp://video-center.alivecdn.com/{live2}/{Stream}?vhost={live video domain name}
rtmp://video-center.alivecdn.com/{live3}/{Stream}?vhost={live video domain name}
```

## Structure of a playback address

The rules for both live video playback addresses and stream pushing addresses are similar. AppName and StreamName of the playback addresses correspond to the AppName and StreamName the stream pushing addresses.

### Examples

The stream pushing address is:

```
rtmp://video-center.alivecdn.com/{live}/{3}?vhost={live video domain name}
```

The corresponding playback addresses are:

```
http:// play.aliyunlive.com/{live}/{3}
http:// play.aliyunlive.com/{live}/{3}.flv
http:// play.aliyunlive.com/{live}/{3}.m3u8
```

## How to obtain an address after transcoding

The live playback address is spliced into different parameters. The playback address after transcoding

is formed by the original stream address and template IDs. The address format is playback domain name+AppName+StreamName+\_ "+transcoding template name.

Template name	LD	SD	HD	UHD
Standard quality	LLD	LSD	LHD	LUD
High quality (narrowband HD transcoding template)	LD	SD	HD	UD

## Examples

The SD transcoding template name is **sd** and the splicing rules of the live playback address are as follows:

**RTMP format:** `rtmp:// live.aliyun.com/{AppName}/{StreamName} _sd`  
**FLV format:** `http:// live.aliyun.com/{AppName}/{StreamName} _sd.flv`

You can create multiple stream pushing addresses according to the rules and the live activities can be performed simultaneously. When performing multiple live broadcast activities, note that each domain processes a limited number of concurrent streams. A maximum of 20 concurrent streams and 10 transcoding streams are allowed for each domain. Therefore, before performing multiple live broadcast activities, you must check whether the current stream limitation meets your requirements. If it does not meet your requirements, you can [Open a ticket](#) and contact Alibaba Cloud technical support.