

Alibaba Cloud

ApsaraVideo for Media Processing API Reference

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Document conventions

Style	Description	Example
 Danger	A danger notice indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 Danger: Resetting will result in the loss of user configuration data.
 Warning	A warning notice indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 Warning: Restarting will cause business interruption. About 10 minutes are required to restart an instance.
 Notice	A caution notice indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: If the weight is set to 0, the server no longer receives new requests.
 Note	A note indicates supplemental instructions, best practices, tips, and other content.	 Note: You can use Ctrl + A to select all files.
>	Closing angle brackets are used to indicate a multi-level menu cascade.	Click Settings> Network> Set network type .
Bold	Bold formatting is used for buttons, menus, page names, and other UI elements.	Click OK .
Courier font	Courier font is used for commands	Run the <code>cd /d C:/window</code> command to enter the Windows system folder.
<i>Italic</i>	Italic formatting is used for parameters and variables.	<code>bae log list --instanceid</code> <i>Instance_ID</i>
[] or [a b]	This format is used for an optional value, where only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	This format is used for a required value, where only one item can be selected.	<code>switch {active stand}</code>

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1. List of operations by function

Media information analysis

Operation	Description
SubmitMediaInfoJob	Submits a media information analysis job.
QueryMediaInfoJobList	Queries the results of media information analysis jobs.

Intelligent preset template recommendation

Operation	Description
SubmitAnalysisJob	Submits a preset template analysis job.
QueryAnalysisJobList	Queries the results of preset template analysis jobs.

Transcoding job management

Operation	Description
SubmitJobs	Submits a transcoding job.
CancelJob	Cancels a transcoding job.
QueryJobList	Queries multiple transcoding jobs at a time based on transcoding job IDs.
ListJob	Queries transcoding jobs by job status, creation time range, or MPS queue.

Custom transcoding template management

Operation	Description
UpdateTemplate	Updates the settings of a custom transcoding template.
QueryTemplateList	Queries custom transcoding templates.
SearchTemplate	Searches for custom transcoding templates in the specified state.
DeleteTemplate	Deletes a custom transcoding template.

MPS queue management

Operation	Description
UpdatePipeline	Updates the settings of an MPS queue.
QueryPipelineList	Queries MPS queues.
SearchPipeline	Searches for MPS queues in the specified state.

Watermark template management

Operation	Description
AddWaterMarkTemplate	Creates a watermark template.
UpdateWaterMarkTemplate	Updates the name and settings of a specified watermark template.
QueryWaterMarkTemplateList	Queries watermark templates.
SearchWaterMarkTemplate	Searches for watermark templates in the specified state.
DeleteWaterMarkTemplate	Deletes a watermark template.

Video snapshot job management

Operation	Description
SubmitSnapshotJob	Submits a video snapshot job. JPG images are to be generated.
QuerySnapshotJobList	Queries the results of video snapshot jobs.

Media workflow management

Operation	Description
AddMediaWorkflow	Creates a media workflow.
ActivateMediaWorkflow	Activates a media workflow.
DeactivateMediaWorkflow	Deactivates a media workflow.
DeleteMediaWorkflow	Deletes a media workflow.
UpdateMediaWorkflow	Updates the topology of a media workflow.
QueryMediaWorkflowList	Queries registered media workflows.
SearchMediaWorkflow	Searches for media workflows.
UpdateMediaWorkflowTriggerMode	Updates the trigger mode of a media workflow.

Media workflow execution instance management

Operation	Description
QueryMediaWorkflowExecutionList	Queries media workflow execution instances.
ListMediaWorkflowExecutions	Queries all execution instances of a media workflow.

Media management

Operation	Description
AddMedia	Adds a media file to ApsaraVideo Media Processing (MPS).
DeleteMedia	Deletes a media file from MPS.
UpdateMedia	Updates basic information about a media file, such as the title, description, and category.
UpdateMediaCategory	Updates the category of a media file.
UpdateMediaCover	Updates the thumbnail of a media file.
AddMediaTag	Adds a tag for a media file.
DeleteMediaTag	Removes a tag from a media file.
UpdateMediaPublishState	Updates the publishing status of a media file.
QueryMediaList	Queries media files based on media file IDs.
QueryMediaListByURL	Queries media files based on the OSS URLs of media files.

Media bucket management

Operation	Description
BindInputBucket	Binds an input media bucket to the media library.
BindOutputBucket	Binds an output media bucket to the media library.
ListAllMediaBucket	Queries all media buckets bound to the media library.

2.Terms

Term	Full name	Description
OSS	Object Storage Service	ApsaraVideo for Media Processing transcodes a media file stored in OSS and stores the output file in the specified OSS bucket.
Bucket	OSS bucket	A bucket is a container for objects stored in OSS. The bucket name can only contain lowercase letters, digits, and hyphens (-). It must be 3 to 255 bytes in length and start with a lowercase letter or digit. For more information, see the definition of an OSS bucket.
Region	OSS region	A region represents the physical location of an OSS data center. For more information, see the definition of an OSS region.
Object	OSS object	Objects, also known as files, are the fundamental entities stored in OSS. The object name is a UTF-8 encoded string of 1 to 1,023 bytes in length. It must not start with a forward slash (/) or a backslash (\). For more information, see the definition of an OSS object.
Local file	Local file	A local file is a media file that has not been uploaded to OSS.
Input	Job input	The job input includes the input file and other configuration parameters.
Input file	Input file	An input file is a media file that has been uploaded to OSS.
Output	Job output	The job output includes a set of parameters, such as the template ID, watermark list, and output file parameters.
Output file	Output file	An output file is stored in OSS and uniquely identified by the region, bucket, and object.

Term	Full name	Description
Output bucket	Output bucket	The output bucket stores the transcoding output. You must specify the output bucket when you submit a transcoding job in the OSS object transcoding process, and grant the write permission to ApsaraVideo for Media Processing over the bucket authorization channel on the resource management page of the ApsaraVideo for Media Processing console.
Output region	Output region	The output region is the physical location where the data center of the output bucket is located. You can specify the output region when you submit a transcoding job in the OSS object transcoding process.
Template	Transcoding template	A custom template contains a set of transcoding parameters, such as the audio, video, and container parameters. Each custom template is identified by a unique ID.
Preset template	Preset transcoding template	An preset template is a built-in intelligent transcoding template of ApsaraVideo for Media Processing. The template can dynamically adjust transcoding settings based on the features of the input file to provide you with the optimal output under certain bandwidth conditions. Whether a preset template is applicable to an input file depends on the resolution, bitrate, and other properties of the input file. Before you use a preset template for an input file, you must call the SubmitAnalysisJob operation to trigger template analysis and call the QueryAnalysisJobList operation to obtain a list of preset templates applicable to the input file. For more information about the preset templates available to ApsaraVideo for Media Processing, see the appendix.

Term	Full name	Description
Watermark template	Watermark template	The properties of a watermark include a variable indicating the watermark content and a set of virtually unchanged parameters, such as the watermark position, offset, and size parameters. These virtually unchanged parameters constitute a watermark template with a unique ID.
Job	Transcoding job	A transcoding job consists of an input and an output. The job is added to a pipeline and waits to be scheduled by the scheduling engine to the transcoding system.
Analysis job	Analysis job	A preset template analysis job consists of an input file and analysis settings. It is run to obtain applicable preset templates.
Snapshot job	Snapshot job	A snapshot job consists of an input file and snapshot settings. It is run to obtain snapshots of the input file based on snapshot settings.
Media information analysis job	Media information analysis job	A media information analysis job is run to obtain the media information of an input file.
Pipeline	Job pipeline	A transcoding job must be added to a pipeline so that ApsaraVideo for Media Processing can schedule the job to the transcoding system. When a pipeline contains too many jobs, the jobs are queued up. A pipeline can be in active or suspended state. If a pipeline is suspended, ApsaraVideo for Media Processing will not schedule transcoding jobs in this pipeline any more unless it is activated again. However, ongoing transcoding jobs are not affected.
Media repository	Media repository	The media repository is the storage area of all media files.

Term	Full name	Description
Media	Media resource	The media resource is the minimum management unit of the media repository. A media resource contains an input (a multimedia file that uses a combination of video or audio contents) and all relevant outputs (such as the transcoded file and snapshots). Each media resource is uniquely specified by MediaId and has a one-to-one mapping with the corresponding input file.
Media workflow	Media workflow	A media workflow is a factory that processes media. A media workflow receives a multimedia file from the input media bucket, transcodes the file, and saves the transcoded file to the output media bucket. Each media workflow is uniquely identified by MediaWorkflowId.
Activity	Media workflow activity	Multiple media workflow activities constitute a media workflow. A media workflow is actually a directed acyclic graph (DAG). Each node in the DAG is called an activity, which may be transcoding, snapshot taking, or metadata acquisition. Each activity in a media workflow has a unique name.
Media workflow execution	Media workflow execution instance	An instance is generated for each execution of a media workflow. Each instance is uniquely identified by RunId.
Media bucket	Media bucket	The media repository is associated with multiple media buckets, and all media files are stored in media buckets. Media buckets include input and output media buckets. They are independent OSS buckets and do not overlap each other.

Term	Full name	Description
Input media bucket	Input media bucket	After a multimedia file is added to the input media bucket, the file is automatically added to the media repository. If the file matches the input conditions of a media workflow, the media workflow is automatically run.
Output media bucket	Output media bucket	The output media bucket stores the output files of a media workflow.

3.QPS limit

ApsaraVideo Media Processing (MPS) limits the queries per second (QPS) of API calls for each account. API calls are throttled if the limit is exceeded. This topic describes the QPS limit on each API operation in MPS. To prevent your service from being interrupted by throttling, we recommend that you keep your number of API calls per second under the QPS limit.

QPS limit on an API operation

The QPS limit on an API operation indicates the maximum number of times that an Alibaba Cloud account and the RAM users that belong to this account can call the API operation per second. For example, the QPS limit on the ActivateMediaWorkflow operation is 100 times per second. If you have an Alibaba Cloud account within which five RAM users are created and use the Alibaba Cloud account and the five RAM users to call the ActivateMediaWorkflow operation at the same time, the total number of calls per second cannot exceed 100.

Notice

- Not all API operations have QPS limits. The following tables describe the QPS limits on calling different API operations.
- Take note of the units in the following tables. The default unit is times per second. Other units, for example, times per minute, are expressly given if used.

Media information analysis

API operation	Maximum QPS per account
SubmitMediaInfoJob	50
QueryMediaInfoJobList	100

Intelligent preset template recommendation

API operation	Maximum QPS per account
SubmitAnalysisJob	100
QueryMediaInfoJobList	100

Transcoding job management

API operation	Maximum QPS per account
SubmitJobs	100
CancelJob	100
QueryJobList	100
ListJob	100

Custom transcoding template management

API operation	Maximum QPS per account
<code>AddTemplate</code>	100
<code>UpdateTemplate</code>	100
<code>QueryTemplateList</code>	100
<code>SearchTemplate</code>	100
<code>DeleteTemplate</code>	100

MPS queue management

API operation	Maximum QPS per account
<code>UpdatePipeline</code>	100
<code>QueryPipelineList</code>	100
<code>SearchPipeline</code>	100

Watermark template management

API operation	Maximum QPS per account
<code>AddWaterMarkTemplate</code>	100
<code>UpdateWaterMarkTemplate</code>	100
<code>QueryWaterMarkTemplateList</code>	100
<code>SearchWaterMarkTemplate</code>	100
<code>DeleteWaterMarkTemplate</code>	100

Snapshot job management

API operation	Maximum QPS per account
<code>SubmitSnapshotJob</code>	50
<code>QuerySnapshotJobList</code>	100

Media workflow management

API operation	Maximum QPS per account
<code>AddMediaWorkflow</code>	100

API operation	Maximum QPS per account
<code>ActivateMediaWorkflow</code>	100
<code>DeactivateMediaWorkflow</code>	100
<code>DeleteMediaWorkflow</code>	100
<code>UpdateMediaWorkflow</code>	100
<code>QueryMediaWorkflowList</code>	100
<code>SearchMediaWorkflow</code>	100
<code>UpdateMediaWorkflowTriggerMode</code>	100

Media workflow execution instance management

API operation	Maximum QPS per account
<code>ListMediaWorkflowExecutions</code>	100
<code>QueryMediaWorkflowExecutionList</code>	100

Media management

API operation	Maximum QPS per account
<code>AddMedia</code>	100
<code>DeleteMedia</code>	100
<code>UpdateMedia</code>	100
<code>UpdateMediaCategory</code>	100
<code>UpdateMediaCover</code>	100
<code>AddMediaTag</code>	100
<code>DeleteMediaTag</code>	100
<code>UpdateMediaPublishState</code>	100
<code>QueryMediaList</code>	100
<code>QueryMediaListByURL</code>	100

Media bucket management

API operation	Maximum QPS per account
BindInputBucket	100
BindOutputBucket	100
ListAllMediaBucket	10
UnbindInputBucket	100
UnbindOutputBucket	100

4. APIs invoke

4.1. Request syntax

Endpoints

For more information about the endpoint of the ApsaraVideo for Media Processing API, see [Regions](#).

Protocols

You can send requests over HTTP or HTTPS. We recommend that you send requests over HTTPS to enhance security.

Methods

You can send requests by using the HTTP GET method. With this method, you must specify request parameters in the request URL.

Parameters

For each request, you must specify the Action parameter indicating the operation to perform, common parameters, and operation-specific parameters.

Encoding

The request and response are both encoded in UTF-8.

4.2. Common parameters

Common request parameters

Common request parameters must be included in all ApsaraVideo for Media Processing API requests.

Parameter	Type	Required	Description
Format	String	No	The format in which to return the response. Valid values: JSON and XML. Default value: XML.
Version	String	Yes	The version number of the API. It is in the YYYY-MM-DD format. Set the value to 2014-06-18.
AccessKeyId	String	Yes	The AccessKey ID provided to you by Alibaba Cloud.

Parameter	Type	Required	Description
Signature	String	Yes	The signature string of the current request. For more information about how signatures are calculated, see Signature method .
SignatureMethod	String	Yes	The encryption method of the signature string. Set the value to HMAC-SHA1.
Timestamp	String	Yes	The timestamp of the request. Specify the time in the ISO 8601 standard and use UTC time. The time is in the YYYY-MM-DDThh:mm:ssZ format, for example, 2014-7-29T12:00:00Z (20:00:00, July 29, 2014, China Standard Time).
SignatureVersion	String	Yes	The version of the signature encryption algorithm. Set the value to 1.0.
SignatureNonce	String	Yes	A unique, random number used to prevent replay attacks. You must use different numbers for different requests.

Examples

```
http://mts.cn-hangzhou.aliyuncs.com/
? Format=json
&Version=2014-06-18
&Signature=vpEEL0zFHfxXYzSFV0n7%2FZiFL9o%3D
  &SignatureMethod=Hmac-SHA1
  &SignatureNonce=9166ab59-f445-4005-911d-664c1570df0f
&SignatureVersion=1.0
&Action=SubmitJobs
&AccessKeyId=test
&Timestamp=2014-07-29T09%3A22%3A32Z
```

Common response parameters

Every response returns a unique request ID regardless of whether the call is successful.

XML format

```
<? xml version="1.0" encoding="UTF-8"? >
  <!--Result root node-->
  <API operation name+Response> <!--Request ID-->
    <RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId>
    <!--Return result data-->
  </API operation name+Response>
```

JSON format

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216", /* Return result data */
}
```

4.3. Return result

After an API is called, data is returned in a unified format. The returned HTTP status code 2xx indicates that the call is successful. The returned HTTP status code 4xx or 5xx indicates that the call fails. For a successful call, the primary formats of returned data are XML and JSON. When a request is sent, an external system can input parameters to specify the format of the returned data. The default format is XML. In this document, examples of returned results are formatted for viewing convenience. The actual returned results have no line breaks, indentation, or other layouts.

Successful results

XML example

```
<? xml version="1.0" encoding="UTF-8" ? >
  <!--Result root node-->
  <API name+ Response>
    <!--Return request tag-->
    <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
    <!--Returned results-->
  </API name+Response>
```

JSON example

```
{
  "RequestId": "4C467B38-3910-447D-87BC-AC049166F216", /* Returned results */
}
```

Failure results

If an error is reported in an API call, no result data is returned. The caller can locate the cause of an error based on the error code corresponding to each API and [Error code list](#). When an error occurs in a call, an HTTP status code 4xx or 5xx is returned for the HTTP request. The returned message body contains the specific error code and error message. The message body also contains the globally unique request ID (RequestId) and the requested host ID (HostId). If unable to locate the error cause, the caller can provide Alibaba Cloud customer service with the HostId and RequestId, and we will help solve the problem as soon as possible.

XML example

```
<? xml version="1.0" encoding="UTF-8"? >
  <Error>
    <RequestId>8906582E-6722-409A-A6C4-0E7863B733A5</RequestId>
    <HostId>mts.cn-hangzhou.aliyuncs.com</HostId>
    <Code>UnsupportedOperation</Code>
    <Message>The specified action is not supported. </Message>
  </Error>
```

JSON example

```
{
  "RequestId": "8906582E-6722-409A-A6C4-0E7863B733A5",
  "HostId": "mts.cn-hangzhou.aliyuncs.com",
  "Code": "UnsupportedOperation",
  "Message": "The specified action is not supported."
}
```

4.4. Signature

Media Processing performs identity authentication on each access request. Therefore, both the HTTP and HTTPS request must contain signature information. MPS uses symmetric encryption with a pair of Access Key ID and Access Key Secret to authenticate the identity of a request sender. Access Key ID and Access Key Secret are officially issued by Alibaba Cloud to visitors (visitors can apply for and manage them at Alibaba Cloud's official website). The Access Key ID indicates the identity of the visitor. The Access Key Secret is the secret key used to encrypt and verify the signature string on the server. It must be kept confidential and should only be available to Alibaba Cloud and the user.

Follow these steps to sign the access request:

1. Construct the Canonicalized Query String using the request parameters.
 - i. The request parameters are ordered alphabetically by parameter name (this includes the "public request parameters" and custom parameters for the given request APIs described in this document, but not the Signature parameter mentioned in "public request parameters").

 **Note** For a request submitted using the GET method, these parameters constitute the parameter section of the request URI (that is, the section in the URI following `?` and connected by `&`).

- ii. Encode the name and value of each request parameter. URL encoding using the UTF-8 character set is required. URL encoding rules are as follows:
 - The letters (A-Z and a-z), the numerals (0-9), and the characters, hyphen `-`, underscore `_`, period `.`, and tilde `~` are not encoded.
 - Other characters are encoded into `%XY` format, where XY represents the characters' ASCII code in hexadecimal notation. For example, the double quotes (`"`) are encoded as `%22`.
 - Extended UTF-8 characters are encoded into the `%XY%ZA...` format.
 - Note that an English space () is encoded into `%20` rather than the plus sign (+).

Note Generally, libraries that support URL encoding (for example, `java.net.URLEncoder` of Java) are all encoded according to the rules for the `application/x-www-form-urlencoded` MIME-type. You can use this encoding method directly by replacing the plus sign (+) with `%20` and the asterisk (*) with `%2A` in the encoded string, and change `%7E` back to the tilde (~) to conform to the preceding encoding rules.

- iii. Connect the encoded parameter names and values with the equal sign (=).
 - iv. Then, sort the parameter name and value pairs connected by equal sign in alphabetical order, and connect them with `&` to produce the Canonicalized Query String.
2. The following example shows the pseudocode to create a canonical request.

```
StringToSign=
HTTPMethod + "&" +
percentEncode("/") + "&" +
percentEncode(CanonicalizedQueryString)
```

Here, HTTPMethod is the HTTP method used for request submission, for example, GET.

percentEncode(`" / "`) is the coded value for the character `/` according to the URL encoding rules described in 1.b, namely, `%2F`.

percentEncode(CanonicalQueryString) is the Canonicalized Query String (constructed in Step 1) that is encoded according to the URL encoding rules described in 1.b.

3. According to RFC2104 definitions, use the preceding signature string to calculate the signature's HMAC value.

Note The Key used for calculating the signature is the "Access Key Secret" held by the user, ending with the `&` character (ASCII:38) based on the SHA1 hashing.

4. Encode the HMAC value into a string based on Base64 encoding rules to obtain the signature.
5. Add the obtained signature value as the Signature parameter to the request parameters to complete the request signing process.

Note The obtained signature value requires URL encoding based on the RFC3986 rule like other parameters before it is submitted as the final request parameter value to the Media Transcoding server.

Using SearchTemplate as an example, the request URL before signing is:


```
http://mts.cn-hangzhou.aliyuncs.com/?Timestamp=2015-05-14T09%3A03%3A45Z&Format=XML&AccessKeyId=testId&Action=SearchTemplate&PageSize=2&SignatureMethod=HMAC-SHA1&SignatureNonce=4902260a-516a-4b6a-a455-45b653cf6150&SignatureVersion=1.0&Version=2014-06-18
```

herefore, the Canonicalized Query String is:

```
AccessKeyId=testId&Action=SearchTemplate&Format=XML&PageSize=2&SignatureMethod=HMAC-SHA1&SignatureNonce=4902260a-516a-4b6a-a455-45b653cf6150&SignatureVersion=1.0&Timestamp=2015-05-14T09%3A03%3A45Z&Version=2014-06-18
```

Thus, the StringToSign is:

```
GET&%2F&AccessKeyId%3DtestId%26Action%3DSearchTemplate%26Format%3DXML%26PageSize%3D2%26SignatureMethod%3DHMAC-SHA1%26SignatureNonce%3D4902260a-516a-4b6a-a455-45b653cf6150%26SignatureVersion%3D1.0%26Timestamp%3D2015-05-14T09%253A03%253A45Z%26Version%3D2014-06-18
```

Assume that the Access Key ID parameter value is `testId` and, the Access Key Secret parameter value is `testKeySecret`, then, the key used for HMAC calculation is `testKeySecret&` and the calculated signature value is:

```
kmDv4mWo806GWPjQMy2z4VhBBDQ%3D
```

The signed request URL is (with the Signature parameter added):

```
http://mts.cn-hangzhou.aliyuncs.com/?Signature=kmDv4mWo806GWPjQMy2z4VhBBDQ%3D&SignatureVersion=1.0&Action=SearchTemplate&Format=XML&SignatureNonce=4902260a-516a-4b6a-a455-45b653cf6150&PageSize=2&Version=2014-06-18&AccessKeyId=testId&SignatureMethod=HMAC-SHA1&Timestamp=2015-05-14T09%3A03%3A45Z
```

For more information about code, see [Call an API](#).

4.5. Call an API

The Media Processing APIs are called by sending a request (an HTTP or HTTPS request) to the Media Processing server and receiving the server's response to this request. Upon receiving the user request, the Media Processing server verifies the identity and parameters for the request. After all verification procedures are passed, the Media Processing server submits and completes relevant operations based on the specified parameter in the request, and returns the processing result to the caller through an HTTP response.

Procedure

- Prepare request parameters.
- Construct the Canonicalized Query String using the request parameters.
- Construct the signature string.
- Calculate the signature (including the HMAC signature and Base64 code).
- Construct the request URL.

The following uses Java to show how to construct a request:

Global definition.

```
private static final String ENCODE_TYPE = "UTF-8";
private static final String ALGORITHM = "HmacSHA1";
private static final String HTTP_METHOD = "GET";
private static final String SEPARATOR = "&";
private static final String EQUAL = "=";
```

Prepare request parameters.

```
Map parameterMap = new HashMap();
// Request public parameters.
parameterMap.put("Action", "SearchTemplate");
parameterMap.put("Version", "2014-06-18");
parameterMap.put("AccessKeyId", "testId"); //Replace AccessKeyId with your AccessKeyId.
parameterMap.put("Timestamp", "2015-05-14T09:03:45Z");//This timestamp is fixed for test. The signature value generated in the sample code remains unchanged. You can easily compare and verify the data. To generate a variable timestamp, replace this sentence with the following sentence:
//parameterMap.put("Timestamp", formatIso8601Date(new Date()));
parameterMap.put("SignatureMethod", "HMAC-SHA1");
parameterMap.put("SignatureVersion", "1.0");
parameterMap.put("SignatureNonce", "4902260a-516a-4b6a-a455-45b653cf6150"); //The unique random number is fixed for test. The signature value generated in the sample code remains unchanged. You can easily compare and verify the data. To generate a variable unique random number, replace this sentence with the following sentence:
//parameterMap.put("SignatureNonce", UUID.randomUUID().toString());
parameterMap.put("Format", "XML"); //The JSON format is also supported.
```

Construct the Canonicalized Query String using the request parameters.

```
private static String percentEncode(String value) throws UnsupportedOperationException {
    return URLEncoder.encode(value, ENCODE_TYPE).replace("+", "%20").replace("*", "%2A").replace("%7E", "~");
}

private static String buildCanonicalizedQueryString(Map parameterMap) throws UnsupportedOperationException {
    // Sort the parameters.
    List sortedKeys = new ArrayList(parameterMap.keySet());
    Collections.sort(sortedKeys);
    StringBuilder temp = new StringBuilder();
    for (String key : sortedKeys) {
        // The key and value need to be encoded.
        String value = parameterMap.get(key);
        temp.append(SEPARATOR).append(percentEncode(key)).append(EQUAL).append(percentEncode(value));
    }
    return temp.toString().substring(1);
}
```

Calculate the signature (including the HMAC signature and Base64 code).

```
private static String buildStringToSign(String canonicalizedQueryString) throws Unsupported
EncodingException {
    // Generate the stringToSign characters.
    StringBuilder temp = new StringBuilder();
    temp.append(HTTP_METHOD).append(SEPARATOR);
    temp.append(percentEncode("/")).append(SEPARATOR);
    // The Canonicalized Query String needs to be encoded.
    temp.append(percentEncode(canonicalizedQueryString));
    return temp.toString();
}

private static String buildSignature(String keySecret, String stringToSign) throws Unsuppor
tedEncodingException, InvalidKeyException, NoSuchAlgorithmException {
    SecretKey key = new SecretKeySpec((keySecret + SEPARATOR).getBytes(ENCODE_TYPE), SignatureM
ethod.HMAC_SHA1);
    Mac mac = Mac.getInstance(ALGORITHM);
    mac.init(key);
    byte[] hashBytes = mac.doFinal(stringToSign.toString().getBytes(ENCODE_TYPE));
    byte[] base64Bytes = new Base64().encode(hashBytes);
    String base64UTF8String = new String(base64Bytes, "utf-8");
    return URLEncoder.encode(base64UTF8String, ENCODE_TYPE);
}
```

Construct the request URL.

```
private static String buildRequestURL(String signature, Map parameterMap) throws Unsuppor
tedEncodingException {
    // Generate the request URL.
    StringBuilder temp = new StringBuilder("http://mts.aliyuncs.com/?") ;
    temp.append(URLEncoder.encode("Signature", ENCODE_TYPE)).append("=").append(signature);
    for (Map.Entry e : parameterMap.entrySet()) {
        temp.append("&").append(percentEncode(e.getKey())).append("=").append(percentEncode(e.getVa
lue()));
    }
    return temp.toString();
}
```

Examples

- Prepare request parameters.
 - The value of Access Key ID is `testId` .
 - The value of Access Key Secret is `testKeySecret` .
 - The value of Timestamp is `2015-05-14T09:03:45Z` .
 - The value of SignatureNonce is `4902260a-516a-4b6a-a455-45b653cf6150` .
 - The value of Action is `SearchTemplate` , and the value of PageSize is `2` .
 - The value of Format is `XML` .
- Construct the Canonicalized Query String using the request parameters.

```
AccessKeyId=testId&Action=SearchTemplate&Format=XML&PageSize=2&SignatureMethod=HMAC-SHA1&SignatureNonce=4902260a-516a-4b6a-a455-45b653cf6150&SignatureVersion=1.0&Timestamp=2015-05-14T09%3A03%3A45Z&Version=2014-06-18
```

- Construct the signature string.

```
GET%%2F&AccessKeyId%3DtestId&Action%3DSearchTemplate&Format%3DXML&PageSize%3D2&SignatureMethod%3DHMAC-SHA1&SignatureNonce%3D4902260a-516a-4b6a-a455-45b653cf6150&SignatureVersion%3D1.0&Timestamp%3D2015-05-14T09%253A03%253A45Z&Version%3D2014-06-18
```

- Calculate the signature (including the HMAC signature and Base64 code).

```
kmDv4mWo806GWPjQMy2z4VhBBDQ%3D
```

- Construct the request URL.

```
http://mts.cn-hangzhou.aliyuncs.com/?Signature=kmDv4mWo806GWPjQMy2z4VhBBDQ%3D&SignatureVersion=1.0&Action=SearchTemplate&Format=XML&SignatureNonce=4902260a-516a-4b6a-a455-45b653cf6150&PageSize=2&Version=2014-06-18&AccessKeyId=testId&SignatureMethod=HMAC-SHA1&Timestamp=2015-05-14T09%3A03%3A45Z
```

- Next, send an HTTP request (for example, curl) to the URL and obtain the response result (the response result in the sample code is in XML format) from the server.

```
<SearchTemplateResponse>
  <RequestId>017F1B2D-2B5B-4441-ABBA-E0DC08F5AFEC</RequestId>
  <Template>
    <Id>88c6ca184c0e47098a5b665e2a126799</Id>
    <Name>MTS-example</Name>
    <Container>
      <Format>mp4</Format>
    </Container>
    <Video>
      <Codec>H. 264</Codec>
      <Profile>high</Profile>
      <Bitrate>Auto</Bitrate>
      <Crf>15</Crf>
      <Width>256</Width>
      <Height>800</Height>
      <Fps>25</Fps>
      <Gop>10</Gop>
      <Preset>lower</Preset>
      <ScanMode></ScanMode>
      <Bufsize>6000</Bufsize>
      <Maxrate></Maxrate>
      <BitrateBnd>
        <Max></Max>
        <Min></Min>
      </BitrateBnd>
    </Video>
    <Audio>
      <Codec>aac</Codec>
      <Samplerate>44100</Samplerate>
      <Bitrate>500</Bitrate>
      <Channels>2</Channels>
    </Audio>
    <State>Normal</State>
  </Template>
</SearchTemplateResponse>
```

Complete sample code

The sample code is written in Java, and the package manager is Maven.

[Code download](#)

[JAR binary distribution download](#)

Execution command: `java -jar mts-signature-sample-all-0.1.jar testId testKeySecret 4902260a-516a-4b6a-a455-45b653cf6150 2015-05-14T09:03:45Z SearchTemplate XML PageSize@=2`

5. Media information analysis

5.1. SubmitMediaInfoJob

Submits a media information analysis job.

Description

After you call the SubmitMediaInfoJob operation, ApsaraVideo Media Processing (MPS) analyzes the input media file and generates the analysis results. You can call the [QueryMediaInfoJobList](#) operation to query the analysis results.

QPS limit

You can call this operation up to 50 times per second per account. Requests that exceed this limit are dropped and you will experience service interruptions. We recommend that you take note of this limit when you call this operation. For more information, see [QPS limit](#).

Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). [OpenAPI Explorer](#) dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SubmitMediaInfoJob	The operation that you want to perform. Set the value to SubmitMediaInfoJob .

Parameter	Type	Required	Example	Description
Input	String	Yes	<code>{"Bucket": "example-bucket", "Location": "example-location", "Object": "example%2Fexample.flv"}</code>	The information about the input media file. The value is a JSON string. You must perform the following operations to grant MPS permissions to access the Object Storage Service (OSS) bucket in which the input media file is stored: log on to the MPS console, choose Workflows > Media Buckets in the left-side navigation pane, and then click Add Bucket. Then, you must URL-encode the object. For example, <pre>{ "Bucket": "example-bucket", "Location": "example-location", "Object": "example%2Fexample.flv" }</pre> indicates the <code>example-bucket.example-location.aliyuncs.com/example/example.flv</code> file.  Note The OSS bucket must reside in the same region as your MPS service.
UserData	String	No	testid-001	The custom data. The custom data can contain letters, digits, and hyphens (-), and can be up to 1,024 bytes in length. It cannot start with a hyphen (-).
PipelineId	String	No	88c6ca184c0e432bbf5b665e2a15**	The ID of the pipeline to which the analysis job is submitted. To view the pipeline ID, log on to the MPS console and choose Global Settings > Pipelines in the left-side navigation pane.

Parameter	Type	Required	Example	Description
Async	Boolean	No	true	Specifies whether to enable the asynchronous mode to run the job. We recommend that you set this parameter to true. Valid values: true: enables the asynchronous mode. false: does not enable the asynchronous mode.

Response parameters

Parameter	Type	Example	Description
MediaInfoJob	Object		Details of the media information analysis job.
CreationTime	String	2014-01-10T12:00:00Z	The time when the job was created.
State	String	Analyzing	The status of the job. Valid values: Success Fail Analyzing
JobId	String	23ca1d184c0e4341e5b665e2a12****	The ID of the job.
UserData	String	testid-001	The custom data.
Code	String	InvalidParameter.JsonObjectFormatInvalid	The error code returned when the job fails.
Message	String	The parameter "*" does not conform to the JSON Object specification	The error message returned when the job fails.
PipelineId	String	88c6ca184c0e432bbf5b665e2a15****	The ID of the pipeline to which the analysis job was submitted.
Async	Boolean	true	Indicates whether the job is in asynchronous mode.

Parameter	Type	Example	Description
Input	Object		The information about the input media file.
Object	String	example.flv	The name of the input file.
Location	String	example-location	The ID of the OSS region.
Bucket	String	example-bucket	The name of the OSS bucket in which the input file is stored.
MNSMessageResult	Object		Details of the message sent by MNS to notify the user of the job result.
MessageId	String	16f01ad6175e4230ac42bb5182cd****	The ID of the message that indicates the MNS message is sent. This parameter is not returned if the MNS message fails to be sent.
ErrorMessage	String	InvalidParameter.JsonObjectFormatInvalid	The error message returned when the MNS message fails to be sent. This parameter is not returned if the MNS message is sent.
ErrorCode	String	The parameter \"Input\" does not conform to the JSON Object specification	The error code returned when the MNS message fails to be sent. This parameter is not returned if the MNS message is sent.
Properties	Object		The properties of the input file.
Width	String	1920	The width of the video in pixels.
Height	String	1080	The height of the video in pixels.
Duration	String	17.226000	The duration of the media stream. Unit: seconds.
Fps	String	25	The frame rate.
Bitrate	String	1630.045	The bitrate.

Parameter	Type	Example	Description
FileFormat	String	QuickTime/MOV	The format of the input file.
Streams	Object		The media streams contained in the input file.
VideoStreamList	Array of VideoStream		The video streams. A media file can contain up to four video streams.
VideoStream			
Sar	String	1:1	The sample aspect ratio (SAR).
Height	String	1080	The height of the video in pixels.
CodecTagString	String	avc1	The tag string of the encoding format.
NetworkCost	Object		The network bandwidth that was consumed.
PreloadTime	String	8	The time consumed to preload the video.
AvgBitrate	String	300.34	The average bitrate.
CostBandwidth	String	10	The maximum bandwidth that was consumed.
Width	String	1920	The width of the video in pixels.
Index	String	1	The sequence number of the video stream. The value indicates the position of the video stream in all video streams.
Timebase	String	1/24000	The time base.
AvgFPS	String	23.976025	The average frame rate.
PixFmt	String	yuv420p	The pixel format.

Parameter	Type	Example	Description
Lang	String	eng	The language.
CodecLongName	String	H.264/AVC/MPEG-4 AVC/MPEG-4 part 10	The full name of the encoding format.
NumFrames	String	100	The total number of frames.
Rotate	String	90	The rotation angle of the video.
Bitrate	String	1496.46	The bitrate.
HasBFrames	String	0	Indicates whether the video stream contains bidirectional frames (B-frames). 1 indicates that the video stream contains B-frames and 0 indicates that the video stream does not contain B-frames.
Profile	String	High	The codec profile.
StartTime	String	0.042000	The start time of the video stream.
Dar	String	16:9	The display aspect ratio (DAR).
CodecName	String	h264	The short name of the encoding format. Valid values: • h264 • h265 • gif • webp
Duration	String	17.225542	The duration of the video stream.
Fps	String	25	The frame rate.
CodecTag	String	0x31637661	The tag of the encoding format.
CodecTimeBase	String	1001/48000	The codec time base.

Parameter	Type	Example	Description
Level	String	41	The codec level.
ColorRange	String	700	The color range.
ColorTransfer	String	R255 G83 B170	The color channel.
ColorPrimaries	String	700	The level of color reconstruction.
AudioStreamList	Array of AudioStream		The audio streams. A media file can contain up to four audio streams.
AudioStream			
Timebase	String	1/44100	The time base.
Index	String	1	The sequence number of the audio stream. The value indicates the position of the audio stream in all audio streams.
SampleFmt	String	flt	The sampling format.
ChannelLayout	String	stereo	The output layout of the sound channels.
Lang	String	eng	The language.
Samplerate	String	44100	The sampling rate.
CodecLongName	String	AAC (Advanced Audio Coding)	The full name of the encoding format.
Channels	String	2	The number of sound channels.
NumFrames	String	123	The total number of frames.
Bitrate	String	128.806	The bitrate.
CodecTagString	String	mp4a	The tag string of the encoding format.

Parameter	Type	Example	Description
StartTime	String	0.000000	The start time of the audio stream.
CodecName	String	aac	The short name of the encoding format. Default value: acc. Valid values: • acc • mp3 • mp4 • ogg • flac
Duration	String	17.159546	The duration of the audio stream. Unit: seconds.
CodecTag	String	0x6134706d	The tag of the encoding format.
CodecTimeBase	String	1/44100	The codec time base.
SubtitleStream List	Array of SubtitleStream		The subtitle streams. A media file can contain up to four subtitle streams.
SubtitleStream			
Timebase	String	1/1000	The time base.
Index	String	3	The sequence number of the subtitle stream. The value indicates the position of the subtitle stream in all subtitle streams.
StartTime	String	0.000000	The start time of the subtitle stream.
CodecName	String	ass	The short name of the encoding format. Valid values: • srt • ass
Lang	String	eng	The language.
CodecLongName	String	ASS (Advanced SSA) subtitle	The full name of the encoding format.

Parameter	Type	Example	Description
Duration	String	1370.116000	The duration of the subtitle stream.
CodecTag	String	0x0000	The tag of the encoding format.
CodecTimeBase	String	0/1	The codec time base.
CodecTagString	String	[0][0][0][0]	The tag string of the encoding format.
Format	Object		The format information.
StartTime	String	0.000000	The start time of the media stream.
NumPrograms	String	0	The total number of program streams.
Size	String	3509895	The size of the file.
NumStreams	String	2	The total number of media streams.
FormatLongName	String	QuickTime/MOV	The full name of the container format.
Duration	String	17.226000	The duration of the media stream.
Bitrate	String	1630.045	The total bitrate.
FormatName	String	mov	The short name of the container format. For more information about the parameters, see Parameter details .
FileSize	String	3509895	The size of the file.

Parameter	Type	Example	Description
RequestId	String	62D9BE16-B7D5-550C-A482-7A0F60E09877	The ID of the request.  Note If a request error occurs, check whether the input media file is valid. If the input file is valid but the problem persists, submit a ticket to contact Alibaba Cloud customer service.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=SubmitMediaInfoJob
&ResourceOwnerId=1
&Input={"Bucket":"example-bucket","Location":"example-location","Object":"example%2Fexample.flv"}
&UserData=testid-001
&PipelineId=88c6ca184c0e432bbf5b665e2a15****
&Async=true
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<SubmitMediaInfoJobResponse>
  <MediaInfoJob>
    <CreationTime>2014-01-10T12:00:00Z</CreationTime>
    <State>Analyzing</State>
    <JobId>23ca1d184c0e4341e5b665e2a12****</JobId>
    <UserData>testid-001</UserData>
    <PipelineId>88c6ca184c0e432bbf5b665e2a15****</PipelineId>
    <Async>true</Async>
    <Input>
      <Object>example.flv</Object>
      <Location>example-location</Location>
      <Bucket>example-bucket</Bucket>
    </Input>
    <MNSMessageResult>
      <MessageId>16f01ad6175e4230ac42bb5182cd****</MessageId>
    </MNSMessageResult>
    <Properties>
      <Width>1920</Width>
      <Height>1080</Height>
      <Duration>17.226000</Duration>
      <Fps>25</Fps>
      <Bitrate>1630.045</Bitrate>
      <FileFormat>QuickTime/MOV</FileFormat>
```

```
<Streams>
  <VideoStreamList>
    <Sar>1:1</Sar>
    <Height>1080</Height>
    <CodecTagString>avc1</CodecTagString>
    <NetworkCost>
      <PreloadTime>8</PreloadTime>
      <AvgBitrate>300.34</AvgBitrate>
      <CostBandwidth>10</CostBandwidth>
    </NetworkCost>
    <Width>1920</Width>
    <Index>1</Index>
    <Timebase>1/24000</Timebase>
    <AvgFPS>23.976025</AvgFPS>
    <PixFmt>yuv420p</PixFmt>
    <Lang>eng</Lang>
    <CodecLongName>H.264/AVC/MPEG-4 AVC/MPEG-4 part 10</CodecLongName>
    <NumFrames>100</NumFrames>
    <Rotate>90</Rotate>
    <Bitrate>1496.46</Bitrate>
    <HasBFrames>0</HasBFrames>
    <Profile>High</Profile>
    <StartTime>0.042000</StartTime>
    <Dar>16:9</Dar>
    <CodecName>h264</CodecName>
    <Duration>17.225542</Duration>
    <Fps>25</Fps>
    <CodecTag>0x31637661</CodecTag>
    <CodecTimeBase>1001/48000</CodecTimeBase>
    <Level>41</Level>
    <ColorRange>700</ColorRange>
    <ColorTransfer>R255 G83 B170</ColorTransfer>
    <ColorPrimaries>700</ColorPrimaries>
  </VideoStreamList>
  <AudioStreamList>
    <Timebase>1/44100</Timebase>
    <Index>1</Index>
    <SampleFmt>fltp</SampleFmt>
    <ChannelLayout>stereo</ChannelLayout>
    <Lang>eng</Lang>
    <Samplerate>44100</Samplerate>
    <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
    <Channels>2</Channels>
    <NumFrames>123</NumFrames>
    <Bitrate>128.806</Bitrate>
    <CodecTagString>mp4a</CodecTagString>
    <StartTime>0.000000</StartTime>
    <CodecName>aac</CodecName>
    <Duration>17.159546</Duration>
    <CodecTag>0x6134706d</CodecTag>
    <CodecTimeBase>1/44100</CodecTimeBase>
  </AudioStreamList>
  <SubtitleStreamList>
    <Timebase>1/1000</Timebase>
```



```

        <Index>3</Index>
        <StartTime>0.000000</StartTime>
        <CodecName>ass</CodecName>
        <Lang>eng</Lang>
        <CodecLongName>ASS (Advanced SSA) subtitle</CodecLongName>
        <Duration>1370.116000</Duration>
        <CodecTag>0x0000</CodecTag>
        <CodecTimeBase>0/1</CodecTimeBase>
        <CodecTagString>[0][0][0][0]</CodecTagString>
    </SubtitleStreamList>
</Streams>
<Format>
    <StartTime>0.000000</StartTime>
    <NumPrograms>0</NumPrograms>
    <Size>3509895</Size>
    <NumStreams>2</NumStreams>
    <FormatLongName>QuickTime/MOV</FormatLongName>
    <Duration>17.226000</Duration>
    <Bitrate>1630.045</Bitrate>
    <FormatName>mov</FormatName>
</Format>
<FileSize>3509895</FileSize>
</Properties>
</MediaInfoJob>
<RequestId>62D9BE16-B7D5-550C-A482-7A0F60E09877</RequestId>
</SubmitMediaInfoJobResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "MediaInfoJob": {
    "CreationTime": "2014-01-10T12:00:00Z",
    "State": "Analyzing",
    "JobId": "23cald184c0e4341e5b665e2a12****",
    "UserData": "testid-001",
    "PipelineId": "88c6ca184c0e432bbf5b665e2a15****",
    "Async": true,
    "Input": {
      "Object": "example.flv",
      "Location": "example-location",
      "Bucket": "example-bucket"
    },
    "MNSMessageResult": {
      "MessageId": "16f01ad6175e4230ac42bb5182cd****",
    },
    "Properties": {
      "Width": "1920",
      "Height": "1080",
      "Duration": "17.226000",
      "Fps": "25",
      "Bitrate": "1630.045",
      "FileFormat": "QuickTime/MOV",

```

```
"Streams": {
  "VideoStreamList": [
    {
      "Sar": "1:1",
      "Height": "1080",
      "CodecTagString": "avc1",
      "NetworkCost": {
        "PreloadTime": "8",
        "AvgBitrate": "300.34",
        "CostBandwidth": "10"
      },
      "Width": "1920",
      "Index": "1",
      "Timebase": "1/24000",
      "AvgFPS": "23.976025",
      "PixFmt": "yuv420p",
      "Lang": "eng",
      "CodecLongName": "H.264/AVC/MPEG-4 AVC/MPEG-4 part 10",
      "NumFrames": "100",
      "Rotate": "90",
      "Bitrate": "1496.46",
      "HasBFrames": "0",
      "Profile": "High",
      "StartTime": "0.042000",
      "Dar": "16:9",
      "CodecName": "h264",
      "Duration": "17.225542",
      "Fps": "25",
      "CodecTag": "0x31637661",
      "CodecTimeBase": "1001/48000",
      "Level": "41",
      "ColorRange": "700",
      "ColorTransfer": "R255 G83 B170",
      "ColorPrimaries": "700"
    }
  ],
  "AudioStreamList": [
    {
      "Timebase": "1/44100",
      "Index": "1",
      "SampleFmt": "fltp",
      "ChannelLayout": "stereo",
      "Lang": "eng",
      "Samplerate": "44100",
      "CodecLongName": "AAC (Advanced Audio Coding)",
      "Channels": "2",
      "NumFrames": "123",
      "Bitrate": "128.806",
      "CodecTagString": "mp4a",
      "StartTime": "0.000000",
      "CodecName": "aac",
      "Duration": "17.159546",
      "CodecTag": "0x6134706d",
      "CodecTimeBase": "1/44100"
    }
  ]
}
```

```
    }
  ],
  "SubtitleStreamList": [
    {
      "Timebase": "1/1000",
      "Index": "3",
      "StartTime": "0.000000",
      "CodecName": "ass",
      "Lang": "eng",
      "CodecLongName": "ASS (Advanced SSA) subtitle",
      "Duration": "1370.116000",
      "CodecTag": "0x0000",
      "CodecTimeBase": "0/1",
      "CodecTagString": "[0][0][0][0]"
    }
  ]
},
"Format": {
  "StartTime": "0.000000",
  "NumPrograms": "0",
  "Size": "3509895",
  "NumStreams": "2",
  "FormatLongName": "QuickTime/MOV",
  "Duration": "17.226000",
  "Bitrate": "1630.045",
  "FormatName": "mov"
},
"FileSize": "3509895"
},
"RequestId": "62D9BE16-B7D5-550C-A482-7A0F60E09877"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

5.2. QueryMediaInfoJobList

Queries one or more media information analysis jobs.

Usage notes

- You can call this operation to query up to 10 media information analysis jobs at a time.
- After you upload a media file, the media information can be retrieved only after a callback is returned, indicating that the media file has been analyzed. If you have not received a callback for a long period, or if you have not configured callback settings but you cannot retrieve the media information long after a media information analysis job is submitted, the job may fail. In this case, [submit a ticket](#) and provide your Alibaba Cloud account ID, the region in which you use ApsaraVideo Media Processing (MPS), and the video ID for troubleshooting.

QPS limit

You can call this operation up to 100 times per second per account. Requests that exceed this limit are dropped and you will experience service interruptions. We recommend that you take note of this limit when you call this operation. For more information, see [QPS limit](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	QueryMediaInfoJobList	The operation that you want to perform. Set the value to QueryMediaInfoJobList .
MediaInfoJobIds	String	Yes	23ca1d184c0e4341e5b665e2a12**	The IDs of the media information analysis jobs. Separate multiple jobs with commas (.). You can query up to 10 jobs at a time.

Response parameters

Parameter	Type	Example	Description
NotExistMediaInfoJobIds	Array of String	11ce1d184c0e4341e5b665e2a12****	The IDs of the media information analysis jobs that do not exist. If all specified jobs exist, the response does not contain this parameter.
RequestId	String	46A04AA5-B119-41BB-B750-7C5327AC3E7A	The ID of the request.
MediaInfoJobList	Array of MediaInfoJob		The details of each returned media information analysis job.
MediaInfoJob			
CreationTime	String	2014-01-10T12:00:00Z	The time when the job was created.
State	String	Success	The status of the job. Valid values: Analyzing: The job is being run. Success: The job is successful. Fail: The job fails.

Parameter	Type	Example	Description
JobId	String	23ca1d184c0e4341e5b665e2a12****	The ID of the job.
UserData	String	testid-001	The custom data.
Code	String	InvalidParameter.JsonObjectFormatInvalid	The error code returned when the job fails.
Message	String	The parameter "*" does not conform to the JSON Object specification	The error message returned when the job fails.
PipelineId	String	88c6ca184c0e432bbf5b665e2a15****	The ID of the MPS queue to which the job is added.
Async	Boolean	true	Indicates whether the job is in asynchronous mode.
Input	Object		The information about the job input.
Object	String	example.mp4	The name of the Object Storage Service (OSS) object used as the input file.
Location	String	oss-cn-hangzhou	The ID of the OSS region.
Bucket	String	example-bucket	The name of the OSS bucket that stores the object.
MNSMessageResult	Object		The message sent by Message Service (MNS) to notify the user of the job result.
MessageId	String	123	The ID of the success message returned when the job is successful. This parameter is not returned if the job fails.
ErrorMessage	String	The parameter \"Input\" does not conform to the JSON Object specification	The error message returned when the job fails. This parameter is not returned if the job is successful.

Parameter	Type	Example	Description
ErrorCode	String	InvalidParameter.JsonObjectFormatInvalid	The error code returned when the job fails. This parameter is not returned if the job is successful.
Properties	Object		The information about the input file. For more information, see AliyunProperties .
Width	String	1280	The width of the video. Unit: pixel.
Height	String	720	The height of the video. Unit: pixel.
Duration	String	17.226000	The duration.
Fps	String	25	The frame rate.
Bitrate	String	1630.045	The bitrate.
FileFormat	String	QuickTime/MOV	The file format.
Streams	Object		The stream information.
VideoStreamList	Array of VideoStream		The information about each video stream.
VideoStream			
Sar	String	1:1	The sample aspect ratio (SAR).
Height	String	1080	The latter number in the video resolution. The number indicates the video height.
CodecTagString	String	[0][0][0][0]	The tag string of the encoding format.
NetworkCost	Object		The network bandwidth consumption.
PreloadTime	String	8	The amount of preload time.

Parameter	Type	Example	Description
AvgBitrate	String	300.34	The average bitrate.
CostBandwidth	String	10	The maximum bandwidth consumption.
Width	String	1920	The former number in the video resolution. The number indicates the video width.
Index	String	1	The sequence number of the video stream. The value indicates the position of the video stream in all video streams.
Timebase	String	1/1000	The time base.
AvgFPS	String	24000/1001	The average frame rate.
PixFmt	String	yuv420p	The pixel format.
Lang	String	eng	The language.
CodecLongName	String	H.264/AVC/MPEG-4 AVC/MPEG-4 part 10	The full name of the encoding format.
NumFrames	String	100	The total number of frames.
Rotate	String	180	The video rotation angle.
Bitrate	String	30541090	The bitrate.
HasBFrames	String	0	Indicates whether the video stream contains bidirectional frames (B-frames). A value of 1 indicates that the video stream contains B-frames. A value of 0 indicates that the video stream does not contain B-frames.
Profile	String	High	The codec profile.
StartTime	String	0.042000	The start time.

Parameter	Type	Example	Description
Dar	String	16:9	The display aspect ratio (DAR).
CodecName	String	h264	The short name of the encoding format. Valid values: • h264 • h265 • gif • webp
Duration	String	100	The duration.
Fps	String	25	The frame rate.
CodecTag	String	0x0000	The tag of the encoding format.
CodecTimeBase	String	1001/48000	The codec time base.
Level	String	41	The codec level.
ColorRange	String	700	The color range.
ColorTransfer	String	R255 G83 B170	The color channel.
ColorPrimaries	String	700	The level of color reconstruction.
AudioStreamList	Array of AudioStream		The information about each audio stream.
AudioStream			
Timebase	String	1/1000	The time base.
Index	String	1	The sequence number of the audio stream. The value indicates the position of the audio stream in all audio streams.
SampleFmt	String	fltp	The sampling format.

Parameter	Type	Example	Description
ChannelLayout	String	5.1(side)	The number of sound channels.
Lang	String	eng	The language. For more information, see 21.20.1 Metadata in FFmpeg documentation.
Samplerate	String	48000	The sampling rate.
CodecLongName	String	DCA (DTS Coherent Acoustics)	The full name of the encoding format.
Channels	String	2	The output layout of the sound channels.
NumFrames	String	123	The total number of frames.
Bitrate	String	1536000	The bitrate.
CodecTagString	String	[0][0][0][0]	The tag string of the encoding format.
StartTime	String	0.042000	The start time.
CodecName	String	acc	The short name of the encoding format. Valid values: • acc • mp3 • mp4 • ogg • flac
Duration	String	123	The duration.
CodecTag	String	0x0000	The tag of the encoding format.
CodecTimeBase	String	1/48000	The codec time base.
SubtitleStreamList	Array of SubtitleStream		The information about each subtitle stream.
SubtitleStream			

Parameter	Type	Example	Description
Timebase	String	1/1000	The time base.
Index	String	3	The sequence number of the subtitle stream. The value indicates the position of the subtitle stream in all subtitle streams.
StartTime	String	0.000000	The start time.
CodecName	String	ass	The short name of the encoding format. Valid values: - srt - ass
Lang	String	eng	The language.
CodecLongName	String	ASS (Advanced SSA) subtitle	The full name of the encoding format.
Duration	String	1370.116000	The duration. Unit: seconds.
CodecTag	String	0x0000	The tag of the encoding format.
CodecTimeBase	String	0/1	The codec time base.
CodecTagString	String	[0][0][0][0]	The tag string of the encoding format.
Format	Object		The format information.
StartTime	String	0.042000	The start time.
NumPrograms	String	2	The total number of program streams.
Size	String	3509895	The size of the file.
NumStreams	String	1	The total number of media streams.
FormatLongName	String	QuickTime/MOV	The full name of the container format.

Parameter	Type	Example	Description
Duration	String	17.226000	The total duration.
Bitrate	String	1630.045	The total bitrate.
FormatName	String	mov	The short name of the container format.
FileSize	String	3509895	The size of the file.

Examples

Sample request

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=QueryMediaInfoJobList
&MediaInfoJobIds=23ca1d184c0e4341e5b665e2a12****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<QueryMediaInfoJobListResponse>
  <NonExistMediaInfoJobIds>11ce1d184c0e4341e5b665e2a12****</NonExistMediaInfoJobIds>
  <RequestId>46A04AA5-B119-41BB-B750-7C5327AC3E7A</RequestId>
  <MediaInfoJobList>
    <CreationTime>2014-01-10T12:00:00Z</CreationTime>
    <State>Success</State>
    <JobId>23ca1d184c0e4341e5b665e2a12****</JobId>
    <UserData>testid-001</UserData>
    <PipelineId>88c6ca184c0e432bbf5b665e2a15****</PipelineId>
    <Async>true</Async>
    <Input>
      <Object>example.mp4</Object>
      <Location>oss-cn-hangzhou</Location>
      <Bucket>example-bucket</Bucket>
    </Input>
    <MNSMessageResult>
      <MessageId>123</MessageId>
    </MNSMessageResult>
    <Properties>
      <Width>1280</Width>
      <Height>720</Height>
      <Duration>17.226000</Duration>
      <Fps>25</Fps>
      <Bitrate>1630.045</Bitrate>
      <FileFormat>QuickTime/MOV</FileFormat>
      <Streams>
```

```
<VideoStreamList>
  <Sar>1:1</Sar>
  <Height>1080</Height>
  <CodecTagString>[0][0][0][0]</CodecTagString>
  <NetworkCost>
    <PreloadTime>8</PreloadTime>
    <AvgBitrate>300.34</AvgBitrate>
    <CostBandwidth>10</CostBandwidth>
  </NetworkCost>
  <Width>1920</Width>
  <Index>1</Index>
  <Timebase>1/1000</Timebase>
  <AvgFPS>24000/1001</AvgFPS>
  <PixelFormat>yuv420p</PixelFormat>
  <Lang>eng</Lang>
  <CodecLongName>H.264/AVC/MPEG-4 AVC/MPEG-4 part 10</CodecLongName>
  <NumFrames>100</NumFrames>
  <Rotate>180</Rotate>
  <Bitrate>30541090</Bitrate>
  <HasBFrames>0</HasBFrames>
  <Profile>High</Profile>
  <StartTime>0.042000</StartTime>
  <Dar>16:9</Dar>
  <CodecName>h264</CodecName>
  <Duration>100</Duration>
  <Fps>25</Fps>
  <CodecTag>0x0000</CodecTag>
  <CodecTimeBase>1001/48000</CodecTimeBase>
  <Level>41</Level>
  <ColorRange>700</ColorRange>
  <ColorTransfer>R255 G83 B170</ColorTransfer>
  <ColorPrimaries>700</ColorPrimaries>
</VideoStreamList>
<AudioStreamList>
  <Timebase>1/1000</Timebase>
  <Index>1</Index>
  <SampleFmt>fltp</SampleFmt>
  <ChannelLayout>5.1(side)</ChannelLayout>
  <Lang>eng</Lang>
  <Samplerate>48000</Samplerate>
  <CodecLongName>DCA (DTS Coherent Acoustics)</CodecLongName>
  <Channels>2</Channels>
  <NumFrames>123</NumFrames>
  <Bitrate>1536000</Bitrate>
  <CodecTagString>[0][0][0][0]</CodecTagString>
  <StartTime>0.042000</StartTime>
  <CodecName>acc</CodecName>
  <Duration>123</Duration>
  <CodecTag>0x0000</CodecTag>
  <CodecTimeBase>1/48000</CodecTimeBase>
</AudioStreamList>
<SubtitleStreamList>
  <Timebase>1/1000</Timebase>
  <Index>3</Index>
```

```

        <StartTime>0.000000</StartTime>
        <CodecName>ass</CodecName>
        <Lang>eng</Lang>
        <CodecLongName>ASS (Advanced SSA) subtitle</CodecLongName>
        <Duration>1370.116000</Duration>
        <CodecTag>0x0000</CodecTag>
        <CodecTimeBase>0/1</CodecTimeBase>
        <CodecTagString>[0][0][0][0]</CodecTagString>
    </SubtitleStreamList>
</Streams>
<Format>
    <StartTime>0.042000</StartTime>
    <NumPrograms>2</NumPrograms>
    <Size>3509895</Size>
    <NumStreams>1</NumStreams>
    <FormatLongName>QuickTime/MOV</FormatLongName>
    <Duration>17.226000</Duration>
    <Bitrate>1630.045</Bitrate>
    <FormatName>mov</FormatName>
</Format>
    <FileSize>3509895</FileSize>
</Properties>
</MediaInfoJobList>
</QueryMediaInfoJobListResponse>

```

JSON **format**

```

HTTP/1.1 200 OK
Content-Type:application/json
{
    "NonExistMediaInfoJobIds": [
        "11ce1d184c0e4341e5b665e2a12****"
    ],
    "RequestId": "46A04AA5-B119-41BB-B750-7C5327AC3E7A",
    "MediaInfoJobList": [
        {
            "CreationTime": "2014-01-10T12:00:00Z",
            "State": "Success",
            "JobId": "23ca1d184c0e4341e5b665e2a12****",
            "UserData": "testid-001",
            "PipelineId": "88c6ca184c0e432bbf5b665e2a15****",
            "Async": true,
            "Input": {
                "Object": "example.mp4",
                "Location": "oss-cn-hangzhou",
                "Bucket": "example-bucket"
            },
            "MNSMessageResult": {
                "MessageId": "123",
            },
            "Properties": {
                "Width": "1280",
                "Height": "720",
                "Duration": "17.226000",
            }
        }
    ]
}

```

```
"Fps": "25",
"Bitrate": "1630.045",
"FileFormat": "QuickTime/MOV",
"Streams": {
  "VideoStreamList": [
    {
      "Sar": "1:1",
      "Height": "1080",
      "CodecTagString": "[0][0][0][0]",
      "NetworkCost": {
        "PreloadTime": "8",
        "AvgBitrate": "300.34",
        "CostBandwidth": "10"
      },
      "Width": "1920",
      "Index": "1",
      "Timebase": "1/1000",
      "AvgFPS": "24000/1001",
      "PixFmt": "yuv420p",
      "Lang": "eng",
      "CodecLongName": "H.264/AVC/MPEG-4 AVC/MPEG-4 part 10",
      "NumFrames": "100",
      "Rotate": "180",
      "Bitrate": "30541090",
      "HasBFrames": "0",
      "Profile": "High",
      "StartTime": "0.042000",
      "Dar": "16:9",
      "CodecName": "h264",
      "Duration": "100",
      "Fps": "25",
      "CodecTag": "0x0000",
      "CodecTimeBase": "1001/48000",
      "Level": "41",
      "ColorRange": "700",
      "ColorTransfer": "R255 G83 B170",
      "ColorPrimaries": "700"
    }
  ],
  "AudioStreamList": [
    {
      "Timebase": "1/1000",
      "Index": "1",
      "SampleFmt": "fltp",
      "ChannelLayout": "5.1(side)",
      "Lang": "eng",
      "Samplerate": "48000",
      "CodecLongName": "DCA (DTS Coherent Acoustics)",
      "Channels": "2",
      "NumFrames": "123",
      "Bitrate": "1536000",
      "CodecTagString": "[0][0][0][0]",
      "StartTime": "0.042000",
      "CodecName": "acc",
    }
  ]
}
```

```
        "Duration": "123",
        "CodecTag": "0x0000",
        "CodecTimeBase": "1/48000"
    },
    ],
    "SubtitleStreamList": [
        {
            "Timebase": "1/1000",
            "Index": "3",
            "StartTime": "0.000000",
            "CodecName": "ass",
            "Lang": "eng",
            "CodecLongName": "ASS (Advanced SSA) subtitle",
            "Duration": "1370.116000",
            "CodecTag": "0x0000",
            "CodecTimeBase": "0/1",
            "CodecTagString": "[0][0][0][0]"
        }
    ]
},
"Format": {
    "StartTime": "0.042000",
    "NumPrograms": "2",
    "Size": "3509895",
    "NumStreams": "1",
    "FormatLongName": "QuickTime/MOV",
    "Duration": "17.226000",
    "Bitrate": "1630.045",
    "FormatName": "mov"
},
"FileSize": "3509895"
}
]
```

Error codes

For a list of error codes, visit the [API Error Center](#).

6. Preset smart template recommended APIs

6.1. SubmitAnalysisJob

Submits a preset template analysis job.

Usage notes

- After you call the SubmitAnalysisJob operation to submit a preset template analysis job, ApsaraVideo Media Processing (MPS) intelligently analyzes the input file of the job and recommends a suitable preset template. You can call the [QueryAnalysisJobList](#) operation to query the analysis result or enable asynchronous notifications to receive the analysis result.
- The analysis result is retained only for two weeks since it is generated. It is deleted after two weeks. If you use the recommended preset template in a transcoding job after two weeks, the job fails, and the `AnalysisResultNotFound` error code is returned.

QPS limit

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limit](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SubmitAnalysisJob	The operation that you want to perform. Set the value to SubmitAnalysisJob .
Input	String	Yes	null	The input information about the preset template analysis job to be submitted. The value is a JSON object. You must log on to the Object Storage Service (OSS) console to grant the read permissions on the specified OSS bucket to MPS.
AnalysisConfig	String	No	null	The job configuration. Set this parameter as required.

Parameter	Type	Required	Example	Description
UserData	String	No	testid-001	The custom data. The custom data can contain letters, digits, and hyphens (-), and can be up to 1,024 bytes in length. It cannot start with a special character.
PipelineId	String	Yes	bb558c1cc25b45309aab5be44d19****	The ID of the MPS queue to which the job is added. To view the MPS queue ID, log on to the MPS console and choose Global Settings > Pipelines in the left-side navigation pane. If you want to enable asynchronous notifications, make sure that the queue is bound to a Message Service (MNS) topic.
Priority	String	No	10	The priority of the job in the MPS queue to which the job is added. - Valid values: 1 to 10. A value of 10 indicates the highest priority. - Default value: 6.

Response parameters

Parameter	Type	Example	Description
RequestId	String	B52658D4-07AB-43CD-82B0-210958A65E23	The ID of the request.
AnalysisJob	Object		The information about the preset template analysis job that was submitted.
CreationTime	String	2014-01-10T12:00:00Z	The time when the job was created.
Percent	Long	100	The transcoding progress.
State	String	Success	The status of the job. Valid values: Submitted: The job has been submitted. Analyzing: The job is being run. Success: The job is successful. Fail: The job fails.

Parameter	Type	Example	Description
AnalysisConfig	Object		The job configuration.
QualityControl	Object		The quality control on the job output.
MethodStreaming	String	network	The playback mode. Valid values: • network: online playback • local: playback on on-premises devices • Default value: network.
RateQuality	String	50	The quality level of the job output.
PropertiesControl	Object		The control on the attributes of the job output.
Deinterlace	String	Force	Indicates whether deinterlacing was forced to run. Valid values: • Auto: Deinterlacing was automatically run. • Force: Deinterlacing was forced to run. • None: Deinterlacing was forced not to run.
Crop	Object		The cropping configuration of video images.
Top	String	8	The top margin that was cropped out.  Note This parameter is invalid if the Mode parameter is set to Auto or None.
Width	String	8	The width of the video after the margins were cropped out.  Note This parameter is invalid if the Mode parameter is set to Auto or None.

Parameter	Type	Example	Description
Height	String	8	The height of the video after the margins were cropped out.  Note This parameter is invalid if the Mode parameter is set to Auto or None.
Left	String	8	The left margin that was cropped out.  Note This parameter is invalid if the Mode parameter is set to Auto or None.
Mode	String	Auto	The cropping mode. Valid values: Valid values: • Auto: Cropping was automatically run. This is the default value. • Force: Cropping was forced to run. • None: Cropping was forced not to run.
Message	String	The resource operated \"PipelineId\" cannot be found	The error message returned when the job fails.
Priority	String	10	The priority of the job in the MPS queue to which the job is added. • Valid values: 1 to 10. A value of 10 indicates the highest priority. • Default value: 10.
MNSMessageResult	Object		The message sent by MNS to notify the user of the job result.
MessageId	String	3ca84a39a9024f19853b21be9cf9****	The ID of the success message. This parameter is not returned if the job fails.
ErrorMessage	String	The resource operated \"PipelineId\" cannot be found	The error message returned when the job fails. This parameter is not returned if the job is successful.

Parameter	Type	Example	Description
ErrorCode	String	InvalidParameter.ResourceNotFound	The error code returned when the job fails. This parameter is not returned if the job is successful.
TemplateList	Array of Template		The list of matched preset templates.
Template			
Video	Object		The video codec configuration.
Bufsize	String	5000	The size of the buffer. - Unit: KB. - Default value: 6000.
Degrain	String	5	The level of the independent denoising algorithm.
BitrateBnd	Object		The average bitrate range of the video.
Max	String	20	The upper limit of the total bitrate. Unit: Kbit/s.
Min	String	10	The lower limit of the total bitrate. Unit: Kbit/s.
PixFmt	String	yuvj420p	The pixel format for video color encoding. Valid values: standard pixel formats such as yuv420p and yuvj420p.
Codec	String	H.264	The video codec format. Default value: H.264 .
Height	String	1880	The height of the video. - Unit: pixel. - Default value: the original height of the video.
Qscale	String	15	The level of quality control on the video.

Parameter	Type	Example	Description
Bitrate	String	10	The average bitrate of the video. Unit: Kbit/s.
Maxrate	String	10	The maximum video bitrate. Unit: Kbit/s.
Profile	String	baseline	The codec profile. Valid values: • baseline: applicable to mobile devices. • main: applicable to standard-definition devices. • high: applicable to high-definition devices. • Default value: high.
Crf	String	27	The constant rate factor, which is the default quality control setting. • Default value when the Codec parameter is set to H.264: 23. Default value when the Codec parameter is set to H.265: 26. • If this parameter is returned, the setting of the Bitrate parameter is invalid.
Gop	String	1	The maximum number of frames between two keyframes. Default value: 250 .
Width	String	1990	The width of the video. • Unit: pixel. • Default value: the original width of the video.
Fps	String	60	The frame rate. • The value is 60 if the frame rate of the input file exceeds 60. • Default value: the frame rate of the input file.
Preset	String	medium	The preset video algorithm. Valid values: veryfast, fast, medium, slow, and slower. Default value: medium .

Parameter	Type	Example	Description
ScanMode	String	progressive	The scan mode. Valid values: • interlaced: An interlaced scan was performed. • progressive: A progressive scan was performed.
TransConfig	Object		The general transcoding configuration.
TransMode	String	onepass	The transcoding mode. Valid values: onepass, twopass, and CBR. Default value: onepass .
State	String	Normal	The status of the template. Valid values: • Normal: The template is in the normal state. • Deleted: The template is deleted.
MuxConfig	Object		The transmuxing configuration.
Gif	Object		The GIF format.
FinalDelay	String	0	The interval between two consecutive loops for the GIF format. Unit: 0.01s. For example, a value of 500 indicates 5 seconds.
Loop	String	0	The number of loops for the GIF or WebP format. Default value: 0.
Segment	Object		The segment configuration.
Duration	String	60	The length of the segment. Unit: seconds.
Name	String	FLV-UD	The name of the template.
Audio	Object		The audio codec configuration.

Parameter	Type	Example	Description
Profile	String	aac_low	The codec profile of the audio file. Valid values when the Codec parameter is set to aac : aac_low, aac_he, aac_he_v2, aac_ld, and aac_eld.
Codec	String	mp3	The audio codec format. Default value: aac .
Samplerate	String	32000	The sampling rate. - Unit: Hz. - Default value: 44100.
Qscale	String	10	The level of quality control on the audio.
Channels	String	1	The number of sound channels. Default value: 2.
Bitrate	String	8	The audio bitrate of the output file. - Unit: Kbit/s. - Default value: 128.
Id	String	S000000000-00****	The ID of the transcoding template.
Container	Object		The container configuration.
Format	String	flv	The container format.
UserData	String	testid-001	The custom data.
Code	String	InvalidParameter.ResourceNotFound	The error code returned when the job fails. This parameter is not returned if the job is successful.
InputFile	Object		The information about the job input.
Object	String	example.flv	The name of the input file uploaded to the OSS bucket.

Parameter	Type	Example	Description
Location	String	oss-cn-hangzhou	The ID of the OSS region.
Bucket	String	example-bucket	The name of the OSS bucket to which the input file is uploaded.
PipelineId	String	bb558c1cc25b45309aab5be44d19****	The ID of the MPS queue to which the job is added.
Id	String	57f6aa3f84824309bcb67231b40****	The ID of the template analysis job.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=SubmitAnalysisJob
&Input={"Bucket":"example-bucket","Location":"oss-cn-hangzhou","Object":"example.flv"}
&AnalysisConfig={"QualityControl":{"RateQuality":25,"MethodStreaming":"network"}}
&UserData=testid-001
&PipelineId=bb558c1cc25b45309aab5be44d19****
&Priority=10
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<SubmitAnalysisJobResponse>
  <RequestId>B52658D4-07AB-43CD-82B0-210958A65E23</RequestId>
  <AnalysisJob>
    <CreationTime>2014-01-10T12:00:00Z</CreationTime>
    <Percent>100</Percent>
    <State>Success</State>
    <AnalysisConfig>
      <QualityControl>
        <MethodStreaming>network</MethodStreaming>
        <RateQuality>50</RateQuality>
      </QualityControl>
      <PropertiesControl>
        <Deinterlace>Force</Deinterlace>
        <Crop>
          <Top>8</Top>
          <Width>8</Width>
          <Height>8</Height>
          <Left>8</Left>
          <Mode>Auto</Mode>
```



```
</Crop>
</PropertiesControl>
</AnalysisConfig>
<Message>The resource operated \"PipelineId\" cannot be found</Message>
<Priority>10</Priority>
<MNSMessageResult>
  <MessageId>3ca84a39a9024f19853b21be9cf9****</MessageId>
</MNSMessageResult>
<TemplateList>
  <Video>
    <Bufsize>5000</Bufsize>
    <Degrain>5</Degrain>
    <BitrateBnd>
      <Max>20</Max>
      <Min>10</Min>
    </BitrateBnd>
    <PixFmt>yuvj420p</PixFmt>
    <Codec>H.264</Codec>
    <Height>1880</Height>
    <Qscale>15</Qscale>
    <Bitrate>10</Bitrate>
    <Maxrate>10</Maxrate>
    <Profile>baseline</Profile>
    <Crf>27</Crf>
    <Gop>1</Gop>
    <Width>1990</Width>
    <Fps>60</Fps>
    <Preset>medium</Preset>
    <ScanMode>progressive</ScanMode>
  </Video>
  <TransConfig>
    <TransMode>onepass</TransMode>
  </TransConfig>
  <State>Normal</State>
  <MuxConfig>
    <Gif>
      <FinalDelay>0</FinalDelay>
      <Loop>0</Loop>
    </Gif>
    <Segment>
      <Duration>60</Duration>
    </Segment>
  </MuxConfig>
  <Name>FLV-UD</Name>
  <Audio>
    <Profile>aac_low</Profile>
    <Codec>mp3</Codec>
    <Samplerate>32000</Samplerate>
    <Qscale>10</Qscale>
    <Channels>1</Channels>
    <Bitrate>8</Bitrate>
  </Audio>
  <Id>S00000000-00****</Id>
  <Container>
```

```

        <Format>flv</Format>
    </Container>
</TemplateList>
<UserData>testid-001</UserData>
<InputFile>
    <Object>example.flv</Object>
    <Location>oss-cn-hangzhou</Location>
    <Bucket>example-bucket</Bucket>
</InputFile>
<PipelineId>bb558c1cc25b45309aab5be44d19****</PipelineId>
<Id>57f6aa3f84824309bcb67231b40****</Id>
</AnalysisJob>
</SubmitAnalysisJobResponse>

```

JSON **format**

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "B52658D4-07AB-43CD-82B0-210958A65E23",
  "AnalysisJob": {
    "CreationTime": "2014-01-10T12:00:00Z",
    "Percent": 100,
    "State": "Success",
    "AnalysisConfig": {
      "QualityControl": {
        "MethodStreaming": "network",
        "RateQuality": "50"
      },
      "PropertiesControl": {
        "Deinterlace": "Force",
        "Crop": {
          "Top": "8",
          "Width": "8",
          "Height": "8",
          "Left": "8",
          "Mode": "Auto"
        }
      }
    }
  },
  "Message": "The resource operated \\\"PipelineId\\\" cannot be found",
  "Priority": "10",
  "MNSMessageResult": {
    "MessageId": "3ca84a39a9024f19853b21be9cf9****",
  },
  "TemplateList": [
    {
      "Video": {
        "Bufsize": "5000",
        "Degrain": "5",
        "BitrateBnd": {
          "Max": "20",
          "Min": "10"
        }
      }
    }
  ]
}

```

```
{
  "PixFmt": "yuvj420p",
  "Codec": "H.264",
  "Height": "1880",
  "Qscale": "15",
  "Bitrate": "10",
  "Maxrate": "10",
  "Profile": "baseline",
  "Crf": "27",
  "Gop": "1",
  "Width": "1990",
  "Fps": "60",
  "Preset": "medium",
  "ScanMode": "progressive"
},
"TransConfig": {
  "TransMode": "onepass"
},
"State": "Normal",
"MuxConfig": {
  "Gif": {
    "FinalDelay": "0",
    "Loop": "0"
  },
  "Segment": {
    "Duration": "60"
  }
},
"Name": "FLV-UD",
"Audio": {
  "Profile": "aac_low",
  "Codec": "mp3",
  "Samplerate": "32000",
  "Qscale": "10",
  "Channels": "1",
  "Bitrate": "8"
},
"Id": "S000000000-00****",
"Container": {
  "Format": "flv"
}
},
"UserData": "testid-001",
"InputFile": {
  "Object": "example.flv",
  "Location": "oss-cn-hangzhou",
  "Bucket": "example-bucket"
},
"PipelineId": "bb558c1cc25b45309aab5be44d19****",
"Id": "57f6aa3f84824309bcba67231b40****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

6.2. QueryAnalysisJobList

Queries one or more template analysis jobs.

Usage notes

You can call this operation to query up to 10 template analysis jobs at a time.

QPS limit

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limit](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	QueryAnalysisJobList	The operation that you want to perform. Set the value to QueryAnalysisJobList .
AnalysisJobIds	String	Yes	bb558c1cc25b45309aab5be44d19****	The IDs of the template analysis jobs. - You can query up to 10 jobs at a time. - Separate multiple IDs with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	5CA6E020-4102-4FFF-AA56-5ED7ECD811A1	The ID of the request.
AnalysisJobList	Array of AnalysisJob		The IDs of the template analysis jobs.
AnalysisJob			

Parameter	Type	Example	Description
CreationTime	String	2014-01-10T12:00:00Z	The time when the job was created.
Percent	Long	86	The transcoding progress.
State	String	Success	The status of the job. Valid values: • Submitted: The job has been submitted. • Analyzing: The job is being run. • Success: The job is successful. • Fail: The job fails.
AnalysisConfig	Object		The job configuration.
QualityControl	Object		The quality control on the job output.
MethodStreaming	String	network	The playback mode. Valid values: • network: online playback • local: playback on on-premises devices • Default value: network.
RateQuality	String	25	The quality level of the job output. Default value: 25.
PropertiesControl	Object		The control on the attributes of the job output.
Deinterlace	String	Auto	Indicates whether deinterlacing was forced to run. Valid values: • Auto: Deinterlacing was automatically run. • Force: Deinterlacing was forced to run. • None: Deinterlacing was forced not to run.
Crop	Object		The cropping configuration of video images.

Parameter	Type	Example	Description
Top	String	8	The top margin that was cropped out.  Note This parameter is invalid if the Mode parameter is set to Auto or None.
Width	String	8	The width of the video after the margins were cropped out.  Note This parameter is invalid if the Mode parameter is set to Auto or None.
Height	String	8	The height of the video after the margins were cropped out.  Note This parameter is invalid if the Mode parameter is set to Auto or None.
Left	String	8	The left margin that was cropped out.  Note This parameter is invalid if the Mode parameter is set to Auto or None.
Mode	String	Auto	The cropping mode. Valid values: Valid values: • Auto: Cropping was automatically run. • Force: Cropping was forced to run. • None: Cropping was forced not to run. • This parameter is required if the value of the Crop parameter is not an empty JSON object.

Parameter	Type	Example	Description
Message	String	The resource operated \"PipelineId\" cannot be found	The error message returned when the job fails.
Priority	String	8	The priority of the job in the MPS queue to which the job is added. - Valid values: 1 to 10. A value of 10 indicates the highest priority. - Default value: 10.
MNSMessageResult	Object		The message sent by Message Service (MNS) to notify the user of the job result.
MessageId	String	3ca84a39a9024f19853b21be9cf9****	The ID of the success message. This parameter is not returned if the job fails.
ErrorMessage	String	The resource operated \"PipelineId\" cannot be found	The error message returned when the job fails. This parameter is not returned if the job is successful.
ErrorCode	String	InvalidParameter.ResourceNotFound	The error code returned when the job fails. This parameter is not returned if the job is successful.
TemplateList	Array of Template		The list of matched preset templates.
Template			
Video	Object		The video codec configuration.
Bufsize	String	6000	The size of the buffer. - Unit: KB. - Default value: 6000.
Degrain	String	5	The level of the independent denoising algorithm.
BitrateBnd	Object		The average bit rate range of the video.

Parameter	Type	Example	Description
Max	String	1500	The upper limit of the total bitrate. Unit: Kbit/s.
Min	String	800	The lower limit of the total bitrate. Unit: Kbit/s.
PixFmt	String	yuv420p	The pixel format for video color encoding. Valid values: standard pixel formats such as yuv420p and yuvj420p.
Codec	String	H.264	The video codec format. Valid values: H.264 and H.265. Default value: H.264 .
Height	String	720	The height of the video. - Unit: pixel. - Default value: the original height of the video.
Qscale	String	15	The level of quality control on the video.
Bitrate	String	1000	The average bitrate of the video. Unit: Kbit/s.
Maxrate	String	2000	The maximum video bitrate. - Valid values: 10 to 50000. - Unit: Kbit/s.
Profile	String	high	The codec profile. Valid values: baseline: applicable to mobile devices. main: applicable to standard-definition devices. high: applicable to high-definition devices. - Default value: high.

Parameter	Type	Example	Description
Crf	String	26	The constant rate factor, which is the default quality control setting. • Default value when the Codec parameter is set to H.264: 23. Default value when the Codec parameter is set to H.265: 26. • If this parameter is returned, the setting of the Bitrate parameter is invalid.
Gop	String	250	The maximum number of frames between two keyframes. Default value: 250.
Width	String	1280	The width of the video. • Unit: pixel. • Default value: the original width of the video.
Fps	String	25	The frame rate. • The value is 60 if the frame rate of the input file exceeds 60. • Default value: the frame rate of the input file.
Preset	String	medium	The preset video algorithm. Valid values: veryfast, fast, medium, slow, and slower. Default value: medium.
ScanMode	String	interlaced	The scan mode. Valid values: • interlaced: An interlaced scan was performed. • progressive: A progressive scan was performed.
TransConfig	Object		The general transcoding configuration.
TransMode	String	onepass	The transcoding mode. Default value: onepass. Valid values: • onepass • twopass • CBR

Parameter	Type	Example	Description
State	String	Normal	The status of the template. Valid values: Normal: The template is in the normal state. Deleted: The template is deleted.
MuxConfig	Object		The transmuxing configuration.
Gif	Object		The GIF format.
FinalDelay	String	0	The interval between two consecutive loops for the GIF format. Unit: 0.01s. For example, a value of 500 indicates 5 seconds.
Loop	String	0	The number of loops for the GIF or WebP format. Default value: 0.
Segment	Object		The segment configuration.
Duration	String	10	The length of the segment. Unit: seconds.
Name	String	FLV-UD	The name of the template.
Audio	Object		The audio codec configuration.
Profile	String	aac_low	The codec profile of the audio file. Valid values when the Codec parameter is set to aac : aac_low aac_he aac_he_v2 aac_ld aac_eld
Codec	String	aac	The audio codec format. Default value: aac . Valid values: aac mp3 vorbis flac

Parameter	Type	Example	Description
Samplerate	String	44100	The sampling rate. - Unit: Hz. - Default value: 44100.
Qscale	String	15	The level of quality control on the audio.
Channels	String	2	The number of sound channels. Default value: 2.
Bitrate	String	128	The audio bitrate of the output file. - Valid values: 8 to 1000. - Unit: Kbit/s. - Default value: 128.
Id	String	S000000000-00****	The ID of the transcoding template.
Container	Object		The container configuration.
Format	String	flv	The container format.
UserData	String	testid-001	The custom data.
Code	String	InvalidParameter.ResourceNotFound	The error code returned when the job fails.
InputFile	Object		The information about the job input.
Object	String	example.flv	The name of the input file uploaded to the Object Storage Service (OSS) bucket.
Location	String	oss-cn-hangzhou	The ID of the OSS region.

Parameter	Type	Example	Description
Bucket	String	example-bucket	The name of the OSS bucket to which the input file is uploaded.
PipelineId	String	bb558c1cc25b45309aab5be44d19****	The ID of the ApsaraVideo Media Processing (MPS) queue to which the job is added.
Id	String	57f6aa3f84824309bcb67231b406****	The ID of the template analysis job.
NonExistAnalysisJobIds	Array of String	null	The IDs of the template analysis jobs that do not exist. If all queried job IDs exist, the response does not contain this parameter.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=QueryAnalysisJobList
&AnalysisJobIds=bb558c1cc25b45309aab5be44d19****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<QueryAnalysisJobListResponse>
  <RequestId>5CA6E020-4102-4FFF-AA56-5ED7ECD811A1</RequestId>
  <AnalysisJobList>
    <CreationTime>2014-01-10T12:00:00Z</CreationTime>
    <Percent>86</Percent>
    <State>Success</State>
    <AnalysisConfig>
      <QualityControl>
        <MethodStreaming>network</MethodStreaming>
        <RateQuality>25</RateQuality>
      </QualityControl>
      <PropertiesControl>
        <Deinterlace>Auto</Deinterlace>
        <Crop>
          <Top>8</Top>
          <Width>8</Width>
          <Height>8</Height>
          <Left>8</Left>
          <Mode>Auto</Mode>
        </Crop>
      </PropertiesControl>
    </AnalysisConfig>
```

```

<Message>The resource operated \"PipelineId\" cannot be found</Message>
<Priority>8</Priority>
<MNSMessageResult>
  <MessageId>3ca84a39a9024f19853b21be9cf9****</MessageId>
</MNSMessageResult>
<TemplateList>
  <Video>
    <Bufsize>6000</Bufsize>
    <Degrain>5</Degrain>
    <BitrateBnd>
      <Max>1500</Max>
      <Min>800</Min>
    </BitrateBnd>
    <PixFmt>yuv420p</PixFmt>
    <Codec>H.264</Codec>
    <Height>720</Height>
    <Qscale>15</Qscale>
    <Bitrate>1000</Bitrate>
    <Maxrate>2000</Maxrate>
    <Profile>high</Profile>
    <Crf>26</Crf>
    <Gop>250</Gop>
    <Width>1280</Width>
    <Fps>25</Fps>
    <Preset>medium</Preset>
    <ScanMode>interlaced</ScanMode>
  </Video>
  <TransConfig>
    <TransMode>onepass</TransMode>
  </TransConfig>
  <State>Normal</State>
  <MuxConfig>
    <Gif>
      <FinalDelay>0</FinalDelay>
      <Loop>0</Loop>
    </Gif>
    <Segment>
      <Duration>10</Duration>
    </Segment>
  </MuxConfig>
  <Name>FLV-UD</Name>
  <Audio>
    <Profile>aac_low</Profile>
    <Codec>aac</Codec>
    <Samplerate>44100</Samplerate>
    <Qscale>15</Qscale>
    <Channels>2</Channels>
    <Bitrate>128</Bitrate>
  </Audio>
  <Id>S000000000-00****</Id>
  <Container>
    <Format>flv</Format>
  </Container>
</TemplateList>

```

```
<UserData>testId-001</UserData>
<InputFile>
  <Object>example.flv</Object>
  <Location>oss-cn-hangzhou</Location>
  <Bucket>example-bucket</Bucket>
</InputFile>
<PipelineId>bb558c1cc25b45309aab5be44d19****</PipelineId>
<Id>57f6aa3f84824309bcba67231b406****</Id>
</AnalysisJobList>
<NonExistAnalysisJobIds>null</NonExistAnalysisJobIds>
</QueryAnalysisJobListResponse>
```

JSON **format**

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId": "5CA6E020-4102-4FFF-AA56-5ED7ECD811A1",
  "AnalysisJobList": [
    {
      "CreationTime": "2014-01-10T12:00:00Z",
      "Percent": 86,
      "State": "Success",
      "AnalysisConfig": {
        "QualityControl": {
          "MethodStreaming": "network",
          "RateQuality": "25"
        },
        "PropertiesControl": {
          "Deinterlace": "Auto",
          "Crop": {
            "Top": "8",
            "Width": "8",
            "Height": "8",
            "Left": "8",
            "Mode": "Auto"
          }
        }
      },
      "Message": "The resource operated \\\"PipelineId\\\" cannot be found",
      "Priority": "8",
      "MNSMessageResult": {
        "MessageId": "3ca84a39a9024f19853b21be9cf9****",
      },
      "TemplateList": [
        {
          "Video": {
            "Bufsize": "6000",
            "Degrain": "5",
            "BitrateBnd": {
              "Max": "1500",
              "Min": "800"
            },
            "PixFmt": "yuv420p",
```

```
        "Codec": "H.264",
        "Height": "720",
        "Qscale": "15",
        "Bitrate": "1000",
        "Maxrate": "2000",
        "Profile": "high",
        "Crf": "26",
        "Gop": "250",
        "Width": "1280",
        "Fps": "25",
        "Preset": "medium",
        "ScanMode": "interlaced"
    },
    "TransConfig": {
        "TransMode": "onepass"
    },
    "State": "Normal",
    "MuxConfig": {
        "Gif": {
            "FinalDelay": "0",
            "Loop": "0"
        },
        "Segment": {
            "Duration": "10"
        }
    },
    "Name": "FLV-UD",
    "Audio": {
        "Profile": "aac_low",
        "Codec": "aac",
        "Samplerate": "44100",
        "Qscale": "15",
        "Channels": "2",
        "Bitrate": "128"
    },
    "Id": "S000000000-00****",
    "Container": {
        "Format": "flv"
    }
},
"UserData": "testid-001",
"InputFile": {
    "Object": "example.flv",
    "Location": "oss-cn-hangzhou",
    "Bucket": "example-bucket"
},
"PipelineId": "bb558clcc25b45309aab5be44d19****",
"Id": "57f6aa3f84824309bcba67231b406****"
}

],
"NonExistAnalysisJobIds": [
    "null"
]
```

```
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

7.Transcoding APIs

7.1.

-
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 Note

 Note

Action	String		SubmitJobs	
Input	String		<pre>{ "Bucket": "exampleBucket", "Location": "oss-cn-hangzhou", "Object": "example.flv" }</pre>	 Note
Outputs	String		<pre>[{ "OutputObject": "exampleOutput.mp4", "TemplateId": "6181666213ab41b9bc21da8ff5ff****", "WaterMarks": [{ "InputFile": { "Bucket": "exampleBucket", "Location": "oss-cn-hangzhou", "Object": "image_01.png", "WaterMarkTemplateId": "9b772ce2740d4d55876d8b542d47****" }, "UserData": "testid-001" }] }]</pre>	
OutputBucket	String		exampleBucket	
OutputLocation	String		oss-cn-hangzhou	

PipelineId	String		dd3dae411e7040 30b921e52698e5 ****	• •
JobResultList	Array of JobResult			
JobResult				
Job	Object			
CreationTime	String	2014-01-10T12:00:00Z		
Percent	Long	100		
FinishTime	String	2014-01-10T12:20:00Z		
State	String	Submitted	• •	
JobId	String	31fa3c9ca8134f9cec 2b4b0b0f78****		
Code	String	InternalServerError		
Message	String	The operation has failed due to some unknown error, exception or failure.		
Output	Object			
Video	Object			 Note
Bufsize	String	1000	• •	
Degrain	String	5		
BitrateBnd	Object			
Max	String	20		
Min	String	10		

PixFmt	String	yuvj420p	• •
Pad	String	1280:800:0:140	• •
Codec	String	H.264	• •
Height	String	1280	• •
Qscale	String	15	
Crop	String	1280:800:0:140	• •
Bitrate	String	10	
Maxrate	String	10	
MaxFps	String	15	
Profile	String	baseline	 Note • • •
Crf	String	22	• •
Gop	String	1	• •
Width	String	1080	• •

Fps	String	60	• • •
Preset	String	veryfast	• • • • •
ScanMode	String	interlaced	• • •
ResoPriority	String	1	
TransConfig	Object		 Note
IsCheckAudioBit rate	String	false	• • •
TransMode	String	onepass	
IsCheckReso	String	false	• • •
IsCheckVideoBit rateFail	String	true	• • •
AdjDarMethod	String	crop	
IsCheckVideoBit rate	String	false	• • •

IsCheckResoFail	String	false	• • •
IsCheckAudioBitrateFail	String	true	• •
Encryption	Object		
Type	String	hls-aes-128	
Key	String	encryptionkey128	
KeyType	String	Base64	
Id	String	31fa3c9ca8134f9cec2b4b0b0f78****	
KeyUri	String	https://1161758785****.cn-shanghai.fc.aliyuncs.com/2016-08-15/proxy/HLS-decryptServer/decyp tServer/	
SkipCnt	String	3	
WaterMarkList	Array of WaterMark		
WaterMark			
Type	String	Image	• •
ReferPos	String	TopRight	• • • •
Dx	String	1	• ○ ○ • ○ ○

Width	String	1080	• ○ ○ • ○ ○
Height	String	1280	• ○ ○ • ○ ○
InputFile	Object		
Object	String	example-logo-****.png	
Location	String	oss-cn-hangzhou	
Bucket	String	example-bucket	
WaterMarkTemplateId	String	88c6ca184c0e47098a5b665e2a12****	
Dy	String	1	• ○ ○ • ○ ○
WaterMarkConfigUrl	String	http://example.com/configure	
DeWatermark	String	{ "0": [{ "l": 10, "t": 10, "w": 10, "h": 10, "l": 100, "t": 0.1, "w": 10, "h": 10 }], "128000": [], "250000": [{ "l": 0.2, "t": 0.1, "w": 0.01, "h": 0.05 }] }	
M3U8NonStandardSupport	Object		
TS	Object		

SizeSupport	Boolean	true	• •
Md5Support	Boolean	true	• •
Priority	String	5	• •
Audio	Object		? Note
Profile	String	aac_low	? Note
Codec	String	aac	• •
Samplerate	String	32000	• • • ? Note
Qscale	String	15	
Channels	String	6	• • •
Volume	Object		
Method	String	auto	• • •
Level	String	-20	• •

Bitrate	String	128	• •
AudioStreamMap	String	0:a:0	• • •
MergeList	Array of Merge		
Merge			
Start	String	00000.50	•  •
RoleArn	String	acs:ram::<your uid>:role/<your role name>	
MergeURL	String	http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/example-object-****.flv	•  •
Duration	String	00000.20	•  •
SuperReso	Object		
IsHalfSample	String	true	• •
UserData	String	example data	
OutSubtitleList	Array of OutSubtitle		
OutSubtitle			
Map	String	0:v:0	
OutSubtitleFile	Object		
RoleArn	String	acs:ram::<your uid>:role/<your role name>	

Object	String	example-output.flv	
Location	String	oss-cn-hangzhou	
Bucket	String	example-bucket-****	
Success	Boolean	true	• •
Message	String		
DigiWaterMark	Object		
Type	String	Image	• •
Alpha	String	1.0	• •
InputFile	Object		
Object	String	example-input.flv	
Location	String	oss-cn-hangzhou	
Bucket	String	example-bucket-****	
VideoStreamMap	String	0:a:0	• • •
OutputFile	Object		
RoleArn	String	acs:ram::<your uid>:role/<your role name>	
Object	String	example-output.flv	
Location	String	oss-cn-hangzhou	
Bucket	String	example-bucket-****	
AmixList	Array of Amix		
Amix			

Map	String	0:a:0	
Start	String	0	
AmixURL	String	https://outpu***.oss-cn-shanghai.aliyuncs.com/mp4-to-mp3%5E1571025263578816%40.mp3	•  •
Duration	String	20	
MixDurMode	String	long	• • •
Rotate	String	180	
Container	Object		
Format	String	flv	• • • • • • •
Clip	Object		
TimeSpan	Object		
Seek	String	01:59:59.999	•  • 
Duration	String	01:00:59.999	•  • 
MergeConfigUrl	String	`{"MergeList": [{"MergeURL": "http://exampleBucket***.oss-cn-hangzhou.aliyuncs.com/video_01.mp4"}]}	• • • • 

OpeningList	Array of Opening		
Opening			
openUrl	String	http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/opening_01.flv	
Start	String	1	• •
Width	String	1920	• • • •
Height	String	1080	• • • •
MuxConfig	Object		
Webp	Object		
Loop	String	0	
Gif	Object		
FinalDelay	String	0	
DitherMode	String	bayer	
Loop	String	0	
IsCustomPalette	String	false	• •
Segment	Object		
Duration	String	20	• •
TailSlateList	Array of TailSlate		

TailSlate			
Start	String	1	
BgColor	String	White	
IsMergeAudio	Boolean	false	• •
Width	String	1920	• • •
Height	String	1080	• • •
BlendDuration	String	2	
TailUrl	String	http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/opening_01.flv	
TemplateId	String	S00000000-000010	
SubtitleConfig	Object		
ExtSubtitleList	Array of ExtSubtitle		
ExtSubtitle			
CharEnc	String	UTF-8	• •  Note
FontName	String	"WenQuanYi Zen Hei", "Yuanti SC Regular", "SimSun"	
Input	Object		
Object	String	example-output.flv	
Location	String	oss-cn-hangzhou	

Bucket	String	example-bucket-****	
SubtitleList	Array of Subtitle		
Subtitle			
Map	String	0:a:0	
Properties	Object		
Width	String	1280	
Height	String	720	
Duration	String	55	
Fps	String	25	
Bitrate	String	1000	
FileFormat	String	QuickTime / MOV	
Streams	Object		
VideoStreamList	Array of VideoStream		
VideoStream			
Index	String	0	
Timebase	String	1/24000	
AvgFPS	String	23.976025	
PixFmt	String	yuv420p	
Sar	String	1:1	
Lang	String	eng	
CodecLongName	String	H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10	
Height	String	720	
NumFrames	String	25	
Bitrate	String	1496.46	

CodecTagString	String	avc1	
HasBFrames	String	2	
Profile	String	high	
StartTime	String	0.000000	
NetworkCost	Object		
PreloadTime	String	8	
AvgBitrate	String	100	
CostBandwidth	String	10	
Dar	String	16:9	
CodecName	String	h264	
Width	String	1280	
Duration	String	17.225542	
Fps	String	23.976025	
CodecTag	String	0x31637661	
CodecTimeBase	String	1001/48000	
Level	String	51	
AudioStreamList	Array of AudioStream		
AudioStream			
Timebase	String	1/44100	
Index	String	1	
SampleFmt	String	fltp	
ChannelLayout	String	stereo	
Lang	String	eng	
Samplerate	String	44100	
CodecLongName	String	AAC (Advanced Audio Coding)	

Channels	String	2	
NumFrames	String	25	
Bitrate	String	128.806	
CodecTagString	String	mp4a	
StartTime	String	0.000000	
CodecName	String	aac	
Duration	String	17.159546	
CodecTag	String	0x6134706d	
CodecTimeBase	String	1/44100	
SubtitleStreamList	Array of SubtitleStream		
SubtitleStream			
Index	String	1	
Lang	String	eng	
Format	Object		
StartTime	String	0.000000	
NumPrograms	String	0	
Size	String	3509895	
NumStreams	String	2	
FormatLongName	String	QuickTime / MOV	
Duration	String	55	
Bitrate	String	1000	
FormatName	String	mov	
FileSize	String	3509895	
PipelineId	String	88c6ca184c0e47098a5b665e2a126797	
Input	Object		

Object	String	example.flv	
Location	String	oss-cn-hangzhou	
Bucket	String	example-bucket-****	
MNSMessageResult	Object		
MessageId	String	123	
ErrorMessage	String	The resource operated "%s" cannot be found.	
ErrorCode	String	InvalidParameter.ResourceNotFound	
Success	Boolean	true	• •
Code	String	InvalidParameter.NullValue	
Message	String	The specified parameter "%s" cannot be null.	
RequestId	String	25818875-5F78-4A45571F6-D73936451234	

```

http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=SubmitJobs
&Input={"Bucket":"exampleBucket","Location":"oss-cn-hangzhou","Object":"example.flv"}
&Outputs=[{"OutputObject":"exampleOutput.mp4","TemplateId":"6181666213ab41b9bc21da8ff5ff****",
"WaterMarks":[{"InputFile":{"Bucket":"exampleBucket","Location":"oss-cn-hangzhou","Object":"image_01.png"},
"WaterMarkTemplateId":"9b772ce2740d4d55876d8b542d47****"}],"UserData":{"testid-001"}}]
&OutputBucket=exampleBucket
&OutputLocation=oss-cn-hangzhou
&PipelineId=dd3dae411e704030b921e52698e5****

```

```

HTTP/1.1 200 OK
Content-Type:application/xml
<SubmitJobsResponse>
  <JobResultList>
    <Job>
      <CreationTime>2014-01-10T12:00:00Z</CreationTime>

```



```

    <StartTime>2014-01-10T12:20:00Z</StartTime>
    <Percent>100</Percent>
    <FinishTime>2014-01-10T12:20:00Z</FinishTime>
    <State>Submitted</State>
    <JobId>31fa3c9ca8134f9cec2b4b0b0f78****</JobId>
    <Code>InternalError</Code>
    <Message>The operation has failed due to some unknown error, exception or failure.</Message>
    <Output>
        <Video>
            <Bufsize>1000</Bufsize>
            <Degrain>5</Degrain>
            <BitrateBnd>
                <Max>20</Max>
                <Min>10</Min>
            </BitrateBnd>
            <PixFmt>yuvj420p</PixFmt>
            <Pad>1280:800:0:140</Pad>
            <Codec>H.264</Codec>
            <Height>1280</Height>
            <Qscale>15</Qscale>
            <Crop>1280:800:0:140</Crop>
            <Bitrate>10</Bitrate>
            <Maxrate>10</Maxrate>
            <MaxFps>15</MaxFps>
            <Profile>baseline</Profile>
            <Crf>22</Crf>
            <Gop>1</Gop>
            <Width>1080</Width>
            <Fps>60</Fps>
            <Preset>veryfast</Preset>
            <ScanMode>interlaced</ScanMode>
            <ResoPriority>1</ResoPriority>
        </Video>
        <TransConfig>
            <IsCheckAudioBitrate>>false</IsCheckAudioBitrate>
            <TransMode>onepass</TransMode>
            <IsCheckReso>>false</IsCheckReso>
            <IsCheckVideoBitrateFail>>true</IsCheckVideoBitrateFail>
            <AdjDarMethod>crop</AdjDarMethod>
            <IsCheckVideoBitrate>>false</IsCheckVideoBitrate>
            <IsCheckResoFail>>false</IsCheckResoFail>
            <IsCheckAudioBitrateFail>>true</IsCheckAudioBitrateFail>
        </TransConfig>
        <Encryption>
            <Type>hls-aes-128</Type>
            <Key>encryptionkey128</Key>
            <KeyType>Base64</KeyType>
            <Id>31fa3c9ca8134f9cec2b4b0b0f78****</Id>
            <KeyUri>https://1161758785****.cn-shanghai.fc.aliyuncs.com/2016-08-15/proxy/HLS-decryptServer/decryptServer/</KeyUri>
            <SkipCnt>3</SkipCnt>
        </Encryption>
        <WaterMarkList>
            <Type>Image</Type>

```

```

        <ReferPos>TopRight</ReferPos>
        <Dx>1</Dx>
        <Width>1080</Width>
        <Height>1280</Height>
        <InputFile>
            <Object>example-logo-****.png</Object>
            <Location>oss-cn-hangzhou</Location>
            <Bucket>example-bucket</Bucket>
        </InputFile>
        <WaterMarkTemplateId>88c6ca184c0e47098a5b665e2a12****</WaterMarkTemplat
eId>

        <Dy>1</Dy>
    </WaterMarkList>
    <WaterMarkConfigUrl>http://example.com/configure</WaterMarkConfigUrl>
    <DeWatermark>{"0": [{"l": 10, "t": 10, "w": 10, "h": 10}, {"l": 100, "t": 0.1, "w
": 10, "h": 10}], "128000": [], "250000": [{"l": 0.2, "t": 0.1, "w": 0.01, "h": 0.05}]}</DeWaterm
ark>

    <M3U8NonStandardSupport>
        <TS>
            <SizeSupport>true</SizeSupport>
            <Md5Support>true</Md5Support>
        </TS>
    </M3U8NonStandardSupport>
    <Priority>5</Priority>
    <Audio>
        <Profile>aac_low</Profile>
        <Codec>aac</Codec>
        <Samplerate>32000</Samplerate>
        <Qscale>15</Qscale>
        <Channels>6</Channels>
        <Volume>
            <Method>auto</Method>
            <Level>-20</Level>
        </Volume>
        <Bitrate>128</Bitrate>
    </Audio>
    <AudioStreamMap>0:a:0</AudioStreamMap>
    <MergeList>
        <Start>00000.50</Start>
        <RoleArn>acs:ram::&lt;your uid>;role/&lt;your role name>;</RoleArn
>

        <MergeURL>http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/examp
le-object-****.flv</MergeURL>
        <Duration>00000.20</Duration>
    </MergeList>
    <SuperReso>
        <IsHalfSample>true</IsHalfSample>
    </SuperReso>
    <UserData>example data</UserData>
    <OutSubtitleList>
        <Map>0:v:0</Map>
        <OutSubtitleFile>
            <RoleArn>acs:ram::&lt;your uid>;role/&lt;your role name>;</Rol
eArn>

```

```

        <Object>example-output.flv</Object>
        <Location>oss-cn-hangzhou</Location>
        <Bucket>example-bucket-****</Bucket>
    </OutSubtitleFile>
    <Success>true</Success>
</OutSubtitleList>
<DigiWaterMark>
    <Type>Image</Type>
    <Alpha>1.0</Alpha>
    <InputFile>
        <Object>example-intput.flv</Object>
        <Location>oss-cn-hangzhou</Location>
        <Bucket>example-bucket-****</Bucket>
    </InputFile>
</DigiWaterMark>
<VideoStreamMap>0:a:0</VideoStreamMap>
<OutputFile>
    <RoleArn>acs:ram::&lt;your uid>;:role/&lt;your role name>;</RoleArn
>

    <Object>example-output.flv</Object>
    <Location>oss-cn-hangzhou</Location>
    <Bucket>example-bucket-****</Bucket>
</OutputFile>
<AmixList>
    <Map>0:a:0</Map>
    <Start>0</Start>
    <AmixURL>https://outpu***.oss-cn-shanghai.aliyuncs.com/mp4-to-mp3%5E157
1025263578816%40.mp3</AmixURL>
    <Duration>20</Duration>
    <MixDurMode>long</MixDurMode>
</AmixList>
<Rotate>180</Rotate>
<Container>
    <Format>flv</Format>
</Container>
<Clip>
    <TimeSpan>
        <Seek>01:59:59.999</Seek>
        <Duration>01:00:59.999</Duration>
    </TimeSpan>
</Clip>
<MergeConfigUrl>`{"MergeList":[{"MergeURL":"http://exampleBucket****.oss-cn
-hangzhou.aliyuncs.com/video_01.mp4"}]}</MergeConfigUrl>
<OpeningList>
    <openUrl>http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/openin
g_01.flv</openUrl>
    <Start>1</Start>
    <Width>1920</Width>
    <Height>1080</Height>
</OpeningList>
<MuxConfig>
    <Webp>
        <Loop>0</Loop>
    </Webp>

```

```

        <Gif>
            <FinalDelay>0</FinalDelay>
            <DitherMode>bayer</DitherMode>
            <Loop>0</Loop>
            <IsCustomPalette>>false</IsCustomPalette>
        </Gif>
        <Segment>
            <Duration>20</Duration>
        </Segment>
    </MuxConfig>
    <TailSlateList>
        <Start>1</Start>
        <BgColor>White</BgColor>
        <IsMergeAudio>>false</IsMergeAudio>
        <Width>1920</Width>
        <Height>1080</Height>
        <BlendDuration>2</BlendDuration>
        <TailUrl>http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/openin
g_01.flv</TailUrl>
    </TailSlateList>
    <TemplateId>S000000000-000010</TemplateId>
    <SubtitleConfig>
        <ExtSubtitleList>
            <CharEnc>UTF-8</CharEnc>
            <FontName>"WenQuanYi Zen Hei", "Yuanti SC Regular", "SimSun"</FontN
ame>

            <Input>
                <Object>example-output.flv</Object>
                <Location>oss-cn-hangzhou</Location>
                <Bucket>example-bucket-****</Bucket>
            </Input>
        </ExtSubtitleList>
        <SubtitleList>
            <Map>0:a:0</Map>
        </SubtitleList>
    </SubtitleConfig>
    <Properties>
        <Width>1280</Width>
        <Height>720</Height>
        <Duration>55</Duration>
        <Fps>25</Fps>
        <Bitrate>1000</Bitrate>
        <FileFormat>QuickTime / MOV</FileFormat>
        <Streams>
            <VideoStreamList>
                <Index>0</Index>
                <Timebase>1/24000</Timebase>
                <AvgFPS>23.976025</AvgFPS>
                <PixFmt>yuv420p</PixFmt>
                <Sar>1:1</Sar>
                <Lang>eng</Lang>
                <CodecLongName>H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10</Codec
LongName>

                <Height>720</Height>
                <Fps>25</Fps>
            </VideoStreamList>
        </Streams>
    </Properties>

```

```

        <NumFrames>25</NumFrames>
        <Bitrate>1496.46</Bitrate>
        <CodecTagString>avc1</CodecTagString>
        <HasBFrames>2</HasBFrames>
        <Profile>high</Profile>
        <StartTime>0.000000</StartTime>
        <NetworkCost>
            <PreloadTime>8</PreloadTime>
            <AvgBitrate>100</AvgBitrate>
            <CostBandwidth>10</CostBandwidth>
        </NetworkCost>
        <Dar>16:9</Dar>
        <CodecName>h264</CodecName>
        <Width>1280</Width>
        <Duration>17.225542</Duration>
        <Fps>23.976025</Fps>
        <CodecTag>0x31637661</CodecTag>
        <CodecTimeBase>1001/48000</CodecTimeBase>
        <Level>51</Level>
    </VideoStreamList>
    <AudioStreamList>
        <Timebase>1/44100</Timebase>
        <Index>1</Index>
        <SampleFmt>fltp</SampleFmt>
        <ChannelLayout>stereo</ChannelLayout>
        <Lang>eng</Lang>
        <Samplerate>44100</Samplerate>
        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
        <Channels>2</Channels>
        <NumFrames>25</NumFrames>
        <Bitrate>128.806</Bitrate>
        <CodecTagString>mp4a</CodecTagString>
        <StartTime>0.000000</StartTime>
        <CodecName>aac</CodecName>
        <Duration>17.159546</Duration>
        <CodecTag>0x6134706d</CodecTag>
        <CodecTimeBase>1/44100</CodecTimeBase>
    </AudioStreamList>
    <SubtitleStreamList>
        <Index>1</Index>
        <Lang>eng</Lang>
    </SubtitleStreamList>
</Streams>
<Format>
    <StartTime>0.000000</StartTime>
    <NumPrograms>0</NumPrograms>
    <Size>3509895</Size>
    <NumStreams>2</NumStreams>
    <FormatLongName>QuickTime / MOV</FormatLongName>
    <Duration>55</Duration>
    <Bitrate>1000</Bitrate>
    <FormatName>mov</FormatName>
</Format>
<FileSize>3509895</FileSize>
</Properties>

```

```
</Properties>
</Output>
<PipelineId>88c6ca184c0e47098a5b665e2a126797</PipelineId>
<Input>
  <Object>example.flv</Object>
  <Location>oss-cn-hangzhou</Location>
  <Bucket>example-bucket-***</Bucket>
</Input>
<MNSMessageResult>
  <MessageId>123</MessageId>
  <ErrorMessage>The resource operated "%s" cannot be found.</ErrorMessage>
  <ErrorCode>InvalidParameter.ResourceNotFound</ErrorCode>
</MNSMessageResult>
</Job>
<Success>true</Success>
<Code>InvalidParameter.NullValue</Code>
<Message>The specified parameter "%s" cannot be null.</Message>
</JobResultList>
<RequestId>25818875-5F78-4A45S71F6-D73936451234</RequestId>
</SubmitJobsResponse>
```

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "JobResultList" : [ {
    "Job" : {
      "CreationTime" : "2014-01-10T12:00:00Z",
      "Percent" : 100,
      "FinishTime" : "2014-01-10T12:20:00Z",
      "State" : "Submitted",
      "JobId" : "31fa3c9ca8134f9cec2b4b0b0f78****",
      "Code" : "InternalError",
      "Message" : "The operation has failed due to some unknown error, exception or failure
.",
      "Output" : {
        "Video" : {
          "Bufsize" : "1000",
          "Degrain" : "5",
          "BitrateBnd" : {
            "Max" : "20",
            "Min" : "10"
          },
          ,
          "PixFmt" : "yuvj420p",
          "Pad" : "1280:800:0:140",
          "Codec" : "H.264",
          "Height" : "1280",
          "Qscale" : "15",
          "Crop" : "1280:800:0:140",
          "Bitrate" : "10",
          "Maxrate" : "10",
          "MaxFps" : "15",
          "Profile" : "baseline",
```

```

    "Crf" : "22",
    "Gop" : "1",
    "Width" : "1080",
    "Fps" : "60",
    "Preset" : "veryfast",
    "ScanMode" : "interlaced",
    "ResoPriority" : "1"
  },
  "TransConfig" : {
    "IsCheckAudioBitrate" : "false",
    "TransMode" : "onepass",
    "IsCheckReso" : "false",
    "IsCheckVideoBitrateFail" : "true",
    "AdjDarMethod" : "crop",
    "IsCheckVideoBitrate" : "false",
    "IsCheckResoFail" : "false",
    "IsCheckAudioBitrateFail" : "true"
  },
  "Encryption" : {
    "Type" : "hls-aes-128",
    "Key" : "encryptionkey128",
    "KeyType" : "Base64",
    "Id" : "31fa3c9ca8134f9cec2b4b0b0f78****",
    "KeyUri" : "https://1161758785****.cn-shanghai.fc.aliyuncs.com/2016-08-15/proxy/HLS-decryptServer/decryptServer/",
    "SkipCnt" : "3"
  },
  "WaterMarkList" : [ {
    "Type" : "Image",
    "ReferPos" : "TopRight",
    "Dx" : "1",
    "Width" : "1080",
    "Height" : "1280",
    "InputFile" : {
      "Object" : "example-logo-****.png",
      "Location" : "oss-cn-hangzhou",
      "Bucket" : "example-bucket"
    },
    "WaterMarkTemplateId" : "88c6ca184c0e47098a5b665e2a12****",
    "Dy" : "1"
  } ],
  "WaterMarkConfigUrl" : "http://example.com/configure",
  "DeWatermark" : "{ \"0\": [{ \"1\": 10, \"t\": 10, \"w\": 10, \"h\": 10 }, { \"1\": 100, \"t\": 0.1, \"w\": 10, \"h\": 10 }, { \"128000\": [], \"250000\": [{ \"1\": 0.2, \"t\": 0.1, \"w\": 0.01, \"h\": 0.05 } ] } ]",
  "M3U8NonStandardSupport" : {
    "TS" : {
      "SizeSupport" : true,
      "Md5Support" : true
    }
  },
  "Priority" : "5",
  "Audio" : {
    "Profile" : "aac_low",
    "Codec" : "aac"
  }
}

```

```

        "Codec" : "aac",
        "Samplerate" : "32000",
        "Qscale" : "15",
        "Channels" : "6",
        "Volume" : {
            "Method" : "auto",
            "Level" : "-20"
        },
        "Bitrate" : "128"
    },
    "AudioStreamMap" : "0:a:0",
    "MergeList" : [ {
        "Start" : "00000.50",
        "RoleArn" : "acs:ram::<your uid>:role/<your role name>",
        "MergeURL" : "http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/example-object-****.flv",
        "Duration" : "00000.20"
    } ],
    "SuperReso" : {
        "IsHalfSample" : "true"
    },
    "UserData" : "example data",
    "OutSubtitleList" : [ {
        "Map" : "0:v:0",
        "OutSubtitleFile" : {
            "RoleArn" : "acs:ram::<your uid>:role/<your role name>",
            "Object" : "example-output.flv",
            "Location" : "oss-cn-hangzhou",
            "Bucket" : "example-bucket-****"
        },
        "Success" : true,
    } ],
    "DigiWaterMark" : {
        "Type" : "Image",
        "Alpha" : "1.0",
        "InputFile" : {
            "Object" : "example-input.flv",
            "Location" : "oss-cn-hangzhou",
            "Bucket" : "example-bucket-****"
        }
    },
    "VideoStreamMap" : "0:a:0",
    "OutputFile" : {
        "RoleArn" : "acs:ram::<your uid>:role/<your role name>",
        "Object" : "example-output.flv",
        "Location" : "oss-cn-hangzhou",
        "Bucket" : "example-bucket-****"
    },
    "AmixList" : [ {
        "Map" : "0:a:0",
        "Start" : "0",
        "AmixURL" : "https://output-****.oss-cn-shanghai.aliyuncs.com/mp4-to-mp3%5E1571025263578816%40.mp3",
        "Duration" : "20",
        "MixDurMode" : "long"
    } ]

```



```

    } ],
    "Rotate" : "180",
    "Container" : {
        "Format" : "flv"
    },
    "Clip" : {
        "TimeSpan" : {
            "Seek" : "01:59:59.999",
            "Duration" : "01:00:59.999"
        }
    },
    "MergeConfigUrl" : "`{\"MergeList\": [{\"MergeURL\": \"http://exampleBucket****.oss-cn-hangzhou.aliyuncs.com/video_01.mp4\"}]}`",
    "OpeningList" : [ {
        "openUrl" : "http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/opening_01.flv",
        "Start" : "1",
        "Width" : "1920",
        "Height" : "1080"
    } ],
    "MuxConfig" : {
        "Webp" : {
            "Loop" : "0"
        },
        "Gif" : {
            "FinalDelay" : "0",
            "DitherMode" : "bayer",
            "Loop" : "0",
            "IsCustomPalette" : "false"
        },
        "Segment" : {
            "Duration" : "20"
        }
    },
    "TailSlateList" : [ {
        "Start" : "1",
        "BgColor" : "White",
        "IsMergeAudio" : false,
        "Width" : "1920",
        "Height" : "1080",
        "BlendDuration" : "2",
        "TailUrl" : "http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/opening_01.flv"
    } ],
    "TemplateId" : "S000000000-000010",
    "SubtitleConfig" : {
        "ExtSubtitleList" : [ {
            "CharEnc" : "UTF-8",
            "FontName" : "\"WenQuanYi Zen Hei\", \"Yuanti SC Regular\", \"SimSun\"",
            "Input" : {
                "Object" : "example-output.flv",
                "Location" : "oss-cn-hangzhou",
                "Bucket" : "example-bucket-****"
            }
        }
    ]
}

```

```
    } ],
    "SubtitleList" : [ {
      "Map" : "0:a:0"
    } ]
  },
  "Properties" : {
    "Width" : "1280",
    "Height" : "720",
    "Duration" : "55",
    "Fps" : "25",
    "Bitrate" : "1000",
    "FileFormat" : "QuickTime / MOV",
    "Streams" : {
      "VideoStreamList" : [ {
        "Index" : "0",
        "Timebase" : "1/24000",
        "AvgFPS" : "23.976025",
        "PixFmt" : "yuv420p",
        "Sar" : "1:1",
        "Lang" : "eng",
        "CodecLongName" : "H.264 / AVC / MPEG-4 AVC / MPEG-4 part 10",
        "Height" : "720",
        "NumFrames" : "25",
        "Bitrate" : "1496.46",
        "CodecTagString" : "avc1",
        "HasBFrames" : "2",
        "Profile" : "high",
        "StartTime" : "0.000000",
        "NetworkCost" : {
          "PreloadTime" : "8",
          "AvgBitrate" : "100",
          "CostBandwidth" : "10"
        },
        "Dar" : "16:9",
        "CodecName" : "h264",
        "Width" : "1280",
        "Duration" : "17.225542",
        "Fps" : "23.976025",
        "CodecTag" : "0x31637661",
        "CodecTimeBase" : "1001/48000",
        "Level" : "51"
      } ],
      "AudioStreamList" : [ {
        "Timebase" : "1/44100",
        "Index" : "1",
        "SampleFmt" : "fltp",
        "ChannelLayout" : "stereo",
        "Lang" : "eng",
        "Samplerate" : "44100",
        "CodecLongName" : "AAC (Advanced Audio Coding)",
        "Channels" : "2",
        "NumFrames" : "25",
        "Bitrate" : "128.806",
        "CodecTagString" : "mp4a",
```

```

        "StartTime" : "0.000000",
        "CodecName" : "aac",
        "Duration" : "17.159546",
        "CodecTag" : "0x6134706d",
        "CodecTimeBase" : "1/44100"
    } ],
    "SubtitleStreamList" : [ {
        "Index" : "1",
        "Lang" : "eng"
    } ]
},
"Format" : {
    "StartTime" : "0.000000",
    "NumPrograms" : "0",
    "Size" : "3509895",
    "NumStreams" : "2",
    "FormatLongName" : "QuickTime / MOV",
    "Duration" : "55",
    "Bitrate" : "1000",
    "FormatName" : "mov"
},
"FileSize" : "3509895"
}
},
"PipelineId" : "88c6ca184c0e47098a5b665e2a126797",
"Input" : {
    "Object" : "example.flv",
    "Location" : "oss-cn-hangzhou",
    "Bucket" : "example-bucket-****"
},
"MNSMessageResult" : {
    "MessageId" : "123",
    "ErrorMessage" : "The resource operated \"%s\" cannot be found.",
    "ErrorCode" : "InvalidParameter.ResourceNotFound"
}
},
"Success" : true,
"Code" : "InvalidParameter.NullValue",
"Message" : "The specified parameter \"%s\" cannot be null."
} ],
"RequestId" : "25818875-5F78-4A45S71F6-D73936451234"
}

```

7.2. CancelJob

The CancelJob API cancels transcoding tasks. The API has the following restrictions:

 Note

- Only tasks in “Submitted” state can be canceled.
- We recommend that you first call the UpdatePipeline API (UpdatePipeline) to set the MPS queue status to Paused to stop task scheduling, and then call this API to cancel the tasks. After canceling the tasks, recover the MPS queue status to Active. In this way, tasks in the MPS queue can be scheduled and executed.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>CancelJob</i>
JobId	String	Yes	Task ID.

Response parameters

Parameter	Type	Description
JobId	String	Task ID

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?Action=CancelJob&JobId=88c6ca184c0e47098a5b665e2a126797&<Public parameters>
```

Response example

XML

```
<CancelJobResponse>
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
  <JobId>88c6ca184c0e47098a5b665e2a126797</JobId>
</CancelJobResponse>
```

JSON

```
{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "JobId": "88c6ca184c0e47098a5b665e2a126797"
}
```

7.3. QueryJobList

The QueryJobList API queries transcoding tasks in batches by transcoding task ID. By default, returned tasks are sorted in descending order by CreationTime.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>QueryJobList</i>
JobIds	String	Yes	List of transcoding task IDs separated by commas (,). A maximum of 10 transcoding task IDs can be entered at a time.

Response parameters

Parameter	Type	Description
JobList	AliyunJob[]	Set of transcoding tasks
NotExistJobIds	String[]	List of non-existing transcoding task IDs. If no data exists, this structure is not returned.

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?Action=QueryJobList&JobIds=88c6ca184c0e47098a5b665e2a126797&<Public parameters>
```

Response example

XML

```
<QueryJobListResponse>
  <RequestId>58CBF1B8-048C-4550-B59C-F6EA57A8CEB6</RequestId>
  <JobList list="true">
    <Job>
      <JobId>31fa3c9ca8134f9cec2b4b0b0f787830</JobId>
      <Input>
        <Bucket>example-bucket</Bucket>
        <Location>oss-cn-hangzhou</Location>
        <Object>example.flv</Object>
      </Input>
      <Output>
        <OutputFile>
          <Bucket>example-bucket</Bucket>
          <Location>oss-cn-hangzhou</Location>
```

```

        <Object>example-output.flv</Object>
    </OutputFile>
    <TemplateId>0001-01</TemplateId>
    <WaterMarkList list="true">
        <WaterMark>
            <InputFile>
                <Bucket>example-logo-bucket</Bucket>
                <Location>oss-cn-hangzhou</Location>
                <Object>example-logo.png</Object>
            </InputFile>
            <WaterMarkTemplateId>88c6ca184c0e47098a5b665e2a126797</WaterMar
kTemplateId>
        </WaterMark>
    </WaterMarkList>
    <Properties>
        <Streams>
            <VideoStreamList>
                <VideoStream>
                    <Index>1</Index>
                    <CodecName>h264</CodecName>
                    <CodecLongName>H. 264 / AVC / MPEG-4 AVC / MPEG-4
part 10</CodecLongName>
                    <Profile>High</Profile>
                    <CodecTimeBase>1001/48000</CodecTimeBase>
                    <CodecTagString>[0] [0] [0] [0]</CodecTagString>
                    <CodecTag>0x0000</CodecTag>
                    <Width>1920</Width>
                    <Height>1080</Height>
                    <HasBFrames>1</HasBFrames>
                    <Sar>1:1</Sar>
                    <Dar>16:9</Dar>
                    <PixFmt>yuv420p</PixFmt>
                    <Level>41</Level>
                    <Fps>25</Fps>
                    <AvgFPS>24000/1001</AvgFPS>
                    <Timebase>1/1000</Timebase>
                    <StartTime>0.042000</StartTime>
                    <Duration>100</Duration>
                    <Bitrate>30541090</Bitrate>
                    <NumFrames>100</NumFrames>
                    <Lang>eng</Lang>
                    <NetworkCost>
                        <PreloadTime>8</PreloadTime>
                        <CostBandwidth>10</CostBandwidth>
                        <AvgBitrate>300.34</AvgBitrate>
                    </NetworkCost>
                </aliyun_video_stream>
            </VideoStreamList>
            <AudioStreamList>
                <AudioStream>
                    <Index>1</Index>
                    <CodecName>dca</CodecName>
                    <CodecTimeBase>1/48000</CodecTimeBase>
                    <CodecLongName>DCA (DTS Coherent Acoustics)</Code

```

```

cLongName>
    <CodecTagString>[0][0][0][0]</CodecTagString>
    <CodecTag>0x0000</CodecTag>
    <SampleFmt>fltp</SampleFmt>
    <Samplerate>48000</Samplerate>
    <Channels>2</Channels>
    <ChannelLayout>5.1(side)</ChannelLayout>
    <Timebase>1/1000</Timebase>
    <StartTime>0.042000</StartTime>
    <Duration>123</Duration>
    <Bitrate>1536000</Bitrate>
    <NumFrames>123</NumFrames>
    <Lang>eng</Lang>
  </aliyun_audio_stream>
</AudioStreamList>
<SubtitleStreamList>
  <SubtitleStream>
    <Index>3</Index>
    <Lang>eng</Lang>
  </aliyun_subtitle_stream>
</SubtitleStreamList>
</Streams>
<Format>
  <NumStreams>1</NumStreams>
  <NumPrograms>2</NumPrograms>
  <FormatName>matroska,webm</FormatName>
  <FormatLongName>Matroska / WebM</FormatLongName>
  <StartTime>0.042000</StartTime>
  <Duration>17.600000</Duration>
  <Size>70569598</Size>
  <Bitrate>32077090</Bitrate>
</Format>
</Properties>
<UserData>testid-001</UserData>
</Output>
<State>Submitted</State>
<Code> </Code>
<Message> </Message>
<Percent>0</Percent>
<PipelineId>88c6ca184c0e47098a5b665e2a126797</PipelineId>
<CreationTime>2014-01-10T12:00:00Z</CreationTime>
</Job>
</JobList>
</QueryJobListResponse>

```

JSON

```

{
  "RequestId": "58CBF1B8-048C-4550-B59C-F6EA57A8CEB6",
  "JobList": {
    "Job": [{
      "JobId": "31fa3c9ca8134f9cec2b4b0b0f787830",
      "Input": {
        "Bucket": "example-bucket",

```

```

        "Location": "oss-cn-hangzhou",
        "Object": "example.flv"
    },
    "Output": {
        "OutputFile": {
            "Bucket": "example-bucket",
            "Location": "oss-cn-hangzhou",
            "Object": "example-output.flv"
        },
        "TemplateId": "0001-01",
        "WaterMarkList": {
            "WaterMark": [{
                "InputFile": {
                    "Bucket": "example-bucket",
                    "Location": "oss-cn-hangzhou",
                    "Object": "example-logo.png"
                },
                "WaterMarkTemplateId": "88c6ca184c0e47098a5b665e2a126797"
            }]
        },
        "Properties": {
            "Streams": {
                "VideoStreamList": {
                    "VideoStream": [
                        {
                            "Index": "1",
                            "CodecName": "h264",
                            "CodecLongName": "H. 264 / AVC / MPEG-4 AVC
/ MPEG-4 part 10",
                            "Profile": "High",
                            "CodecTimeBase": "1001/48000",
                            "CodecTagString": "[0][0][0][0]",
                            "CodecTag": "0x0000",
                            "Width": "1920",
                            "Height": "1080",
                            "HasBFrames": "1",
                            "Sar": "1:1",
                            "Dar": "16:9",
                            "PixFmt": "yuv420p",
                            "Level": "41",
                            "Fps": "25",
                            "AvgFPS": "24000/1001",
                            "Timebase": "1/1000",
                            "StartTime": "0.042000",
                            "Duration": "100",
                            "Bitrate": "30541090",
                            "NumFrames": "100",
                            "Lang": "eng",
                            "NetworkCost": {
                                "PreloadTime": "8",
                                "CostBandwidth": "10",
                                "AvgBitrate": "300.34"
                            }
                        }
                    ]
                }
            }
        }
    }
}

```



```

    ],
    },
    "AudioStreamList":{
        "AudioStream":[
            {
                "Index":"1",
                "CodecName":"dca",
                "CodecTimeBase":"1/48000",
                "CodecLongName":"DCA (DTS Coherent Acoustic
s)",
                "CodecTagString":"[0][0][0][0]",
                "CodecTag":"0x0000",
                "SampleFmt":"fltp",
                "Samplerate":"48000",
                "Channels":"2",
                "ChannelLayout":"5.1(side)",
                "Timebase":"1/1000",
                "StartTime":"0.042000",
                "Duration":"123",
                "Bitrate":"1536000",
                "NumFrames":"123",
                "Lang":"eng"
            }
        ]
    },
    "SubtitleStreamList":{
        "SubtitleStream":[
            {
                "Index":"3",
                "Lang":"eng"
            }
        ]
    },
    },
    "Format":{
        "NumStreams":"1",
        "NumPrograms":"2",
        "FormatName":"matroska,webm",
        "FormatLongName":"Matroska / WebM",
        "StartTime":"0.042000",
        "Duration":"17.600000",
        "Size":"70569598",
        "Bitrate":"32077090"
    },
    "UserData":"testid-001"
},
"State": "Submitted",
"Code": "",
"Message": "",
"Percent": 0,
"PipelineId": "88c6ca184c0e47098a5b665e2a126797",
"CreationTime":"2014-01-10T12:00:00Z"
}}

```

```
    }  
}
```

8. Custom transcoding template management

8.1. AddTemplate

Creates a custom transcoding template.

Usage notes

You can call this operation to set the parameters that are related to the container, audio streams, and video streams. For some parameters, if you do not specify them, streams that are generated by using the template do not have the corresponding settings.

Limits on QPS

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limit](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	AddTemplate	The operation that you want to perform. Set the value to AddTemplate .
Name	String	Yes	mps-example	The name of the template. The name can be up to 128 bytes in length.

Parameter	Type	Required	Example	Description
Container	String	No	null	The container configuration. The value must be a JSON object and contains the Format parameter. If you do not configure the container, the transcoded media file is in MP4 format by default. If you want to use the transcoding template to generate media files in other formats, this parameter is required. For more information, see the Parameter nested under the Container parameter section of this topic. - Default value of the Format parameter: mp4. - Video formats include FLV, MP4, HLS (M3U8 + TS), and MPEG-DASH (MPD + fMP4)  Note If the container format is FLV, the video codec cannot be set to H.265. - Audio formats include MP3, MP4, Ogg, FLAC, and M4A - Image formats include GIF and WebP.  Note - If the container format is GIF, the video codec must be set to GIF. - If the container format is WebP, the video codec must be set to WebP.

Parameter	Type	Required	Example	Description
Video	String	No	null	The video stream configuration. The value must be a JSON object. For more information, see the Parameters nested under the Video parameter section of this topic.  Note If you do not set this parameter, output files do not contain video streams. If you need to retain the video streams, this parameter is required.
Audio	String	No	null	The audio stream configuration. The value must be a JSON object. For more information, see the Parameters nested under the Audio parameter section of this topic.  Note If you do not set this parameter, output files do not contain audio streams. If you need to retain the audio streams, this parameter is required.
TransConfig	String	No	null	The general transcoding configuration. The value must be a JSON object. For more information, see the Parameters nested under the TransConfig parameter section of this topic. If you do not set this parameter, the default settings of this parameter are used. If the default settings cannot meet your transcoding needs, set the parameters nested under the TransConfig parameter as required.

Parameter	Type	Required	Example	Description
MuxConfig	String	No	null	The segment configuration. The value must be a JSON object. For more information, see the Parameters nested under the MuxConfig parameter section of this topic. If you do not set this parameter, media segment files are not generated. If you want to generate media segment files, this parameter is required.

Parameter nested under the Container parameter

Parameter	Type	Required	Description
Format	String	No	Default value: mp4. Video formats include FLV, MP4, HLS (M3U8 + TS), and MPEG-DASH (MPD + fMP4) Audio formats include MP3, MP4, Ogg, FLAC, and M4A Image formats include GIF and WebP. If you set the container format to GIF or WebP, the video codec must be respectively set to GIF or WebP. If you set the container format to FLV, the video codec cannot be set to H.265.

Parameters nested under the Video parameter

Parameter	Type	Required	Description
Codec	String	No	The video codec. Valid video codecs: H.264, H.265, GIF, and WebP. Default video codec: H.264.

Parameter	Type	Required	Description
Profile	String	No	The codec profile. Valid values: baseline, main, and high. Default value: high. A value of baseline specifies that media files are transcoded for mobile devices. A value of main specifies that media files are transcoded for standard-resolution devices. A value of high specifies that media files are transcoded for high-resolution devices. If multiple definitions exist, we recommend that you set this parameter to baseline for the lowest definition to ensure normal playback on low-end devices. Set this parameter to main or high for other definitions. This parameter is valid only when the video codec is set to H.264.
Bitrate	String	No	The bitrate. Valid values: 10 to 50000. Unit: Kbit/s.
Crf	String	No	The constant rate factor. Valid values: 0 to 51. Default value: 26. If this parameter is specified, the setting of the Bitrate parameter becomes invalid.
Width	String	No	The width of the video. Default value: the width of the input video. Valid values: 128 to 4096. Unit: pixel.

Parameter	Type	Required	Description
Height	String	No	The height of the video. Default value: the height of the input video. Valid values: 128 to 4096. Unit: pixel.
Fps	String	No	The frame rate of the video. Default value: the frame rate of the input file. The value is 60 if the frame rate of the input file exceeds 60. Valid values: (0,60]. Unit: frames per second.
Gop	String	No	The group of pictures (GOP) size. The GOP size can be the maximum interval of keyframes or the maximum number of frames in a frame group. If you specify the maximum interval of keyframes, the unit (s) is required. Default value: 10s. If you specify the maximum number of frames, the value has no unit. Valid values: 1 to 100000.
Preset	String	No	The preset video algorithm. Valid values: veryfast, fast, medium, slow, and slower. Default value: medium. This parameter is valid only when the video codec is set to H.264.
ScanMode	String	No	The scan mode. Valid values: interlaced and progressive.

Parameter	Type	Required	Description
Bufsize	String	No	The size of the buffer. Valid values: [1000,128000]. Default value: 6000. Unit: KB.
Maxrate	String	No	The maximum video bitrate. Valid values: [10,50000]. Unit: Kbit/s.
PixFmt	String	No	The pixel format for video color encoding. Standard pixel formats such as yuv420p and yuvj420p are supported. The default pixel format can be yuv420p or the original color format.
Remove	String	No	Specifies whether to delete the video stream. A value of true specifies to delete the video stream. A value of false specifies to retain the video stream. Default value: false.
Crop	String	No	The method of video cropping. A value of border specifies to automatically detect and crop the black borders. A value in the format of width:height:left:top specifies to crop the video image based on the custom setting. Example: 1280:800:0:140.

Parameter	Type	Required	Description
Pad	String	No	The black borders to be added to the video. Format: width:height:left:top. Example: 1280:800:0:140.
LongShortMode	String	No	Specifies whether to enable the auto-rotate screen feature. If this feature is enabled, the width of the output video corresponds to the long side of the input video, which is the height of the input video in portrait mode. The height of the output video corresponds to the short side of the input video, which is the width of the input video in portrait mode. A value of true specifies to enable the feature. A value of false specifies to disable the feature. Default value: false.

The following table describes the supported combinations of container formats, video codecs, and audio codecs.

Container format	Audio codec	Video codec
FLV	AAC and MP3	H.264
MP4	AAC and MP3	H.264 and H.265

Container format	Audio codec	Video codec
TS	AAC and MP3	H.264 and H.265
M3U8	AAC and MP3	H.264 and H.265
GIF	N/A	GIF

The following table describes the video stream parameters that are supported by different video codecs. A value of Y indicates that a parameter is supported. A value of N indicates that a parameter is not supported.

Video stream parameter/Codec	H.264	H.265	GIF
Profile	Y	N	N
Bitrate	Y	Y	N
Crf	Y	Y	N
Width	Y	Y	Y
Height	Y	Y	Y
Fps	Y	Y	Y
Gop	Y	Y	N
Preset	Y	N	N
ScanMode	Y	Y	Y
Bufsize	Y	Y	N
Maxrate	Y	Y	N

Video stream parameter/Codec	H.264	H.265	GIF
PixFmt	Y	Y	Y (only BGR8)

Parameters nested under the Audio parameter

Parameter	Type	Required	Description
Codec	String	No	The audio codec. Valid audio codecs: AAC, MP3, VORBIS, and FLAC. Default audio codec: AAC.
Profile	String	No	The codec profile of the audio. Valid values when the audio codec is set to AAC: aac_low, aac_he, aac_he_v2, aac_ld, and aac_eld.
Samplerate	String	No	The sampling rate. Valid values: 22050, 32000, 44100, 48000, and 96000. Default value: 44100. Unit: Hz. If the video container format is FLV and the audio codec is MP3, you cannot set this parameter to 32000, 48000, or 96000. If the audio codec is MP3, you cannot set this parameter to 96000.
Bitrate	String	No	The audio bitrate of the output file. Valid values:[8,1000]. Default value: 128. Unit: Kbit/s.

Parameter	Type	Required	Description
Channels	String	No	The number of sound channels. Default value: 2. Valid values when the audio codec is set to MP3: 1 and 2. Valid values when the audio codec is set to AAC: 1, 2, 4, 5, 6, and 8.
Remove	String	No	Specifies whether to delete the audio stream. A value of true specifies to delete the audio stream. A value of false specifies to retain the audio stream. Default value: false.

The following table describes the supported combinations of audio codecs and container formats.

Container format	Audio codec
MP3	MP3
MP4	AAC
OGG	VORBIS and FLAC
FLAC	FLAC

Parameters nested under the TransConfig parameter

Parameter	Type	Required	Description
TransMode	String	No	The transcoding mode. Valid values: onepass, twopass, and CBR. Default value: onepass.

Parameter	Type	Required	Description
AdjDarMethod	String	No	The method of resolution adjustment. Valid values: rescale, crop, pad, and none. Default value: none.
IsCheckReso	String	No	Specifies whether to check the resolution. If this feature is enabled and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, the resolution of the input file is retained after transcoding. A value of true specifies to check the resolution. A value of false specifies not to check the resolution. Default value: false.

Parameter	Type	Required	Description
IsCheckResoFail	String	No	Specifies whether to check the resolution. If this feature is enabled and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, an error that indicates a transcoding failure is returned. A value of true specifies to check the resolution. A value of false specifies not to check the resolution. Default value: false.
IsCheckVideoBitrate	String	No	Specifies whether to check the video bitrate. If this feature is enabled and the system detects that the video bitrate of the output file is greater than that of the input file, the video bitrate of the input file is retained after transcoding. A value of true specifies to check the video bitrate. A value of false specifies not to check the video bitrate. Default value: false.

Parameter	Type	Required	Description
IsCheckAudioBitrate	String	No	Specifies whether to check the audio bitrate. If this feature is enabled and the system detects that the audio bitrate of the output file is greater than that of the input file, the audio bitrate of the input file is retained after transcoding. A value of true specifies to check the audio bitrate. A value of false specifies not to check the audio bitrate. Default value: false.
IsCheckAudioBitrateFail	String	No	Specifies whether to check the audio bitrate. If this feature is enabled and the system detects that the audio bitrate of the output file is higher than that of the input file, the input file is not transcoded. A value of true specifies to check the audio bitrate. A value of false specifies not to check the audio bitrate. Default value: false. This parameter has a higher priority than the IsCheckAudioBitrate parameter.

Parameter	Type	Required	Description
IsCheckVideoBitrateFail	String	No	Specifies whether to check the video bitrate. If this feature is enabled and the system detects that the video bitrate of the output file is higher than that of the input file, the input file is not transcoded. A value of true specifies to check the video bitrate. A value of false specifies not to check the video bitrate. Default value: false. This parameter has a higher priority than the IsCheckVideoBitrate parameter.

Parameters nested under the MuxConfig parameter

Parameter	Type	Required	Description
Segment	String	No	The segment configuration. The value must be a JSON object. For more information, see the following section.

Parameters nested under the Segment parameter

Parameter	Type	Required	Description
Duration	String	No	The length of the segment. The value must be an integer. Unit: seconds. Valid values: [1,60]. Default value: 10.
ForceSegTime	String	No	Specifies the time points at which you want to segment the media file. You can specify up to 10 time points. Separate the time points with commas (,). The time points can be accurate to three decimal places. Unit: seconds. For example, if you set this parameter to 23,55,60, the media file will be segmented at the 23rd, 55th, and 60th seconds.

Response parameters

Parameter	Type	Example	Description
RequestId	String	FA258E67-09B8-4EAA-8F33-BA567834A2C3	The ID of the request.
Template	Object		The details of the transcoding template.
Video	Object		The video codec configuration.
Bufsize	String	6000	The size of the buffer. - Default value: 6000. - Unit: KB.

Parameter	Type	Example	Description
LongShortMode	String	false	Indicates whether to enable the auto-rotate screen feature. Default value: false. Valid values: true: The auto-rotate screen feature is enabled. false: The auto-rotate screen feature is disabled.  Note If this feature is enabled, the width of the output video corresponds to the long side of the input video, which is the height of the input video in portrait mode. The height of the output video corresponds to the short side of the input video, which is the width of the input video in portrait mode.
Degrain	String	10	The level of quality control on the video.
BitrateBnd	Object		The bitrate range of the video.
Max	String	1500	The maximum bitrate.
Min	String	800	The minimum bitrate.
PixFmt	String	yuv420p	The pixel format for video color encoding. Standard pixel formats such as yuv420p and yuvj420p are supported. The default pixel format can be yuv420p or the original color format.
Pad	String	1280:800:0:140	The black borders to be added to the video. Format: width:height:left:top.
Codec	String	H.264	The video codec. Valid video codecs: H.264, H.265, GIF, and WebP. Default video codec: H.264 .

Parameter	Type	Example	Description
Height	String	800	The height of the video. - Unit: pixel. - Default value: the height of the input video.
Qscale	String	1	The level of the independent denoising algorithm.
Crop	String	border	The method of video cropping. Valid values: border: automatically detects and removes borders. - Value in the format of width:height:left:top: crops the video image based on the custom setting. Example: 1280:800:0:140.
Bitrate	String	500	The bitrate of the output video. Unit: Kbit/s.
Maxrate	String	500	The maximum bitrate of the output video. Unit: Kbit/s.
MaxFps	String	60	The maximum frame rate.
Profile	String	high	The codec profile. Valid values: baseline: suitable for mobile devices main: suitable for standard-definition devices high: suitable for high-definition devices - Default value: high. If multiple definitions exist, we recommend that you set this parameter to baseline for the lowest definition to ensure normal playback on low-end devices. Set this parameter to main or high for other definitions.  Note This parameter is valid only when the video codec is set to H.264.

Parameter	Type	Example	Description
Crf	String	15	The constant rate factor. Default value when the video codec is set to H.264: 23. Default value when the video codec is set to H.265: 26.  Note If this parameter is specified, the setting of the Bitrate parameter becomes invalid.
Remove	String	false	Indicates whether to delete the video stream. true: The video stream is deleted. false: The video stream is retained. - Default value: false.
Gop	String	10s	The GOP size. The GOP size can be the maximum interval of keyframes or the maximum number of frames in a frame group. If you specified the maximum interval, the value contains the unit (s). If you specified the maximum number of frames, the value does not contain a unit. Default value: 10s.
Width	String	256	The width of the video. - Default value: the width of the input video. - Unit: pixel.
Fps	String	25	The frame rate of the video. Default value: the frame rate of the input file. The value is 60 if the frame rate of the input file exceeds 60. Unit: frames per second.

Parameter	Type	Example	Description
Preset	String	fast	The preset video algorithm. Default value: medium. Valid values: • veryfast • fast • medium • slow • slower  Note This parameter is valid only when the video codec is set to H.264.
ScanMode	String	interlaced	The scan mode. Valid values: • interlaced • progressive
ResoPriority	String	0	The policy of resolution adjustment.
TransConfig	Object		The general transcoding configuration.
IsCheckAudioBitrate	String	true	Indicates whether to check the audio bitrate. If this feature is enabled and the system detects that the audio bitrate of the output file is greater than that of the input file, the audio bitrate of the input file is retained after transcoding. • true: The audio bitrate is checked. • false: The audio bitrate is not checked. • Default value: false.
TransMode	String	onepass	The transcoding mode. Valid values: • onepass • twopass • CBR • Default value: onepass.

Parameter	Type	Example	Description
IsCheckReso	String	true	Indicates whether to check the resolution. true: The resolution is checked. false: The resolution is not checked. - Default value: false.  Note If this feature is enabled and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, the resolution of the input file is retained after transcoding.
IsCheckVideoBitrateFail	String	true	If the video bitrate of the output file is found to be greater than that of the input file, this parameter has a higher priority than the IsCheckVideoBitrate parameter. Valid values: true: The video bitrate is checked. If the video bitrate of the output file is higher than that of the input file, the input file is not transcoded. false: The video bitrate is not checked. - Default value: false.
AdjDarMethod	String	rescale	The method of resolution adjustment. Default value: none Valid values: rescale: The input video is rescaled. crop: The input video is cropped. none: No change is made.

Parameter	Type	Example	Description
IsCheckVideoBitrate	String	true	Indicates whether to check the video bitrate. true: The video bitrate is checked. false: The video bitrate is not checked. - Default value: false. Note If this feature is enabled and the system detects that the video bitrate of the output file is greater than that of the input file, the video bitrate of the input file is retained after transcoding.
IsCheckResoFail	String	true	Indicates whether to check the resolution. true: The resolution is checked. false: The resolution is not checked. - Default value: false. Note If this feature is enabled and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, an error that indicates a transcoding failure is returned.
IsCheckAudioBitrateFail	String	true	Indicates whether to check the audio bitrate. If the bitrate of the output audio is greater than that of the input audio, this parameter has a higher priority than the IsCheckAudioBitrate parameter. true: The audio bitrate is checked. If the bitrate of the output audio is greater than that of the input audio, the input file is not transcoded. false: The audio bitrate is not checked. - Default value: false.
State	String	Normal	The status of the template. Normal: The template is normal. Deleted: The template is deleted.

Parameter	Type	Example	Description
MuxConfig	Object		The transmuxing configuration.
Webp	Object		The transmuxing configuration for WebP.
Loop	String	0	The loop count.
Gif	Object		The transmuxing configuration for GIF.
FinalDelay	String	0	The duration for which the final frame is paused. Unit: centiseconds.
DitherMode	String	sierra	The color dithering algorithm of the palette. Valid values: sierra and bayer.
Loop	String	0	The loop count.
IsCustomPalette	String	false	Indicates whether the custom palette is used.
Segment	Object		The segment configuration.
Duration	String	10	The length of the segment. Unit: seconds.
Name	String	mps-example	The name of the template.
Audio	Object		The audio codec configuration.
Profile	String	aac_low	The codec profile of the audio. Valid values when the audio codec is set to AAC : • aac_low • aac_he • aac_he_v2 • aac_ld • aac_eld

Parameter	Type	Example	Description
Remove	String	true	Indicates whether to delete the audio stream. • true: The audio stream is deleted. • false: The audio stream is retained. • Default value: false.
Codec	String	aac	The audio codec. Default audio codec: AAC . Valid audio codecs: • AAC • MP3 • VORBIS • FLAC
Samplerate	String	44100	The sampling rate. • Unit: Hz. • Default value: 44100.
Qscale	String	5	The level of the independent denoising algorithm.
Channels	String	2	The number of sound channels. Default value: 2.
Volume	Object		The details of the volume.
Method	String	auto	The volume adjustment method. Valid values: • auto: The volume is automatically adjusted. • dynamic: The volume is dynamically adjusted. • linear: The volume is linearly adjusted.
Level	String	-20	The volume adjustment range. • Default value: -20. • Unit: dB.

Parameter	Type	Example	Description
Bitrate	String	500	The audio bitrate of the output file. - Unit: Kbit/s. - Default value: 128.
Id	String	16f01ad6175e4230ac42bb5182cd****	The ID of the transcoding template. We recommend that you keep this ID for subsequent operation calls.
Container	Object		The container configuration.
Format	String	mp4	The container format.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=AddTemplate
&Name=mps-example
&Container={"Format":"mp4"}
&Video={"Codec":"H.264","Profile":"high","Bitrate":"500","Crf":"15","Width":"256","Height":
"800","Fps":"25","Gop":"10s"}
&Audio={"Codec":"H.264","Samplerate":"44100","Bitrate":"500","Channels":"2"}
&TransConfig={"TransMode":"onepass"}
&MuxConfig={"Segment":{"Duration":"10"}}
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<AddTemplateResponse>
  <RequestId>FA258E67-09B8-4EAA-8F33-BA567834A2C3</RequestId>
  <Template>
    <Video>
      <Bufsize>6000</Bufsize>
      <LongShortMode>false</LongShortMode>
      <Degrain>10</Degrain>
      <BitrateBnd>
        <Max>1500</Max>
        <Min>800</Min>
      </BitrateBnd>
      <PixFmt>yuv420p</PixFmt>
      <Pad>1280:800:0:140</Pad>
      <Codec>H.264</Codec>
      <Height>800</Height>
      <Oscale>1</Oscale>
```

```

    <Crop>border</Crop>
    <Bitrate>500</Bitrate>
    <Maxrate>500</Maxrate>
    <MaxFps>60</MaxFps>
    <Profile>high</Profile>
    <Crf>15</Crf>
    <Remove>>false</Remove>
    <Gop>10s</Gop>
    <Width>256</Width>
    <Fps>25</Fps>
    <Preset>fast</Preset>
    <ScanMode>interlaced</ScanMode>
    <ResoPriority>0</ResoPriority>
</Video>
<TransConfig>
    <IsCheckAudioBitrate>>true</IsCheckAudioBitrate>
    <TransMode>onepass</TransMode>
    <IsCheckReso>true</IsCheckReso>
    <IsCheckVideoBitrateFail>true</IsCheckVideoBitrateFail>
    <AdjDarMethod>rescale</AdjDarMethod>
    <IsCheckVideoBitrate>true</IsCheckVideoBitrate>
    <IsCheckResoFail>true</IsCheckResoFail>
    <IsCheckAudioBitrateFail>true</IsCheckAudioBitrateFail>
</TransConfig>
<State>Normal</State>
<MuxConfig>
    <Webp>
        <Loop>0</Loop>
    </Webp>
    <Gif>
        <FinalDelay>0</FinalDelay>
        <DitherMode>sierra</DitherMode>
        <Loop>0</Loop>
        <IsCustomPalette>>false</IsCustomPalette>
    </Gif>
    <Segment>
        <Duration>10</Duration>
    </Segment>
</MuxConfig>
<Name>mps-example</Name>
<Audio>
    <Profile>aac_low</Profile>
    <Remove>true</Remove>
    <Codec>aac</Codec>
    <Samplerate>44100</Samplerate>
    <Qscale>5</Qscale>
    <Channels>2</Channels>
    <Volume>
        <Method>auto</Method>
        <Level>-20</Level>
    </Volume>
    <Bitrate>500</Bitrate>
</Audio>
<Id>16f01ad6175e4230ac42bb5182cd****</Id>

```

```
<Container>
  <Format>mp4</Format>
</Container>
</Template>
</AddTemplateResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "FA258E67-09B8-4EAA-8F33-BA567834A2C3",
  "Template" : {
    "Video" : {
      "Bufsize" : "6000",
      "LongShortMode" : "false",
      "Degrain" : "10",
      "BitrateBnd" : {
        "Max" : "1500",
        "Min" : "800"
      },
      "PixFmt" : "yuv420p",
      "Pad" : "1280:800:0:140",
      "Codec" : "H.264",
      "Height" : "800",
      "Qscale" : "1",
      "Crop" : "border",
      "Bitrate" : "500",
      "Maxrate" : "500",
      "MaxFps" : "60",
      "Profile" : "high",
      "Crf" : "15",
      "Remove" : "false",
      "Gop" : "10s",
      "Width" : "256",
      "Fps" : "25",
      "Preset" : "fast",
      "ScanMode" : "interlaced",
      "ResoPriority" : "0"
    },
    "TransConfig" : {
      "IsCheckAudioBitrate" : "true",
      "TransMode" : "onepass",
      "IsCheckReso" : "true",
      "IsCheckVideoBitrateFail" : "true",
      "AdjDarMethod" : "rescale",
      "IsCheckVideoBitrate" : "true",
      "IsCheckResoFail" : "true",
      "IsCheckAudioBitrateFail" : "true"
    },
    "State" : "Normal",
    "MuxConfig" : {
      "Webp" : {
        "Quality" : "60"
```

```
        "Loop" : "0"
      },
      "Gif" : {
        "FinalDelay" : "0",
        "DitherMode" : "sierra",
        "Loop" : "0",
        "IsCustomPalette" : "false"
      },
      "Segment" : {
        "Duration" : "10"
      }
    },
    "Name" : "mps-example",
    "Audio" : {
      "Profile" : "aac_low",
      "Remove" : "true",
      "Codec" : "aac",
      "Samplerate" : "44100",
      "Qscale" : "5",
      "Channels" : "2",
      "Volume" : {
        "Method" : "auto",
        "Level" : "-20"
      },
      "Bitrate" : "500"
    },
    "Id" : "16f01ad6175e4230ac42bb5182cd****",
    "Container" : {
      "Format" : "mp4"
    }
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.2. UpdateTemplate

Updates a custom transcoding template.

Usage notes

A custom transcoding template cannot be updated if it is being used by a job that has been submitted.

Limits on QPS

You can call this operation up to 100 times per second. If the number of the calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateTemplate	The operation that you want to perform. Set the value to UpdateTemplate .
TemplateId	String	Yes	16f01ad6175e4230ac42bb5182cd****	The ID of the template. You can obtain the template ID from the response of the AddTemplate operation.
Name	String	Yes	MPS-example	The name of the template. The value can be up to 128 bytes in size.
Container	String	No	null	The container format. The value is a JSON object. Default format: MP4 . • Video formats: FLV, MP4, HLS (m3u8 + TS), and MPEG-DASH (MPD + fMP4) • Audio formats: MP3, MP4, Ogg, FLAC, and M4A • Images formats: GIF and WebP For more information, see Container .
Video	String	No	null	The configuration of the video stream. The value is a JSON object. For more information, see Video .
Audio	String	No	null	The configuration of the audio stream. The value is a JSON object. For more information, see Audio .
MuxConfig	String	No	null	The transmuxing configuration. The value is a JSON object. For more information, see MuxConfig .
TransConfig	String	No	null	The general transcoding configuration. The value is a JSON object. For more information, see TransConfig .

Response parameters

Parameter	Type	Example	Description
RequestId	String	5E4FB22E-B9EA-4E24-8FFC-B407EA71QW21	The ID of the request.
Template	Object		The type of the transcoding template.
Video	Object		The video codec configuration.
LongShortMode	String	false	Indicates whether to enable the auto-rotate screen feature. - If this feature is enabled, the width of the output video corresponds to the long side of the input video, which is the height of the input video in portrait mode. The height of the output video corresponds to the short side of the input video, which is the width of the input video in portrait mode. true: The auto-rotate screen feature is enabled. false: The auto-rotate screen feature is disabled. - Default value: false.
Bufsize	String	6000	The size of the buffer. - Unit: KB. - Default value: 6000.
Degrain	String	10	The level of video quality control.
BitrateBnd	Object		The average bitrate range of the video.
Max	String	500	The upper limit of the total bitrate. Unit: Kbit/s.
Min	String	100	The lower limit of the total bitrate. Unit: Kbit/s.

Parameter	Type	Example	Description
PixFmt	String	yuv420p	The pixel format for video color encoding. Valid values: standard pixel formats such as yuv420p and yuvj420p.
Pad	String	1280:800:0:140	The black borders to be added to the video. • Format: width:height:left:top. • Example: 1280:800:0:140.
Codec	String	H.264	The video codec. Default value: H.264 .
Height	String	800	The height of the video. • Unit: pixel. • Default value: the height of the input video.
Qscale	String	1	The strength of the independent noise reduction algorithm.
Crop	String	border	The method of video cropping. Valid values: • border: automatically detects and removes borders. • Other values: the custom cropping modes. Format: width:height:left:top. Example: 1280:800:0:140.
Bitrate	String	200	The average bitrate of the video. Unit: Kbit/s.
Maxrate	String	500	The maximum video bitrate. Unit: Kbit/s.
MaxFps	String	60	The maximum frame rate.
Profile	String	high	The codec profile. • baseline: applicable to mobile devices. • main: applicable to standard-definition devices. • high: applicable to high-definition devices. • Default value: high.

Parameter	Type	Example	Description
Crf	String	15	The constant rate factor. • Default value when the Codec parameter is set to H.264: 23. Default value when the Codec parameter is set to H.265: 26. • If this parameter is specified, the setting of the Bitrate parameter is invalid.
Remove	String	false	Indicates whether to delete the video stream. • true: The video stream is deleted. • false: The video stream is retained. • Default value: false.
Gop	String	10	The maximum number of frames between two keyframes. Default value: 250.
Width	String	256	The width of the video. • Unit: pixel. • Default value: the width of the input video.
Fps	String	25	The frame rate of the video. • The value is 60 if the frame rate of the input video exceeds 60. • Default value: the frame rate of the input video.
Preset	String	medium	The preset video algorithm. Default value: medium. Valid values: • veryfast • fast • medium • slow • slower
ScanMode	String	interlaced	The scan mode. Valid values: • interlaced • progressive
ResoPriority	String	1	The policy of resolution adjustment.

Parameter	Type	Example	Description
TransConfig	Object		The general transcoding configuration.
IsCheckAudioBitrate	String	false	Indicates whether to check the audio bitrate. - If this feature is enabled and the system detects that the audio bitrate of the output file is greater than that of the input file, the audio bitrate of the input file is retained after transcoding. true: The audio bitrate is checked. false: The audio bitrate is not checked. - Default value: false.
TransMode	String	onepass	The transcoding mode. Default value: onepass. Valid values: onepass twopass CBR
IsCheckReso	String	false	Indicates whether to check the resolution. - If this feature is enabled and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, the resolution of the input file is retained after transcoding. true: The resolution is checked. false: The resolution is not checked. - Default value: false.
IsCheckVideoBitrateFail	String	false	Indicates whether to allow video bitrate check errors. true. If the video bitrate check fails, the input file is not transcoded. false: The video bitrate is not checked. - Default value: false. - This parameter takes precedence over the <code>IsCheckVideoBitrate</code> parameter.

Parameter	Type	Example	Description
AdjDarMethod	String	none	The method of resolution adjustment. Default value: none. Valid values: - rescale: The input video is rescaled. - crop: The input video is cropped. - none: No change is made.
IsCheckVideoBitrate	String	false	Indicates whether to check the video bitrate. - If this feature is enabled and the system detects that the video bitrate of the output file is greater than that of the input file, the video bitrate of the input file is retained after transcoding. true: The video bitrate is checked. false: The video bitrate is not checked. - Default value: false.
IsCheckResoFail	String	false	Indicates whether to check the resolution. - If this feature is enabled and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, an error that indicates a transcoding failure is returned. true: The resolution is checked. false: The resolution is not checked. - Default value: false.
IsCheckAudioBitrateFail	String	false	Indicates whether to allow audio bitrate check errors. true. If the audio bitrate check fails, the input file is not transcoded. false: The audio bitrate is not checked. - Default value: false. - This parameter takes precedence over the IsCheckAudioBitrate parameter.
State	String	Normal	The status of the template. Normal: The template is normal. Deleted: The template is deleted.
MuxConfig	Object		The transmuxing configuration.

Parameter	Type	Example	Description
Webp	Object		The transmuxing configuration for WebP.
Loop	String	0	The loop count.
Gif	Object		The transmuxing configuration for GIF.
FinalDelay	String	false	The duration for which the final frame is paused. Unit: milliseconds.
DitherMode	String	bayer	The color dithering algorithm of the palette. Valid values: sierra and bayer.
Loop	String	0	The loop count.
IsCustomPalette	String	0	Indicates whether the custom palette is used.
Segment	Object		The segment configuration.
Duration	String	10	The length of the segment. Unit: seconds.
Name	String	MPS-example	The name of the template.
Audio	Object		The audio codec configuration.
Profile	String	aac_low	The codec profile of the audio. Valid values when the Codec parameter is set to aac : • aac_low • aac_he • aac_he_v2 • aac_ld • aac_eld

Parameter	Type	Example	Description
Remove	String	false	Indicates whether to delete the audio stream. • true: The audio stream is deleted. • false: The audio stream is retained. • Default value: false.
Codec	String	aac	The audio codec. Default value: aac . Valid values: • aac • mp3 • vorbis • flac
Samplerate	String	44100	The sampling rate. • Unit: Hz. • Default value: 44100.
Qscale	String	1	The strength of the independent noise reduction algorithm.
Channels	String	2	The number of sound channels. Default value: 2.
Bitrate	String	500	The audio bitrate of the output file. • Valid values: [8, 1000]. • Unit: Kbit/s. • Default value: 128.
Id	String	16f01ad6175e4230ac42bb5182cd****	The ID of the transcoding template.
Container	Object		The container configuration.
Format	String	mp4	The container format.

Examples

Sample requests

```
http(s)://mts.cn-shanghai.aliyuncs.com/?Action=UpdateTemplate/?Action=UpdateTemplate
&ResourceOwnerId=1
&TemplateId=16f01ad6175e4230ac42bb5182cd****
&Name=MPS-example
&Container={"Format":"mp4"}
&Video={"Codec":"H.264","Profile":"high","Bitrate":"500","Crf":"15","Width":"256","Height":
"800","Fps":"25","Gop":"10"}
&Audio={"Codec":"aac","Samplerate":"44100","Bitrate":"500","Channels":"2"}
&MuxConfig={"Segment":{"Duration":"10"}}
&TransConfig={"TransMode":"onepass"}
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateTemplateResponse>
  <RequestId>5E4FB22E-B9EA-4E24-8FFC-B407EA71QW21</RequestId>
  <Template>
    <Video>
      <LongShortMode>false</LongShortMode>
      <Bufsize>6000</Bufsize>
      <Degrain>10</Degrain>
      <BitrateBnd>
        <Max>500</Max>
        <Min>100</Min>
      </BitrateBnd>
      <PixFmt>yuv420p</PixFmt>
      <Pad>1280:800:0:140</Pad>
      <Codec>H.264</Codec>
      <Height>800</Height>
      <Qscale>1</Qscale>
      <Crop>border</Crop>
      <Bitrate>200</Bitrate>
      <Maxrate>500</Maxrate>
      <MaxFps>60</MaxFps>
      <Profile>high</Profile>
      <Crf>15</Crf>
      <Remove>false</Remove>
      <Gop>10</Gop>
      <Width>256</Width>
      <Fps>25</Fps>
      <Preset>medium</Preset>
      <ScanMode>interlaced</ScanMode>
      <ResoPriority>1</ResoPriority>
    </Video>
    <TransConfig>
      <IsCheckAudioBitrate>false</IsCheckAudioBitrate>
      <TransMode>onepass</TransMode>
      <IsCheckReso>false</IsCheckReso>
      <IsCheckVideoBitrateFail>false</IsCheckVideoBitrateFail>
      <AdiDarMethod>none</AdiDarMethod>
```

```

        <IsCheckVideoBitrate>false</IsCheckVideoBitrate>
        <IsCheckResoFail>false</IsCheckResoFail>
        <IsCheckAudioBitrateFail>false</IsCheckAudioBitrateFail>
    </TransConfig>
    <State>Normal</State>
    <MuxConfig>
        <Webp>
            <Loop>0</Loop>
        </Webp>
        <Gif>
            <FinalDelay>false</FinalDelay>
            <DitherMode>bayer</DitherMode>
            <Loop>0</Loop>
            <IsCustomPalette>0</IsCustomPalette>
        </Gif>
        <Segment>
            <Duration>10</Duration>
        </Segment>
    </MuxConfig>
    <Name>MPS-example</Name>
    <Audio>
        <Profile>aac_low</Profile>
        <Remove>false</Remove>
        <Codec>aac</Codec>
        <Samplerate>44100</Samplerate>
        <Qscale>1</Qscale>
        <Channels>2</Channels>
        <Bitrate>500</Bitrate>
    </Audio>
    <Id>l6f01ad6175e4230ac42bb5182cd****</Id>
    <Container>
        <Format>mp4</Format>
    </Container>
</Template>
</UpdateTemplateResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "5E4FB22E-B9EA-4E24-8FFC-B407EA71QW21",
  "Template" : {
    "Video" : {
      "LongShortMode" : "false",
      "Bufsize" : "6000",
      "Degrain" : "10",
      "BitrateBnd" : {
        "Max" : "500",
        "Min" : "100"
      },
    },
    "PixFmt" : "yuv420p",
    "Pad" : "1280:800:0:140",
    "Audio" : {
      "Profile" : "aac_low",
      "Remove" : "false",
      "Codec" : "aac",
      "Samplerate" : "44100",
      "Qscale" : "1",
      "Channels" : "2",
      "Bitrate" : "500"
    }
  }
}

```



```
"Codec" : "H.264",
"Height" : "800",
"Qscale" : "1",
"Crop" : "border",
"Bitrate" : "200",
"Maxrate" : "500",
"MaxFps" : "60",
"Profile" : "high",
"Crif" : "15",
"Remove" : "false",
"Gop" : "10",
"Width" : "256",
"Fps" : "25",
"Preset" : "medium",
"ScanMode" : "interlaced",
"ResoPriority" : "1"
},
"TransConfig" : {
  "IsCheckAudioBitrate" : "false",
  "TransMode" : "onepass",
  "IsCheckReso" : "false",
  "IsCheckVideoBitrateFail" : "false",
  "AdjDarMethod" : "none",
  "IsCheckVideoBitrate" : "false",
  "IsCheckResoFail" : "false",
  "IsCheckAudioBitrateFail" : "false"
},
"State" : "Normal",
"MuxConfig" : {
  "Webp" : {
    "Loop" : "0"
  },
  "Gif" : {
    "FinalDelay" : "false",
    "DitherMode" : "bayer",
    "Loop" : "0",
    "IsCustomPalette" : "0"
  },
  "Segment" : {
    "Duration" : "10"
  }
},
"Name" : "MPS-example",
"Audio" : {
  "Profile" : "aac_low",
  "Remove" : "false",
  "Codec" : "aac",
  "Samplerate" : "44100",
  "Qscale" : "1",
  "Channels" : "2",
  "Bitrate" : "500"
},
"Id" : "16f01ad6175e4230ac42bb5182cd****",
"Container" : {
  "Format" : "m4"
```

```
}  
}  
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.3. QueryTemplateList

Queries custom transcoding templates.

Usage notes

You can call this operation to query up to 10 custom transcoding templates at a time.

Limits on QPS

You can call this operation up to 100 times per second. If the number of the calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	QueryTemplateList	The operation that you want to perform. Set the value to QueryTemplateList .
TemplateIds	String	Yes	16f01ad6175e4230ac42bb5182cd****,88c6ca184c0e424d5w5b665e2a12****	The IDs of the custom transcoding templates that you want to query. You can query up to 10 custom transcoding templates at a time. Separate multiple IDs of custom transcoding templates with commas (,).

Response parameters

Parameter	Type	Example	Description
-----------	------	---------	-------------

Parameter	Type	Example	Description
NotExistTids	Array of String	88c6ca184c0e424d5w5b665e2a12****	The template IDs that do not exist. This parameter is not returned if all specified custom transcoding templates are found.
TemplateList	Array of Template		The details of the custom transcoding templates.
Template			
Video	Object		The video codec configuration.
Bufsize	String	6000	The size of the buffer. - Unit: KB. - Default value: 6000.
LongShortMode	String	false	Indicates whether to enable the auto-rotate screen feature. - If this feature is enabled, the width of the output video corresponds to the long side of the input video, which is the height of the input video in portrait mode. The height of the output video corresponds to the short side of the input video, which is the width of the input video in portrait mode. true: The auto-rotate screen feature is enabled. false: The auto-rotate screen feature is disabled. - Default value: false.
Degrain	String	10	The level of video quality control.
BitrateBnd	Object		The average bitrate range of the video.
Max	String	100	The upper limit of the total bitrate. Unit: Kbit/s.
Min	String	500	The lower limit of the total bitrate. Unit: Kbit/s.

Parameter	Type	Example	Description
PixFmt	String	yuv420p	The pixel format for video color encoding. Valid values: standard pixel formats such as yuv420p and yuvj420p.
Pad	String	1280:800:0:140	The black borders to be added to the video. Format: width:height:left:top. Example: 1280:800:0:140.
Codec	String	H.264	The video codec. Default value: H.264 .
Height	String	800	The height of the video. - Unit: pixel. - Default value: the height of the input video.
Qscale	String	1	The strength of the independent noise reduction algorithm.
Crop	String	border	The method of video cropping. Valid values: border: automatically detects and removes borders. Other values: the custom cropping modes. Format: width:height:left:top. Example: 1280:800:0:140.
Bitrate	String	200	The average bitrate of the video. Unit: Kbit/s.
Maxrate	String	500	The maximum video bitrate. Unit: Kbit/s.
MaxFps	String	60	The maximum frame rate.
Profile	String	high	The codec profile. baseline: applicable to mobile devices. main: applicable to standard-definition devices. high: applicable to high-definition devices. - Default value: high.

Parameter	Type	Example	Description
Crf	String	15	The constant rate factor. • Default value when the Codec parameter is set to H.264: 23. Default value when the Codec parameter is set to H.265: 26. • If this parameter is specified, the setting of the Bitrate parameter is invalid.
Remove	String	false	Indicates whether to delete the video stream. • true: The video stream is deleted. • false: The video stream is retained. • Default value: false.
Gop	String	10	The maximum number of frames between two keyframes. Default value: 250.
Width	String	256	The width of the video. • Unit: pixel. • Default value: the width of the input video.
Fps	String	25	The frame rate of the video. • The value is 60 if the frame rate of the input video exceeds 60. • Default value: the frame rate of the input video.
Preset	String	medium	The preset video algorithm. Valid values: veryfast, fast, medium, slow, and slower. Default value: medium.
ScanMode	String	interlaced	The scan mode. Valid values: • interlaced • progressive
ResoPriority	String	heightFirst	The policy of resolution adjustment. Valid values: CropFirst, widthFirst, and heightFirst.
TransConfig	Object		The general transcoding configuration.

Parameter	Type	Example	Description
IsCheckAudioBitrate	String	false	Indicates whether to check the audio bitrate. - If this feature is enabled and the system detects that the audio bitrate of the output file is greater than that of the input file, the audio bitrate of the input file is retained after transcoding. true: The audio bitrate is checked. false: The audio bitrate is not checked. - Default value: false.
TransMode	String	onepass	The transcoding mode. Default value: onepass. Valid values: onepass twopass CBR
IsCheckReso	String	false	Indicates whether to check the resolution. - If this feature is enabled and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, the resolution of the input file is retained after transcoding. true: The resolution is checked. false: The resolution is not checked. - Default value: false.
IsCheckVideoBitrateFail	String	false	Indicates whether to allow video bitrate check errors. true: If the video bitrate check fails, the input file is not transcoded. false: The video bitrate is not checked. - Default value: false. - This parameter takes precedence over the IsCheckVideoBitrate parameter.
AdjDarMethod	String	none	The method of resolution adjustment. Default value: none. Valid values: rescale: The input video is rescaled. crop: The input video is cropped. none: No change is made.

Parameter	Type	Example	Description
IsCheckVideoBitrate	String	false	Indicates whether to check the video bitrate. - If this feature is enabled and the system detects that the video bitrate of the output file is greater than that of the input file, the video bitrate of the input file is retained after transcoding. true: The video bitrate is checked. false: The video bitrate is not checked. - Default value: false.
IsCheckResoFail	String	false	Indicates whether to check the resolution. - If this feature is enabled and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, an error that indicates a transcoding failure is returned. true: The resolution is checked. false: The resolution is not checked. - Default value: false.
IsCheckAudioBitrateFail	String	false	Indicates whether to allow audio bitrate check errors. true: If the audio bitrate check fails, the input file is not transcoded. false: The audio bitrate is not checked. - Default value: false. - This parameter takes precedence over the IsCheckAudioBitrate parameter.
State	String	Normal	The status of the template. Normal: The template is normal. Deleted: The template is deleted.
MuxConfig	Object		The transmuxing configuration.
Webp	Object		The transmuxing configuration for WebP.
Loop	String	0	The loop count.
Gif	Object		The transmuxing configuration for GIF.

Parameter	Type	Example	Description
FinalDelay	String	0	The duration for which the final frame is paused.
DitherMode	String	sierra	The color dithering algorithm of the palette. Valid values: sierra and bayer.
Loop	String	0	The loop count.
IsCustomPalette	String	false	Indicates whether the custom palette is used.
Segment	Object		The segment configuration.
Duration	String	10	The length of the segment. Unit: seconds.
Name	String	MPS-example	The name of the template.
Audio	Object		The audio codec configuration.
Profile	String	aac_low	The codec profile of the audio. Valid values when the Codec parameter is set to aac: • aac_low • aac_he • aac_he_v2 • aac_ld • aac_eld
Remove	String	false	Indicates whether to delete the audio stream. • true: The audio stream is deleted. • false: The audio stream is retained. • Default value: false.

Parameter	Type	Example	Description
Codec	String	aac	The audio codec. Default value: aac. Valid values: • aac • mp3 • vorbis • flac
Samplerate	String	44100	The sampling rate. • Unit: Hz. • Default value: 44100.
Qscale	String	1	The strength of the independent noise reduction algorithm.
Channels	String	2	The number of sound channels. Default value: 2.
Bitrate	String	500	The audio bitrate of the output file. • Valid values: [8, 1000]. • Unit: Kbit/s. • Default value: 128.
Id	String	16f01ad6175e4230ac42bb5182cd****	The ID of the transcoding template.
Container	Object		The container configuration.
Format	String	flv	The container format. Valid values: flv, mp4, ts, m3u8, gif, mp3, ogg, and flac.
RequestId	String	BC860F04-778A-472F-AB39-E1BF329C1EA8	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=QueryTemplateList
&TemplateIds=16f01ad6175e4230ac42bb5182cd****,88c6ca184c0e424d5w5b665e2a12****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<QueryTemplateListResponse>
  <NonExistTids>88c6ca184c0e424d5w5b665e2a12****</NonExistTids>
  <TemplateList>
    <Video>
      <Bufsize>6000</Bufsize>
      <LongShortMode>false</LongShortMode>
      <Degrain>10</Degrain>
      <BitrateBnd>
        <Max>100</Max>
        <Min>500</Min>
      </BitrateBnd>
      <PixFmt>yuv420p</PixFmt>
      <Pad>1280:800:0:140</Pad>
      <Codec>H.264</Codec>
      <Height>800</Height>
      <Qscale>1</Qscale>
      <Crop>border</Crop>
      <Bitrate>200</Bitrate>
      <Maxrate>500</Maxrate>
      <MaxFps>60</MaxFps>
      <Profile>high</Profile>
      <Crf>15</Crf>
      <Remove>false</Remove>
      <Gop>10</Gop>
      <Width>256</Width>
      <Fps>25</Fps>
      <Preset>medium</Preset>
      <ScanMode>interlaced</ScanMode>
      <ResoPriority>heightFirst</ResoPriority>
    </Video>
    <TransConfig>
      <IsCheckAudioBitrate>false</IsCheckAudioBitrate>
      <TransMode>onepass</TransMode>
      <IsCheckReso>false</IsCheckReso>
      <IsCheckVideoBitrateFail>false</IsCheckVideoBitrateFail>
      <AdjDarMethod>none</AdjDarMethod>
      <IsCheckVideoBitrate>false</IsCheckVideoBitrate>
      <IsCheckResoFail>false</IsCheckResoFail>
      <IsCheckAudioBitrateFail>false</IsCheckAudioBitrateFail>
    </TransConfig>
    <State>Normal</State>
    <MuxConfig>
      <Webp>
        <Loop>0</Loop>
      </Webp>
      <Gif>
        <FinalDelay>0</FinalDelay>
        <DitherMode>sierra</DitherMode>
        <Loop>0</Loop>
```

```

        <IsCustomPalette>false</IsCustomPalette>
    </Gif>
    <Segment>
        <Duration>10</Duration>
    </Segment>
</MuxConfig>
<Name>MPS-example</Name>
<Audio>
    <Profile>aac_low</Profile>
    <Remove>false</Remove>
    <Codec>aac</Codec>
    <Samplerate>44100</Samplerate>
    <Qscale>1</Qscale>
    <Channels>2</Channels>
    <Bitrate>500</Bitrate>
</Audio>
<Id>16f01ad6175e4230ac42bb5182cd****</Id>
<Container>
    <Format>flv</Format>
</Container>
</TemplateList>
<RequestId>BC860F04-778A-472F-AB39-E1BF329C1EA8</RequestId>
</QueryTemplateListResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "NonExistTids" : [ "88c6ca184c0e424d5w5b665e2a12****" ],
  "TemplateList" : [ {
    "Video" : {
      "Bufsize" : "6000",
      "LongShortMode" : "false",
      "Degrain" : "10",
      "BitrateBnd" : {
        "Max" : "100",
        "Min" : "500"
      },
    },
    "PixFmt" : "yuv420p",
    "Pad" : "1280:800:0:140",
    "Codec" : "H.264",
    "Height" : "800",
    "Qscale" : "1",
    "Crop" : "border",
    "Bitrate" : "200",
    "Maxrate" : "500",
    "MaxFps" : "60",
    "Profile" : "high",
    "Crf" : "15",
    "Remove" : "false",
    "Gop" : "10",
    "Width" : "256",
    "Height" : "800"
  } ]
}

```

```

    "Fps" : "25",
    "Preset" : "medium",
    "ScanMode" : "interlaced",
    "ResoPriority" : "heightFirst"
  },
  "TransConfig" : {
    "IsCheckAudioBitrate" : "false",
    "TransMode" : "onepass",
    "IsCheckReso" : "false",
    "IsCheckVideoBitrateFail" : "false",
    "AdjDarMethod" : "none",
    "IsCheckVideoBitrate" : "false",
    "IsCheckResoFail" : "false",
    "IsCheckAudioBitrateFail" : "false"
  },
  "State" : "Normal",
  "MuxConfig" : {
    "Webp" : {
      "Loop" : "0"
    },
    "Gif" : {
      "FinalDelay" : "0",
      "DitherMode" : "sierra",
      "Loop" : "0",
      "IsCustomPalette" : "false"
    },
    "Segment" : {
      "Duration" : "10"
    }
  },
  "Name" : "MPS-example",
  "Audio" : {
    "Profile" : "aac_low",
    "Remove" : "false",
    "Codec" : "aac",
    "Samplerate" : "44100",
    "Qscale" : "1",
    "Channels" : "2",
    "Bitrate" : "500"
  },
  "Id" : "16f01ad6175e4230ac42bb5182cd****",
  "Container" : {
    "Format" : "flv"
  }
} ],
"RequestId" : "BC860F04-778A-472F-AB39-E1BF329C1EA8"
}

```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.4. SearchTemplate

Queries custom transcoding templates in the specified state.

Usage notes

You can call this operation to query custom transcoding templates in the specified state.

Limits on QPS

You can call this operation up to 100 times per second. If the number of the calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SearchTemplate	The operation that you want to perform. Set the value to SearchTemplate .
PageSize	Long	No	10	The number of entries to return on each page. - A maximum of 100 entries can be returned on each page. - Default value: 10.
PageNumber	Long	No	1	The number of the page to return. Default value: 1 .
State	String	No	Normal	The status of the custom transcoding templates that you want to query. All: All custom transcoding templates are queried. normal: Normal custom transcoding templates are queried. Deleted: Deleted custom transcoding templates are queried. - Default value: All.

Response parameters

Parameter	Type	Example	Description
TotalCount	Long	1	The total number of entries returned.
TemplateList	Array of Template		The details of the custom transcoding templates.
Template			
Video	Object		The video codec configuration.
Bufsize	String	6000	The size of the buffer. - Unit: KB. - Default value: 6000.
LongShortMode	String	false	Indicates whether to enable the auto-rotate screen feature. - If this feature is enabled, the width of the output video corresponds to the long side of the input video, which is the height of the input video in portrait mode. The height of the output video corresponds to the short side of the input video, which is the width of the input video in portrait mode. true: The auto-rotate screen feature is enabled. false: The auto-rotate screen feature is disabled. - Default value: false.
Degrain	String	10	The level of video quality control.
BitrateBnd	Object		The average bitrate range of the video.
Max	String	500	The upper limit of the total bitrate. Unit: Kbit/s.
Min	String	100	The lower limit of the total bitrate. Unit: Kbit/s.

Parameter	Type	Example	Description
PixFmt	String	yuv420p	The pixel format for video color encoding. Valid values: standard pixel formats such as yuv420p and yuvj420p.
Pad	String	1280:800:0:140	The black borders to be added to the video. • Format: width:height:left:top. • Example: 1280:800:0:140.
Codec	String	H.264	The video codec. • Valid values: H.264 and H.265. • Default value: H.264.
Height	String	800	The height of the video. • Unit: pixel. • Default value: the height of the input video.
Qscale	String	1	The strength of the independent noise reduction algorithm.
Crop	String	border	The method of video cropping. Valid values: • border: automatically detects and removes borders. • Other values: the custom cropping modes. Format: width:height:left:top. Example: 1280:800:0:140.
Bitrate	String	200	The average bitrate of the video. Unit: Kbit/s.
Maxrate	String	500	The maximum video bitrate. Unit: Kbit/s.
MaxFps	String	60	The maximum frame rate.

Parameter	Type	Example	Description
Profile	String	high	The codec profile. • baseline: applicable to mobile devices. • main: applicable to standard-definition devices. • high: applicable to high-definition devices. • Default value: high.
Crf	String	15	The constant rate factor. • Default value when the Codec parameter is set to H.264: 23. Default value when the Codec parameter is set to H.265: 26. • If this parameter is specified, the setting of Bitrate becomes invalid.
Remove	String	false	Indicates whether to delete the video stream. • true: The video stream is deleted. • false: The video stream is retained. • Default value: false.
Gop	String	10	The maximum number of frames between two keyframes. Default value: 250.
Width	String	256	The width of the video. • Valid values: [128, 4096]. • Unit: pixel. • Default value: the width of the input video.
Fps	String	25	The frame rate of the video. • The value is 60 if the frame rate of the input video exceeds 60. • Default value: the frame rate of the input video.

Parameter	Type	Example	Description
Preset	String	medium	The preset video algorithm. Default value: medium. Valid values: • veryfast • fast • medium • slow • slower
ScanMode	String	interlaced	The scan mode. Valid values: • interlaced • progressive
TransConfig	Object		The general transcoding configuration.
IsCheckAudioBitrate	String	false	Indicates whether to check the audio bitrate. • If this feature is enabled and the system detects that the audio bitrate of the output file is greater than that of the input file, the audio bitrate of the input file is retained after transcoding. • true: The audio bitrate is checked. • false: The audio bitrate is not checked. • Default value: false.
TransMode	String	onepass	The transcoding mode. Default value: onepass. Valid values: • onepass • twopass • CBR
IsCheckReso	String	false	Indicates whether to check the resolution. • If this feature is enabled and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, the resolution of the input file is retained after transcoding. • true: The resolution is checked. • false: The resolution is not checked. • Default value: false.

Parameter	Type	Example	Description
IsCheckVideoBitrateFail	String	false	Indicates whether to allow video bitrate check errors. • true: If the video bitrate check fails, the input file is not transcoded. • false: The video bitrate is not checked. • Default value: false. • This parameter takes precedence over the IsCheckVideoBitrate parameter.
AdjDarMethod	String	none	The method of resolution adjustment. Default value: none. Valid values: • rescale: The input video is rescaled. • crop: The input video is cropped. • none: No change is made.
IsCheckVideoBitrate	String	false	Indicates whether to check the video bitrate. • If this feature is enabled and the system detects that the video bitrate of the output file is greater than that of the input file, the video bitrate of the input file is retained after transcoding. • true: The video bitrate is checked. • false: The video bitrate is not checked. • Default value: false.
IsCheckResoFail	String	false	Indicates whether to check the resolution. • If this feature is enabled and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, an error that indicates a transcoding failure is returned. • true: The resolution is checked. • false: The resolution is not checked. • Default value: false.

Parameter	Type	Example	Description
IsCheckAudioBitrateFail	String	false	Indicates whether to allow audio bitrate check errors. • true: If the audio bitrate check fails, the input file is not transcoded. • false: The audio bitrate is not checked. • Default value: false. • This parameter takes precedence over the IsCheckAudioBitrate parameter.
State	String	Normal	The status of the template. • Normal: The template is normal. • Deleted: The template is deleted.
MuxConfig	Object		The transmuxing configuration.
Gif	Object		The transmuxing configuration for GIF.
FinalDelay	String	0	The duration for which the final frame is paused. Unit: centiseconds.
DitherMode	String	sierra	The color dithering algorithm of the palette. Valid values: sierra and bayer.
Loop	String	0	The loop count.
IsCustomPalette	String	false	Indicates whether the custom palette is used.
Segment	Object		The segment configuration.
Duration	String	10	The length of the segment. Unit: seconds.
Name	String	MPS-example	The name of the template.
Audio	Object		The audio codec configuration.

Parameter	Type	Example	Description
Profile	String	aac_low	The codec profile of the audio. Valid values when the Codec parameter is set to aac: • aac_low • aac_he • aac_he_v2 • aac_ld • aac_eld
Remove	String	false	Indicates whether to delete the audio stream. • true: The audio stream is deleted. • false: The audio stream is retained. • Default value: false.
Codec	String	aac	The audio codec. Default value: aac. Valid values: • aac • mp3 • vorbis • flac
Samplerate	String	44100	The sampling rate. • Unit: Hz. • Default value: 44100.
Qscale	String	1	The strength of the independent noise reduction algorithm. Valid values: [1, 9].
Channels	String	2	The number of sound channels. Default value: 2.
Bitrate	String	500	The audio bitrate of the output file. • Unit: Kbit/s. • Default value: 128.
Id	String	16f01ad6175e4230ac42bb5182cd****	The ID of the transcoding template.
Container	Object		The container configuration.

Parameter	Type	Example	Description
Format	String	mp4	The container format. Valid values: • flv • mp4 • ts • m3u8 • gif • mp3 • ogg • flac
PageSize	Long	10	The number of entries returned per page.
RequestId	String	BC860F04-778A-472F-AB39-E1BF329C****	The ID of the request.
PageNumber	Long	1	The page number of the returned page.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=SearchTemplate
&PageSize=10
&PageNumber=1
&State=Normal
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<SearchTemplateResponse>
  <TotalCount>1</TotalCount>
  <TemplateList>
    <Video>
      <Bufsize>6000</Bufsize>
      <LongShortMode>false</LongShortMode>
      <Degrain>10</Degrain>
      <BitrateBnd>
        <Max>500</Max>
        <Min>100</Min>
      </BitrateBnd>
      <PixFmt>yuv420p</PixFmt>
      <Pad>1280:800:0:140</Pad>
```

```

    <Codec>H.264</Codec>
    <Height>800</Height>
    <Qscale>1</Qscale>
    <Crop>border</Crop>
    <Bitrate>200</Bitrate>
    <Maxrate>500</Maxrate>
    <MaxFps>60</MaxFps>
    <Profile>high</Profile>
    <Crf>15</Crf>
    <Remove>>false</Remove>
    <Gop>10</Gop>
    <Width>256</Width>
    <Fps>25</Fps>
    <Preset>medium</Preset>
    <ScanMode>interlaced</ScanMode>
</Video>
<TransConfig>
    <IsCheckAudioBitrate>>false</IsCheckAudioBitrate>
    <TransMode>onepass</TransMode>
    <IsCheckReso>>false</IsCheckReso>
    <IsCheckVideoBitrateFail>>false</IsCheckVideoBitrateFail>
    <AdjDarMethod>none</AdjDarMethod>
    <IsCheckVideoBitrate>>false</IsCheckVideoBitrate>
    <IsCheckResoFail>>false</IsCheckResoFail>
    <IsCheckAudioBitrateFail>>false</IsCheckAudioBitrateFail>
</TransConfig>
<State>Normal</State>
<MuxConfig>
    <Gif>
        <FinalDelay>0</FinalDelay>
        <DitherMode>sierra</DitherMode>
        <Loop>0</Loop>
        <IsCustomPalette>>false</IsCustomPalette>
    </Gif>
    <Segment>
        <Duration>10</Duration>
    </Segment>
</MuxConfig>
<Name>MPS-example</Name>
<Audio>
    <Profile>aac_low</Profile>
    <Remove>>false</Remove>
    <Codec>aac</Codec>
    <Samplerate>44100</Samplerate>
    <Qscale>1</Qscale>
    <Channels>2</Channels>
    <Bitrate>500</Bitrate>
</Audio>
<Id>16f01ad6175e4230ac42bb5182cd****</Id>
<Container>
    <Format>mp4</Format>
</Container>
</TemplateList>
<PageSize>10</PageSize>

```

```
<RequestId>BC860F04-778A-472F-AB39-E1BF329C****</RequestId>
<PageNumber>1</PageNumber>
</SearchTemplateResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "TotalCount" : 1,
  "TemplateList" : [ {
    "Video" : {
      "Bufsize" : "6000",
      "LongShortMode" : "false",
      "Degrain" : "10",
      "BitrateBnd" : {
        "Max" : "500",
        "Min" : "100"
      },
      "PixFmt" : "yuv420p",
      "Pad" : "1280:800:0:140",
      "Codec" : "H.264",
      "Height" : "800",
      "Qscale" : "1",
      "Crop" : "border",
      "Bitrate" : "200",
      "Maxrate" : "500",
      "MaxFps" : "60",
      "Profile" : "high",
      "Crf" : "15",
      "Remove" : "false",
      "Gop" : "10",
      "Width" : "256",
      "Fps" : "25",
      "Preset" : "medium",
      "ScanMode" : "interlaced"
    },
    "TransConfig" : {
      "IsCheckAudioBitrate" : "false",
      "TransMode" : "onepass",
      "IsCheckReso" : "false",
      "IsCheckVideoBitrateFail" : "false",
      "AdjDarMethod" : "none",
      "IsCheckVideoBitrate" : "false",
      "IsCheckResoFail" : "false",
      "IsCheckAudioBitrateFail" : "false"
    },
    "State" : "Normal",
    "MuxConfig" : {
      "Gif" : {
        "FinalDelay" : "0",
        "DitherMode" : "sierra",
        "Loop" : "0",
        "IsCustomPalette" : "false"
      }
    }
  }
]
```

```
    },
    "Segment" : {
      "Duration" : "10"
    }
  },
  "Name" : "MPS-example",
  "Audio" : {
    "Profile" : "aac_low",
    "Remove" : "false",
    "Codec" : "aac",
    "Samplerate" : "44100",
    "Qscale" : "1",
    "Channels" : "2",
    "Bitrate" : "500"
  },
  "Id" : "16f01ad6175e4230ac42bb5182cd****",
  "Container" : {
    "Format" : "mp4"
  }
} ],
"PageSize" : 10,
"RequestId" : "BC860F04-778A-472F-AB39-E1BF329C****",
"PageNumber" : 1
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

8.5. DeleteTemplate

Deletes a custom transcoding template.

Usage notes

A custom transcoding template cannot be deleted if it is being used by a job that has been submitted.

Limits on QPS

You can call this operation up to 100 times per second. If the number of the calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	No	DeleteTemplate	The operation that you want to perform. Set the value to DeleteTemplate .
TemplateId	String	Yes	16f01ad6175e4230ac42bb5182cd****	The ID of the custom transcoding template that you want to delete. To obtain the ID of the custom transcoding template, you can log on to the ApsaraVideo Media Processing (MPS) console and choose Global Settings > Encoding Templates in the left-side navigation pane.

Response parameters

Parameter	Type	Example	Description
RequestId	String	2247541A-9F27-47EE-B6EC-484B5475****	The ID of the request.
TemplateId	String	16f01ad6175e4230ac42bb5182cd****	The ID of the custom transcoding template that is deleted.

Examples

Sample requests

```
http(s)://mts.cn-shanghai.aliyuncs.com/?Action=DeleteTemplate
&ResourceOwnerId=0
&TemplateId=16f01ad6175e4230ac42bb5182cd****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeleteTemplateResponse>
  <RequestId>2247541A-9F27-47EE-B6EC-484B5475****</RequestId>
  <TemplateId>16f01ad6175e4230ac42bb5182cd****</TemplateId>
</DeleteTemplateResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "2247541A-9F27-47EE-B6EC-484B5475****",
  "TemplateId" : "16f01ad6175e4230ac42bb5182cd****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9. MPS queue management

9.1. UpdatePipeline

Updates an ApsaraVideo Media Processing (MPS) queue.

Usage notes

- You can call this operation to modify the name, status, and notification settings of a specified MPS queue.
- If a paused MPS queue is selected in a workflow or a job, such as a video review or media fingerprint job, the workflow or job fails.

Limits on QPS

You can call this operation up to 100 times per second. If the number of the calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdatePipeline	The operation that you want to perform. Set the value to UpdatePipeline .
PipelineId	String	Yes	d1ce4d3efcb549419193f50f1fcd**	The ID of the MPS queue that you want to update. To obtain the ID of the MPS queue, you can log on to the MPS console and choose Global Settings > Pipelines in the left-side navigation pane.
Name	String	Yes	example-pipeline-****	The new name of the MPS queue. The value can contain letters, digits, and special characters such as hyphens (-) and can be up to 128 bytes in size. The value cannot start with a special character.

Parameter	Type	Required	Example	Description
State	String	Yes	Paused	The new state of the MPS queue. • Active: The MPS queue is active. Jobs in the MPS queue can be scheduled and run by MPS. • Paused: The MPS queue is paused. Jobs in the MPS queue cannot be scheduled or run by MPS, and all jobs remain in the Submitted state. Jobs that are running will not be affected.
NotifyConfig	String	No	null	The Message Service (MNS) configuration, such as the information about the MNS queue or topic. For more information, see NotifyConfig.
Role	String	No	AliyunMTSDefaultRole	The role that is assigned to the current RAM user. To obtain the role, you can log on to the RAM console and choose Identities > Roles in the left-side navigation pane.

Response parameters

Parameter	Type	Example	Description
RequestId	String	1FE0F96B-544D-4244-9D83-DFCFB0E5A231	The ID of the request.
Pipeline	Object		The details of the MPS queue.

Parameter	Type	Example	Description
Speed	String	Standard	The type of the MPS queue. Default value: Standard. Valid values: • Boost: MPS queue with transcoding speed boosted. • Standard: standard MPS queue. • NarrowBandHDV2: MPS queue that supports Narrowband HD™ 2.0. • AIVideoCover: MPS queue for intelligent snapshot capture. • AIVideoFPShot: MPS queue for media fingerprinting. • AIVideoCensor: MPS queue for automated review. • AIVideoMCU: MPS queue for smart tagging. • AIVideoSummary: MPS queue for video synopsis. • AIVideoPorn: MPS queue for pornography detection in videos. • AIAudioKWS: MPS queue for keyword recognition in audio. • AIAudioASR: MPS queue for speech-to-text conversion.
State	String	Paused	The status of the pipeline. Valid values: • Active: The MPS queue is active. • Paused: The MPS queue is paused.
NotifyConfig	Object		The MNS configuration.
MqTopic	String	example1,example2	The queue of messages that are received.
QueueName	String	example-queue-****	The queue that is created in MNS.
MqTag	String	mts-test	The tags of the messages.
Topic	String	example-topic-****	The topic that is created in MNS.
Name	String	example-pipeline-****	The new name of the MPS queue.

Parameter	Type	Example	Description
Role	String	AliyunMTSExampleRole	The role that is assigned to the current RAM user.
Id	String	d1ce4d3efcb549419193f50f1fcd****	The ID of the MPS queue.
QuotaAllocate	Long	10	The quota that is allocated to the MPS queue.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=UpdatePipeline
&PipelineId=d1ce4d3efcb549419193f50f1fcd****
&Name=example-pipeline-****
&State=Paused
&NotifyConfig={"Topic":"example-topic-****"}
&Role=AliyunMTSDefaultRole
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdatePipelineResponse>
  <RequestId>1FE0F96B-544D-4244-9D83-DFCFB0E5A231</RequestId>
  <Pipeline>
    <Speed>Standard</Speed>
    <State>Paused</State>
    <NotifyConfig>
      <MqTopic>example1,example2</MqTopic>
      <QueueName>example-queue-****</QueueName>
      <MqTag>mts-test</MqTag>
      <Topic>example-topic-****</Topic>
    </NotifyConfig>
    <Name>example-pipeline-****</Name>
    <Role>AliyunMTSExampleRole</Role>
    <Id>d1ce4d3efcb549419193f50f1fcd****</Id>
    <QuotaAllocate>10</QuotaAllocate>
  </Pipeline>
</UpdatePipelineResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "1FE0F96B-544D-4244-9D83-DFCFB0E5A231",
  "Pipeline" : {
    "Speed" : "Standard",
    "State" : "Paused",
    "NotifyConfig" : {
      "MqTopic" : "example1,example2",
      "QueueName" : "example-queue-****",
      "MqTag" : "mts-test",
      "Topic" : "example-topic-****"
    },
    "Name" : "example-pipeline-****",
    "Role" : "AliyunMTSExampleRole",
    "Id" : "d1ce4d3efcb549419193f50f1fcd****",
    "QuotaAllocate" : 10
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.2. QueryPipelineList

Queries MPS queues.

Usage notes

You can call this operation to query up to 10 MPS queues at a time.

Limits on QPS

You can call this operation up to 100 times per second. If the number of the calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	QueryPipelineList	The operation that you want to perform. Set the value to QueryPipelineList .

Parameter	Type	Required	Example	Description
PipelineIds	String	Yes	d1ce4d3efcb549 419193f50f1fcd** **,72dfa5e679ab 4be9a3ed9974c7 36****	The IDs of the MPS queues that you want to query. To view the IDs, you can log on to the MPS console and choose Global Settings > Pipelines in the left-side navigation pane. You can query up to 10 MPS queues at a time. Separate multiple IDs of MPS queues with commas (,).

Response parameters

Parameter	Type	Example	Description
RequestId	String	1C538EAA-ACAF- 5AD8-B091- A72C63007149	The ID of the request.
PipelineList	Array of Pipeline		The details of the MPS queues.
Pipeline			
Speed	String	Standard	The type of the MPS queue. Default value: Standard. Valid values: • Boost: MPS queue with transcoding speed boosted. • Standard: standard MPS queue. • NarrowBandHDV2: MPS queue that supports Narrowband HD™ 2.0. • AIVideoCover: MPS queue for intelligent snapshot capture. • AIVideoFPShot: MPS queue for media fingerprinting. • AIVideoCensor: MPS queue for automated review. • AIVideoMCU: MPS queue for smart tagging. • AIVideoSummary: MPS queue for video synopsis. • AIVideoPorn: MPS queue for pornography detection in videos. • AIAudioKWS: MPS queue for keyword recognition in audio. • AIAudioASR: MPS queue for speech-to-text conversion.

Parameter	Type	Example	Description
State	String	Paused	The status of the pipeline. • Active: The MPS queue is active. • Paused: The MPS queue is paused.
NotifyConfig	Object		The MNS configuration.
QueueName	String	example-queue-****	The name of the queue that is created in MNS.
Topic	String	example-topic-****	The name of the topic that is created in MNS.
Role	String	AliyunMTSDefaultRole	The role that is assigned to the current RAM user.
Name	String	example-pipeline-****	The name of the MPS queue.
Id	String	d1ce4d3efcb549419193f50f1fcd****	The ID of the MPS queue.
NotExistPids	Array of String	72dfa5e679ab4be9a3ed9974c736****	The MPS queue IDs that do not exist. This parameter is not returned if all specified MPS queues are found.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=QueryPipelineList
&PipelineIds=d1ce4d3efcb549419193f50f1fcd****,72dfa5e679ab4be9a3ed9974c736****
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<QueryPipelineListResponse>
  <RequestId>1C538EAA-ACAF-5AD8-B091-A72C63007149</RequestId>
  <PipelineList>
    <Speed>Standard</Speed>
    <State>Paused</State>
    <NotifyConfig>
      <QueueName>example-queue-****</QueueName>
      <Topic>example-topic-****</Topic>
    </NotifyConfig>
    <Role>AliyunMTSDefaultRole</Role>
    <Name>example-pipeline-****</Name>
    <Id>d1ce4d3efcb549419193f50f1fcd****</Id>
  </PipelineList>
  <NonExistPids>72dfa5e679ab4be9a3ed9974c736****</NonExistPids>
</QueryPipelineListResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "1C538EAA-ACAF-5AD8-B091-A72C63007149",
  "PipelineList" : [ {
    "Speed" : "Standard",
    "State" : "Paused",
    "NotifyConfig" : {
      "QueueName" : "example-queue-****",
      "Topic" : "example-topic-****"
    },
    "Role" : "AliyunMTSDefaultRole",
    "Name" : "example-pipeline-****",
    "Id" : "d1ce4d3efcb549419193f50f1fcd****"
  } ],
  "NonExistPids" : [ "72dfa5e679ab4be9a3ed9974c736****" ]
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

9.3. SearchPipeline

Queries ApsaraVideo Media Processing (MPS) queues in the specified state.

Usage notes

You can call this operation to query MPS queues in the specified state. If you do not specify the state, all MPS queues are queried by default.

Limits on QPS

You can call this operation up to 100 times per second. If the number of the calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SearchPipeline	The operation that you want to perform. Set the value to SearchPipeline .
PageSize	Long	No	10	The number of entries to return on each page. - A maximum of 100 entries can be returned on each page. - Default value: 10.
PageNumber	Long	No	1	The number of the page to return. Default value: 1 .
State	String	No	Paused	The status of the MPS queues that you want to query. If you leave this parameter empty, all MPS queues are queried. All: All MPS queues are queried. Active: Active MPS queues are queried. Paused: Paused MPS queues are queried. - Default value: All.

Response parameters

Parameter	Type	Example	Description
TotalCount	Long	1	The total number of entries returned.
PageSize	Long	10	The number of entries returned per page.

Parameter	Type	Example	Description
RequestId	String	338CA33A-AE83-5DF4-B6F2-C6D3ED8143F5	The ID of the request.
PageNumber	Long	1	The page number of the returned page.
PipelineList	Array of Pipeline		The details of the MPS queues.
Pipeline			
Speed	String	Standard	The type of the MPS queue. Default value: Standard. Valid values: • Boost: MPS queue with transcoding speed boosted. • Standard: standard MPS queue. • NarrowBandHDV2: MPS queue that supports Narrowband HD™ 2.0. • AIVideoCover: MPS queue for intelligent snapshot capture. • AIVideoFPS: MPS queue for media fingerprinting. • AIVideoCensor: MPS queue for automated review. • AIVideoMCU: MPS queue for smart tagging. • AIVideoSummary: MPS queue for video synopsis. • AIVideoPorn: MPS queue for pornography detection in videos. • AIAudioKWS: MPS queue for keyword recognition in audio. • AIAudioASR: MPS queue for speech-to-text conversion.
State	String	Paused	The status of the pipeline. Valid values: • Active: The MPS queue is active. • Paused: The MPS queue is paused.
NotifyConfig	Object		The MNS notification configuration.
QueueName	String	example-queue-****	The name of the queue that is created in MNS.

Parameter	Type	Example	Description
Topic	String	example-topic-****	The name of the topic that is created in MNS.
Role	String	AliyunMTSDefaultRole	The role that is assigned to the current RAM user.
Name	String	example-pipeline-****	The name of the MPS queue.
Id	String	d1ce4d3efcb549419193f50f1fcd****	The ID of the MPS queue.

Examples

Sample requests

```
http(s)://mts.cn-shanghai.aliyuncs.com/?Action=SearchPipeline
&PageSize=10
&PageNumber=1
&State=Paused
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<SearchPipelineResponse>
  <TotalCount>1</TotalCount>
  <PageSize>10</PageSize>
  <RequestId>338CA33A-AE83-5DF4-B6F2-C6D3ED8143F5</RequestId>
  <PageNumber>1</PageNumber>
  <PipelineList>
    <Speed>Standard</Speed>
    <State>Paused</State>
    <NotifyConfig>
      <QueueName>example-queue-****</QueueName>
      <Topic>example-topic-****</Topic>
    </NotifyConfig>
    <Role>AliyunMTSDefaultRole</Role>
    <Name>example-pipeline-****</Name>
    <Id>d1ce4d3efcb549419193f50f1fcd****</Id>
  </PipelineList>
</SearchPipelineResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "TotalCount" : 1,
  "PageSize" : 10,
  "RequestId" : "338CA33A-AE83-5DF4-B6F2-C6D3ED8143F5",
  "PageNumber" : 1,
  "PipelineList" : [ {
    "Speed" : "Standard",
    "State" : "Paused",
    "NotifyConfig" : {
      "QueueName" : "example-queue-****",
      "Topic" : "example-topic-****"
    },
    "Role" : "AliyunMTSDefaultRole",
    "Name" : "example-pipeline-****",
    "Id" : "d1ce4d3efcb549419193f50f1fcd****"
  } ]
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10. Watermark template management

10.1. AddWaterMarkTemplate

Creates a watermark template.

Usage notes

After you create a watermark template by calling this operation, you can specify the watermark template and watermark asset when you [submit a transcoding job](#). This allows you to add watermark information to the output video.

Limits on QPS

You can call this operation up to 100 times per second. If the number of the calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). [OpenAPI Explorer](#) dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	AddWaterMarkTemplate	The operation that you want to perform. Set the value to AddWaterMarkTemplate .
Name	String	Yes	example-watermark-****	The name of the watermark template. The value can contain letters and digits and can be up to 128 bytes in size.
Config	String	Yes	null	The configuration of the watermark template. The value is a JSON object. The Type field must be set to Image. For more information, see Watermark template configuration .

Response parameters

Parameter	Type	Example	Description
WaterMarkTemplate	Object		The details of the watermark template.
Type	String	Image	The type of the watermark.
RatioRefer	Object		The values of the Height, Width, Dx, and Dy parameters relative to the reference edges. If the values of the Height, Width, Dx, and Dy parameters are decimals between 0 and 1, the values are calculated by referring to the following edges in sequence: • Width: the width edge. • Height: the height edge. • Long: the long edge. • Short: the short edge.
Dx	String	0.51	The horizontal offset of the watermark image relative to the output video. Default value: 0. The default value indicates no offset. The value can be an integer or a decimal. • Integer: the horizontal offset. Unit: pixel. • Decimal: the ratio of the horizontal offset to the width of the output video. Four decimal places are supported, such as 0.9999. More decimal places are discarded.
Width	String	0.36	The width of the watermark image in the output video. The value can be an integer or a decimal. • Integer: the width of the watermark image. Unit: pixel. • Decimal: the ratio of the width of the watermark image to the width of the output video. Four decimal places are supported, such as 0.9999. More decimal places are discarded.

Parameter	Type	Example	Description
Height	String	0.33	The height of the watermark image in the output video. The value can be an integer or a decimal. • Integer: the height of the watermark image. Unit: pixel. • Decimal: the ratio of the height of the watermark image to the height of the output video. Four decimal places are supported, such as 0.9999. More decimal places are discarded.
Dy	String	0.28	The vertical offset of the watermark image relative to the output video. Default value: 0. The default value indicates no offset. The value can be an integer or a decimal. • Integer: the vertical offset. Unit: pixel. • Decimal: the ratio of the vertical offset to the height of the output video. Four decimal places are supported, such as 0.9999. More decimal places are discarded.
ReferPos	String	TopRight	The position of the watermark. Valid values: • TopRight: the upper-right corner. • TopLeft: the upper-left corner. • BottomRight: the lower-right corner. • BottomLeft: the lower-left corner.
State	String	Normal	The status of the watermark template. Valid values: • Normal: The watermark template is normal. • Deleted: The watermark template is deleted.
Dx	String	10	The horizontal offset. Unit: pixel.
Width	String	10	The width of the watermark image. Unit: pixel.
Height	String	30	The height of the watermark image. Unit: pixel.

Parameter	Type	Example	Description
Timeline	Object		The timeline of the watermark.
Start	String	0	The beginning of the time range in which the watermark is displayed. - Unit: seconds. - Default value: 0.
Duration	String	ToEND	The time range in which the watermark is displayed. Default value: ToEND . The default value indicates that the watermark is displayed until the video ends.
Name	String	example-watermark-****	The name of the watermark template.
Dy	String	5	The vertical offset. Unit: pixel.
Id	String	3780bd69b2b74540bc7b1096f564****	The ID of the watermark template. We recommend that you keep this ID for subsequent operation calls.
RequestId	String	54BB917F-DD35-4F32-BABA-E60E31B21W63	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-shanghai.aliyuncs.com/?Action=AddWaterMarkTemplate
&Name=example-watermark-****
&Config={"Width": "10", "Height": "30", "Dx": "10", "Dy": "5", "ReferPos": "TopRight", "Type": "Image",
"Timeline": {"Start": "0", "Duration": "10"}}
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<AddWaterMarkTemplateResponse>
  <WaterMarkTemplate>
    <Type>Image</Type>
    <RatioRefer>
      <Dx>0.51</Dx>
      <Width>0.36</Width>
      <Height>0.33</Height>
      <Dy>0.28</Dy>
    </RatioRefer>
    <ReferPos>TopRight</ReferPos>
    <State>Normal</State>
    <Dx>10</Dx>
    <Width>10</Width>
    <Height>30</Height>
    <Timeline>
      <Start>0</Start>
      <Duration>ToEND</Duration>
    </Timeline>
    <Name>example-watermark-****</Name>
    <Dy>5</Dy>
    <Id>3780bd69b2b74540bc7b1096f564****</Id>
  </WaterMarkTemplate>
  <RequestId>54BB917F-DD35-4F32-BABA-E60E31B21W63</RequestId>
</AddWaterMarkTemplateResponse>
```

JSON **format**

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "WaterMarkTemplate" : {
    "Type" : "Image",
    "RatioRefer" : {
      "Dx" : "0.51",
      "Width" : "0.36",
      "Height" : "0.33",
      "Dy" : "0.28"
    },
    "ReferPos" : "TopRight",
    "State" : "Normal",
    "Dx" : "10",
    "Width" : "10",
    "Height" : "30",
    "Timeline" : {
      "Start" : "0",
      "Duration" : "ToEND"
    },
    "Name" : "example-watermark-****",
    "Dy" : "5",
    "Id" : "3780bd69b2b74540bc7b1096f564****"
  },
  "RequestId" : "54BB917F-DD35-4F32-BABA-E60E31B21W63"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.2. UpdateWaterMarkTemplate

Updates a watermark template.

Usage notes

- You can call this operation to update the information about a watermark template based on the ID of the watermark template. For example, you can update the name and configuration of a watermark template.
- A watermark template cannot be updated if it is being used by a job that has been submitted.

Limits on QPS

You can call this operation up to 100 times per second. If the number of the calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateWaterMarkTemplate	The operation that you want to perform. Set the value to UpdateWaterMarkTemplate .
WaterMarkTemplateId	String	Yes	3780bd69b2b74540bc7b1096f564***	The ID of the watermark template that you want to update. To obtain the ID of the watermark template, you can log on to the ApsaraVideo Media Processing (MPS) console and choose Global Settings > Watermark Templates in the left-side navigation pane.
Name	String	Yes	example-watermark-****	The new name of the watermark template. The value can contain letters and digits and can be up to 128 bytes in size.
Config	String	Yes	{"Width": "10", "Height": "30", "Dx": "10", "Dy": "5", "Type": "Image", "Timeline": {"Start": "0", "Duration": "10"}}	The updated configuration of the watermark template. The value is a JSON object. For more information, see Watermark template configuration .

Response parameters

Parameter	Type	Example	Description
WaterMarkTemplate	Object		The details of the watermark template.
Type	String	Image	The type of the watermark. Valid values: - Image - Text  Note Only watermarks of the Image types are supported.

Parameter	Type	Example	Description
RatioRefer	Object		The values of the Height, Width, Dx, and Dy parameters relative to the reference edges. If the values of the Height, Width, Dx, and Dy parameters are decimals between 0 and 1, the values are calculated by referring to the following edges in sequence: • Width: the width edge. • Height: the height edge. • Long: the long edge. • Short: the short edge.
Dx	String	0.51	The horizontal offset of the watermark image relative to the output video. Default value: 0. The default value indicates no offset. The value can be an integer or a decimal. • Integer: the horizontal offset. Unit: pixel. • Decimal: the ratio of the horizontal offset to the width of the output video. Four decimal places are supported, such as 0.9999. More decimal places are discarded.
Width	String	0.36	The width of the watermark image in the output video. The value can be an integer or a decimal. • Integer: the width of the watermark image. Unit: pixel. • Decimal: the ratio of the width of the watermark image to the width of the output video. Four decimal places are supported, such as 0.9999. More decimal places are discarded.
Height	String	0.33	The height of the watermark image in the output video. The value can be an integer or a decimal. • Integer: the height of the watermark image. Unit: pixel. • Decimal: the ratio of the height of the watermark image to the height of the output video. Four decimal places are supported, such as 0.9999. More decimal places are discarded.

Parameter	Type	Example	Description
Dy	String	0.28	The vertical offset of the watermark image relative to the output video. Default value: 0. The default value indicates no offset. The value can be an integer or a decimal. • Integer: the vertical offset. Unit: pixel. • Decimal: the ratio of the vertical offset to the height of the output video. Four decimal places are supported, such as 0.9999. More decimal places are discarded.
ReferPos	String	TopRight	The position of the watermark. Valid values: • TopRight: the upper-right corner. • TopLeft: the upper-left corner. • BottomRight: the lower-right corner. • BottomLeft: the lower-left corner.
State	String	Normal	The status of the watermark template. Default value: Normal.
Dx	String	10	The horizontal offset. Unit: pixel.
Width	String	10	The width of the watermark image. Unit: pixel.
Height	String	30	The height of the watermark image. Unit: pixel.
Timeline	Object		The timeline of the watermark.
Start	String	0	The beginning of the time range in which the watermark is displayed. • Unit: seconds. • Default value: 0.
Duration	String	10	The time range in which the watermark is displayed. Default value: ToEND. The default value indicates that the watermark is displayed until the video ends.

Parameter	Type	Example	Description
Name	String	example-watermark-****	The name of the watermark template.
Dy	String	5	The vertical offset. Unit: pixel.
Id	String	3780bd69b2b74540bc7b1096f564****	The ID of the watermark template. We recommend that you keep this ID for subsequent operation calls.
RequestId	String	E558894E-40D9-57C6-B5CC-0F5CDF23614E	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-shanghai.aliyuncs.com/?Action=UpdateWaterMarkTemplate
&ResourceOwnerId=0
&WaterMarkTemplateId=3780bd69b2b74540bc7b1096f564****
&Name=example-watermark-****
&Config={"Width":"10","Height":"30","Dx":"10","Dy":"5","Type":"Image","Timeline":{"Start":
0","Duration":"10"}}
&<Common request parameters>
```

Sample success responses

`XML` format


```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateWaterMarkTemplateResponse>
  <WaterMarkTemplate>
    <Type>Image</Type>
    <RatioRefer>
      <Dx>0.51</Dx>
      <Width>0.36</Width>
      <Height>0.33</Height>
      <Dy>0.28</Dy>
    </RatioRefer>
    <ReferPos>TopRight</ReferPos>
    <State>Normal</State>
    <Dx>10</Dx>
    <Width>10</Width>
    <Height>30</Height>
    <Timeline>
      <Start>0</Start>
      <Duration>10</Duration>
    </Timeline>
    <Name>example-watermark-****</Name>
    <Dy>5</Dy>
    <Id>3780bd69b2b74540bc7b1096f564****</Id>
  </WaterMarkTemplate>
  <RequestId>E558894E-40D9-57C6-B5CC-0F5CDF23614E</RequestId>
</UpdateWaterMarkTemplateResponse>
```

JSON **format**

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "WaterMarkTemplate" : {
    "Type" : "Image",
    "RatioRefer" : {
      "Dx" : "0.51",
      "Width" : "0.36",
      "Height" : "0.33",
      "Dy" : "0.28"
    },
    "ReferPos" : "TopRight",
    "State" : "Normal",
    "Dx" : "10",
    "Width" : "10",
    "Height" : "30",
    "Timeline" : {
      "Start" : "0",
      "Duration" : "10"
    },
    "Name" : "example-watermark-****",
    "Dy" : "5",
    "Id" : "3780bd69b2b74540bc7b1096f564****"
  },
  "RequestId" : "E558894E-40D9-57C6-B5CC-0F5CDF23614E"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

10.3. QueryWaterMarkTemplateList

The QueryWaterMarkTemplateList API queries details about watermark templates by watermark template ID.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>QueryWaterMarkTemplateList</i>
WaterMarkTemplateIds	String	Yes	List of watermark template IDs separated by commas (,). Up to 10 template IDs can be entered.

Response parameters

Parameter	Type	Description
WaterMarkTemplateList	AliyunWaterMarkTemplate[]	List of watermark templates.
NotExistWids	String[]	List of non-existing watermark templates. If no data exists, this structure is not returned.

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?WaterMarkTemplateIds=88c6ca184c0e47098a5b665e2a126797&Action=QueryWaterMarkTemplateList<Public parameter>
```

Response example

XML

```
<QueryWaterMarkTemplateListResponse>
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
  <TotalCount>1</TotalCount>
  <PageNumber>1</PageNumber>
  <PageSize>10</PageSize>
  <WaterMarkTemplateList list="true">
    <WaterMarkTemplate>
      <Id>88c6ca184c0e47098a5b665e2a126797</Id>
      <Name>example-watermark</Name>
      <Width>10</Width>
      <Height>30</Height>
      <Dx>10</Dx>
      <Dy>5</Dy>
      <ReferPos>TopRight</ReferPos>
      <Type>Image</Type>
      <State>Normal</State>
    </WaterMarkTemplate>
  </WaterMarkTemplateList>
</QueryWaterMarkTemplateListResponse>
```

JSON

```
{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "TotalCount": 1,
  "PageNumber": 1,
  "PageSize": 10,
  "WaterMarkTemplateList": {
    "WaterMarkTemplate": [{
      "Id": "88c6ca184c0e47098a5b665e2a126797",
      "Name": "example-watermark",
      "Width": "10",
      "Height": "30",
      "Dx": "10",
      "Dy": "5",
      "ReferPos": "TopRight",
      "Type": "Image",
      "State": "Normal"
    }]
  }
}
```

10.4. SearchWaterMarkTemplate

The SearchWaterMarkTemplate API searches for watermark templates in the specified state.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>SearchWaterMarkTemplate</i>
PageNumber	Long	No	Current page number, • which starts from 1. • Default value: 1.
PageSize	Long	No	When querying by page, this parameter indicates the size of each page. • Maximum value: 100. • Default value: 10.

Parameters	Type	Required or not	Description
State	String	No	Watermark template status. • All indicates all states, • Normal indicates normal templates, • and Deleted indicates deleted templates. Default value: All.

Response parameters

Name	Type	Description
WaterMarkTemplateList	AliyunWaterMarkTemplate[]	List of watermark templates

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?Action=SearchWaterMarkTemplate&<Public parameter>
```

Response example

XML

```
<SearchWaterMarkTemplateResponse>
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
  <TotalCount>1</TotalCount>
  <PageNumber>1</PageNumber>
  <PageSize>10</PageSize>
  <WaterMarkTemplateList list="true">
    <WaterMarkTemplate>
      <Id>88c6ca184c0e47098a5b665e2a126797</Id>
      <Name>example-watermark</Name>
      <Width>10</Width>
      <Height>30</Height>
      <Dx>10</Dx>
      <Dy>5</Dy>
      <ReferPos>TopRight</ReferPos>
      <Type>Image</Type>
      <State>Normal</State>
    </WaterMarkTemplate>
  </WaterMarkTemplateList>
</SearchWaterMarlateResponse>
```

JSON

JSON

```
{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "TotalCount": 100,
  "PageNumber": 1,
  "PageSize": 10,
  "WaterMarkTemplateList": {
    "WaterMarkTemplate": [{
      "Id": "88c6ca184c0e47098a5b665e2a126797",
      "Name": "example-watermark",
      "Width": "10",
      "Height": "30",
      "Dx": "10",
      "Dy": "5",
      "ReferPos": "TopRight",
      "Type": "Image",
      "State": "Normal"
    }]
  }
}
```

10.5. DeleteWaterMarkTemplate

The DeleteWaterMarkTemplate API deletes a watermark template. If the watermark template is being used by “Submitted” tasks, the template cannot be deleted.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>DeleteWaterMarkTemplate</i>
WaterMarkTemplateId	String	Yes	Watermark template ID.

Response parameters

Parameter	Type	Description
WaterMarkTemplateId	String	Watermark template ID

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?WaterMarkTemplateId=88c6ca184c0e47098a5b665e2a126799&Action=DeleteWaterMarkTemplate&<Public parameter>
```

Response example

XML

```
<DeleteWaterMarkTemplateResponse>
  <RequestId>017F1B2D-2B5B-4441-ABBA-E0DC08F5AFEC</RequestId>
  <WaterMarkTemplateId>88c6ca184c0e47098a5b665e2a126799</WaterMarkTemplateId>
</DeleteWaterMarkTemplateResponse>
```

JSON

```
{
  "RequestId": "3E767BAD-9F4C-4FC8-9FAE-E3F4A639066B",
  "WaterMarkTemplateId": "88c6ca184c0e47098a5b665e2a126799"
}
```

11.Snapshot job management

11.1. SubmitSnapshotJob

Submits a snapshot job.

Usage notes

- Only JPG images can be generated by calling this operation.
- Asynchronous mode: This operation may return a response before snapshots are captured. Snapshot jobs are queued in the background and asynchronously processed by ApsaraVideo Media Processing (MPS). If the **Interval** or **Num** parameter is set, the snapshot job is processed in asynchronous mode. For information about frequently asked questions (FAQ) about capturing snapshots, see [FAQ about capturing snapshots](#).
- Notifications: When you submit a snapshot job, the **PipelineId** parameter is required. An asynchronous message is sent only after the notification feature is enabled for the MPS queue.

QPS limit

You can call this operation up to 50 times per second per account. Requests that exceed this limit are dropped and you will experience service interruptions. We recommend that you take note of this limit when you call this operation. For more information, see [QPS limit](#).

Debugging

[OpenAPI Explorer](#) automatically calculates the signature value. For your convenience, we recommend that you call this operation in [OpenAPI Explorer](#). [OpenAPI Explorer](#) dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SubmitSnapshotJob	The operation that you want to perform. Set the value to SubmitSnapshotJob .

Parameter	Type	Required	Example	Description
Input	String	Yes	null	The information about the job input. The value must be a JSON object. You must grant MPS-related permissions to the Object Storage Service (OSS) bucket that stores the OSS object to be used as the job input. To grant the permissions, you can log on to the MPS console, choose Workflows > Media Buckets in the left-side navigation pane, and then click Add Bucket. Then, you must perform URL encoding for the OSS object. Example: <pre>{ "Bucket": "example-bucket", "Location": "example-location", "Object": "example%2Ftest.flv" }</pre> This example indicates the "example-bucket.example-location.aliyuncs.com/example/test.flv" object.  Note The OSS bucket must reside in the same region as your MPS service.

Parameter	Type	Required	Example	Description
SnapshotConfig	String	Yes	null	The snapshot capturing configuration. For more information, see the "AliyunSnapshotConfig" section in the Data types topic.  Note If you set the Interval parameter that is nested under SnapshotConfig, snapshots are captured at the specified intervals. The default value of the Interval parameter is 10, in seconds. If an input video is short but you specify large values for both the Num and Interval parameters, the actual number of snapshots captured may be smaller than the specified number. For example, if you set the Num parameter to 5 and the Interval parameter to 3 for a video of 10 seconds, the number of snapshots captured cannot reach 5.
UserData	String	No	testid-001	The custom data. The custom data can contain letters, digits, and hyphens (-) and be up to 1,024 bytes in size. The custom data cannot start with a special character.

Parameter	Type	Required	Example	Description
PipelineId	String	No	dd3dae411e704030b921e52698e5****	The ID of the MPS queue to which you want to submit the snapshot job. To obtain the ID, you can log on to the MPS console and choose Global Settings > Pipelines in the left-side navigation pane.  Note Make sure that an available Message Service (MNS) topic is bound to the specified MPS queue. Otherwise, the relevant messages may fail to be sent as expected.

Response parameters

Parameter	Type	Example	Description
RequestId	String	19B6D8C5-A5DD-467A-B435-29D393C71E2D	The ID of the request.
SnapshotJob	Object		The information about the snapshot job.
CreationTime	String	2021-05-19T03:11:48Z	The time when the job was created.
SnapshotConfig	Object		The snapshot capturing configuration.
Time	String	5	The start time for capturing snapshots. Unit: milliseconds.
TileOut	Object		The tiling configuration.
Padding	String	0	The distance between two consecutive single images in the tiled image. - Default value: 0. - Unit: pixel.

Parameter	Type	Example	Description
Color	String	black	The background color. • Default value: black. • You can set the Color parameter to a color keyword or random in the request.  Note If you want to set the background color to black, you can specify the color keyword in one of the following three formats: Black, black, and #000000.
CellSelStep	String	3	The stride of a single image.
CellHeight	String	100	The height of a single image. The default value is the height of a captured snapshot.
CellWidth	String	100	The width of a single image. The default value is the width of a captured snapshot.
Margin	String	5	The margin width of the tiled image. • Default value: 0. • Unit: pixel.
Columns	String	10	The number of columns that the tiled image contains. Default value: 10 .
IsKeepCellPic	String	false	Indicates whether the single images are retained. Valid values: • true: The single images are retained. • false: The single images are not retained. • Default value: true.
Lines	String	10	The number of rows that the tiled image contains. Default value: 10 .

Parameter	Type	Example	Description
Interval	String	20	The interval for capturing snapshots. - If this parameter is specified in the request, snapshots are captured at intervals. The value must be greater than 0 in the request. - Unit: seconds. - Default value: 10.
FrameType	String	intra	The snapshot type. Default value: intra. Valid values: normal: normal frames. intra: I-frames (keyframes).  Note If the FrameType parameter is set to intra in the request, only keyframes are captured. If no keyframe is found at a specified time point, the keyframe closest to the specified time point is captured. Keyframes are captured faster than normal frames if the same snapshot rules are applied.
Width	String	8	The width of a captured snapshot.
Height	String	8	The height of a captured snapshot.
OutputFile	Object		The information about the output file of the snapshot job.
RoleArn	String	acs:ram::1:role/testrole	The Alibaba Cloud Resource Name (ARN) of the specified RAM role. Format: acs:ram::\$accountID:role/\$roleName.
Object	String	test.png	The OSS object that is generated as the output file of the snapshot job.
Location	String	example-location	The ID of the region in which the OSS bucket that stores the object is located.

Parameter	Type	Example	Description
Bucket	String	example	The OSS bucket that stores the object.
Num	String	10	The number of snapshots. If the Num parameter is set in the request, snapshots are captured at intervals.
TileOutputFile	Object		The information about the output file of the tiling job.
RoleArn	String	acs:ram::1:role/tes trole	The ARN of the specified RAM role. Format: acs:ram::\$accountID:role/\$roleName.
Object	String	example.png	The OSS object that is generated as the output file of the tiling job.
Location	String	example-location	The ID of the region in which the OSS bucket that stores the object is located.
Bucket	String	example	The OSS bucket that stores the object.
State	String	Snapshoting	The status of the snapshot job. Valid values: • Submitted: The job is submitted. • Snapshoting: The job is being processed. • Success: The job is successful. • Fail: The job fails.
Message	String	The resource operated InputFile is bad	The error message returned when the job fails. This parameter is not returned if the job is successful.
MNSMessageResult	Object		The message sent by MNS to notify the user of the job result.
MessageId	String	799454621135656C7 F815F198A76****	The ID of the message. This parameter is not returned if the job fails.
ErrorMessage	String	The resource operated InputFile is bad	The error message returned when the job fails. This parameter is not returned if the job is successful.

Parameter	Type	Example	Description
ErrorCode	String	InvalidParameter	The error code returned when the job fails. This parameter is not returned if the job is successful.
Input	Object		The information about the job input.
RoleArn	String	acs:ram::1:role/testrole	The ARN of the specified RAM role. Format: acs:ram::\$accountID:role/\$roleName.
Object	String	example.flv	The OSS object that is used as the input file.
Location	String	example-location'	The ID of the region in which the OSS bucket that stores the object is located.
Bucket	String	example	The OSS bucket that stores the object.
Count	String	1	The number of snapshots that are captured.
TileCount	String	5	The number of single images that are contained in the tiled image.
UserData	String	testid-001	The custom data.
Code	String	ResourceContentBad	The error code returned when the job fails. This parameter is not returned if the job is successful.
PipelineId	String	dd3dae411e704030b921e52698e5****	The ID of the MPS queue to which the snapshot job is submitted.
Id	String	f4e3b9ba9f3840c39d6e288056f0****	The ID of the snapshot job.

Examples

Sample request

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=SubmitSnapshotJob
&Input={"Bucket":"example-bucket","Location":"example-location","Object":"example%2Ftest.flv"}
&SnapshotConfig={"OutputFile":{"Bucket":"example-001","Location":"example-location","Object":"{Count}.jpg"},"Time":"5","Num":"10","Interval":"20"}
&UserData=testid-001
&PipelineId=dd3dae411e704030b921e52698e5****
&<Common request parameters>
```

Sample success responses

XML **format**

```
HTTP/1.1 200 OK
Content-Type:application/xml
<SubmitSnapshotJobResponse>
  <RequestId>19B6D8C5-A5DD-467A-B435-29D393C71E2D</RequestId>
  <SnapshotJob>
    <CreationTime>2021-05-19T03:11:48Z</CreationTime>
    <SnapshotConfig>
      <Time>5</Time>
      <TileOut>
        <Padding>0</Padding>
        <Color>black</Color>
        <CellSelStep>3</CellSelStep>
        <CellHeight>100</CellHeight>
        <CellWidth>100</CellWidth>
        <Margin>5</Margin>
        <Columns>10</Columns>
        <IsKeepCellPic>>false</IsKeepCellPic>
        <Lines>10</Lines>
      </TileOut>
      <Interval>20</Interval>
      <FrameType>intra</FrameType>
      <Width>8</Width>
      <Height>8</Height>
      <OutputFile>
        <RoleArn>acs:ram::1:role/testrole</RoleArn>
        <Object>test.png</Object>
        <Location>example-location</Location>
        <Bucket>example</Bucket>
      </OutputFile>
      <Num>10</Num>
      <TileOutputFile>
        <RoleArn>acs:ram::1:role/testrole</RoleArn>
        <Object>example.png</Object>
        <Location>example-location</Location>
        <Bucket>example</Bucket>
      </TileOutputFile>
    </SnapshotConfig>
    <State>Snapshotting</State>
    <Message>The resource operated InputFile is bad</Message>
    <MNSMessageResult>
      <MessageId>799454621135656C7F815F198A76****</MessageId>
```



```

        <ErrorMessage>The resource operated InputFile is bad</ErrorMessage>
        <ErrorCode>InvalidParameter</ErrorCode>
    </MNSMessageResult>
    <Input>
        <RoleArn>acs:ram::1:role/testrole</RoleArn>
        <Object>example.flv</Object>
        <Location>example-location'</Location>
        <Bucket>example</Bucket>
    </Input>
    <Count>1</Count>
    <TileCount>5</TileCount>
    <UserData>testid-001</UserData>
    <Code>ResourceContentBad</Code>
    <PipelineId>dd3dae411e704030b921e52698e5****</PipelineId>
    <Id>f4e3b9ba9f3840c39d6e288056f0****</Id>
</SnapshotJob>
</SubmitSnapshotJobResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "19B6D8C5-A5DD-467A-B435-29D393C71E2D",
  "SnapshotJob" : {
    "CreationTime" : "2021-05-19T03:11:48Z",
    "SnapshotConfig" : {
      "Time" : "5",
      "TileOut" : {
        "Padding" : "0",
        "Color" : "black",
        "CellSelStep" : "3",
        "CellHeight" : "100",
        "CellWidth" : "100",
        "Margin" : "5",
        "Columns" : "10",
        "IsKeepCellPic" : "false",
        "Lines" : "10"
      },
      "Interval" : "20",
      "FrameType" : "intra",
      "Width" : "8",
      "Height" : "8",
      "OutputFile" : {
        "RoleArn" : "acs:ram::1:role/testrole",
        "Object" : "test.png",
        "Location" : "example-location",
        "Bucket" : "example"
      },
      "Num" : "10",
      "TileOutputFile" : {
        "RoleArn" : "acs:ram::1:role/testrole",
        "Object" : "example.png",
        "Location" : "example-location",
        "Bucket" : "example"
      }
    }
  }
}

```

```
        "Location" : "example-location",
        "Bucket" : "example"
    },
    "State" : "Snapshotting",
    "Message" : "The resource operated InputFile is bad",
    "MNSMessageResult" : {
        "MessageId" : "799454621135656C7F815F198A76****",
        "ErrorMessage" : "The resource operated InputFile is bad",
        "ErrorCode" : "InvalidParameter"
    },
    "Input" : {
        "RoleArn" : "acs:ram::1:role/testrole",
        "Object" : "example.flv",
        "Location" : "example-location",
        "Bucket" : "example"
    },
    "Count" : "1",
    "TileCount" : "5",
    "UserData" : "testid-001",
    "Code" : "ResourceContentBad",
    "PipelineId" : "dd3dae411e704030b921e52698e5****",
    "Id" : "f4e3b9ba9f3840c39d6e288056f0****"
}
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

11.2. QuerySnapshotJobList

Queries the information about snapshot jobs.

Usage notes

You can call this operation to query up to 10 snapshot jobs at a time.

Limits on QPS

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limit](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	QuerySnapshotJobList	The operation that you want to perform. Set the value to QuerySnapshotJobList .
SnapshotJobIds	String	No	72dfa5e679ab4be9a3ed9974c736***	The IDs of the snapshot jobs that you want to query. To obtain the IDs, you can log on to the ApsaraVideo Media Processing (MPS) console , click Tasks in the left-side navigation pane, and then view the IDs on the Snapshot tab. You can query up to 10 snapshot jobs at a time. Separate the IDs with commas (,).
NextPageToken	String	No	cc6cbef8e8d5481ca536f5d2a466**	The token that is used to retrieve the next page of the query results. The value is a 32-bit UUID. If the returned query results cannot be displayed within one page, this parameter is returned. The value of this parameter is updated for each query.
MaximumPageSize	Long	No	30	The maximum number of entries to return on each page. • Default value: 30. • Valid values: [1,300].
State	String	No	Snapshotting	The status of the snapshot jobs that you want to query. • Submitted: The job was submitted. • Snapshotting: The job is being processed. • Success: The job was successfully processed. • Fail: The job failed.

Parameter	Type	Required	Example	Description
StartOfJobCreatedTimeRange	String	No	2014-01-10T12:00:00Z	The beginning of the time range within which the creation time of snapshot jobs to be queried is. - Specify the time in the ISO 8601 standard in the - YYYY-MM-DDThh:mm:ssZ format. The time must be in UTC.
EndOfJobCreatedTimeRange	String	No	2014-01-12T12:00:00Z	The end of the time range within which the creation time of snapshot jobs to be queried is. - Specify the time in the ISO 8601 standard in the - YYYY-MM-DDThh:mm:ssZ format. The time must be in UTC.
PipelineId	String	No	b11c171cced04565b1f38f1ecc39***	The ID of the MPS queue to which the snapshot jobs that you want to query are submitted. To obtain the ID, you can log on to the MPS console and choose Global Settings > Pipelines in the left-side navigation pane.

Response parameters

Parameter	Type	Example	Description
SnapshotJobList	Array of SnapshotJob		The information about the snapshot jobs.
SnapshotJob			
CreationTime	String	2021-06-30T12:34:29Z	The time when the job was created.
SnapshotConfig	Object		The snapshot configuration.
Time	String	4	The start time for taking snapshots. Unit: milliseconds.

Parameter	Type	Example	Description
TileOut	Object		The tiling configuration.
Padding	String	0	The distance between images. - Default value: 0. - Unit: pixel.
Color	String	black	The background color. - Default value: black. - You can set the Color parameter to a color keyword or random in the request.  Note If you want to set the background color to black, you can specify the color keyword in one of the following three formats: Black, black, and #000000.
CellSelStep	String	3	The stride of a single image.
CellHeight	String	8	The height of a single image. The default value is the height of the output snapshot.
CellWidth	String	8	The width of a single image. The default value is the width of the output snapshot.
Margin	String	0	The margin width of the tiled image. - Default value: 0. - Unit: pixel.
Columns	String	10	The number of columns that the tiled image can contain. Default value: 10 .
IsKeepCellPic	String	false	Indicates whether the single images are retained. Default value: true .
Lines	String	10	The number of rows that the tiled image can contain. Default value: 10 .

Parameter	Type	Example	Description
Interval	String	10	The interval for taking snapshots. • If this Interval parameter is specified in the request, snapshots are taken at intervals. The value must be greater than 0. • Unit: seconds. • Default value: 10.
FrameType	String	intra	The type of the snapshot. Valid values: • normal: normal frames. • intra: I-frames. • Default value: intra.
Width	String	8	The width of the output snapshot.
Height	String	8	The height of the output snapshot.
OutputFile	Object		The Object Storage Service (OSS) output file of the snapshot job.
RoleArn	String	acs:ram::1:role/tes trole	The Alibaba Cloud Resource Name (ARN) of the specified RAM role. Format: acs:ram::\$accountID:role/\$roleName.
Object	String	example.png	The OSS object that is generated as the output file of the snapshot job.
Location	String	example-location	The ID of the region in which the output OSS bucket is located.
Bucket	String	example	The OSS bucket that stores the output file.
Num	String	10	The number of snapshots to take. If the Num parameter is set in the request, snapshots are taken at intervals.
TileOutputFile	Object		The OSS output file of the tiling job.

Parameter	Type	Example	Description
RoleArn	String	acs:ram::1:role/testrole	The ARN of the specified RAM role. Format: acs:ram::\$accountID:role/\$roleName.
Object	String	example.png	The OSS object that is generated as the output file of the tiling job.
Location	String	example-location	The ID of the region in which the output OSS bucket is located.
Bucket	String	example	The OSS bucket that stores the output file.
State	String	Snapshotting	The status of the snapshot job. • Submitted: The job was submitted. • Snapshotting: The job is being processed. • Success: The job was successfully processed. • Fail: The job failed.
Message	String	The resource operated InputFile is bad	The error message returned when the job fails. This parameter is not returned if the job is successfully processed.
MNSMessageResult	Object		The message sent by MNS to notify the user of the job result.
MessageId	String	799454621135656C7F815F198A76****	The ID of the message. This parameter is not returned if the job fails.
ErrorMessage	String	The resource operated InputFile is bad	The error message returned when the job fails. This parameter is not returned if the job is successfully processed.
ErrorCode	String	InvalidParameter	The error code returned when the job fails. This parameter is not returned if the job is successfully processed.
Input	Object		The information about the job input.

Parameter	Type	Example	Description
RoleArn	String	acs:ram::1:role/tes trole	The ARN of the specified RAM role. Format: acs:ram::\$accountID:role/\$roleName.
Object	String	example.flv	The OSS object that is used as the input file.
Location	String	example-location	The ID of the region in which the input OSS bucket is located.
Bucket	String	example	The OSS bucket that stores the input file.
Count	String	1	The number of snapshots that were taken.
TileCount	String	7	The number of snapshots that are contained in the tiled image.
UserData	String	testid-001	The custom data.
Code	String	InvalidParameter	The error code returned when the job fails. This parameter is not returned if the job is successfully processed.
PipelineId	String	b11c171ccd04565b 1f38f1ecc39****	The ID of the MPS queue to which the snapshot job was submitted.
Id	String	cc6cbef8e8d5481ca 536f5d2a466****	The ID of the snapshot job.
RequestId	String	34BCAB31-2833- 43A7-9FBD- B34302AB23EQ	The ID of the request.
NotExistSnapshotJobIds	Array of String	c6d973c33d1c4b21b c39907d3b29****	The snapshot job IDs that do not exist. This parameter is not returned if all specified snapshot jobs are found.
NextPageToken	String	b11c171ccd04565b 1f38f1ecc39****	The token that is used to retrieve the next page of the query results. The value is a 32-bit UUID. If the returned query results cannot be displayed within one page, this parameter is returned. The value of this parameter is updated for each query.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=QuerySnapshotJobList
&SnapshotJobIds=72dfa5e679ab4be9a3ed9974c736****
&NextPageToken=cc6cbef8e8d5481ca536f5d2a466****
&MaximumPageSize=30
&State=Snapshotting
&StartOfJobCreatedTimeRange=2014-01-10T12:00:00Z
&EndOfJobCreatedTimeRange=2014-01-12T12:00:00Z
&PipelineId=b11c171ccd04565b1f38f1ecc39****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type: application/xml
<QuerySnapshotJobListResponse>
  <SnapshotJobList>
    <CreationTime>2021-06-30T12:34:29Z</CreationTime>
    <SnapshotConfig>
      <Time>4</Time>
      <TileOut>
        <Padding>0</Padding>
        <Color>black</Color>
        <CellSelStep>3</CellSelStep>
        <CellHeight>8</CellHeight>
        <CellWidth>8</CellWidth>
        <Margin>0</Margin>
        <Columns>10</Columns>
        <IsKeepCellPic>false</IsKeepCellPic>
        <Lines>10</Lines>
      </TileOut>
      <Interval>10</Interval>
      <FrameType>intra</FrameType>
      <Width>8</Width>
      <Height>8</Height>
      <OutputFile>
        <RoleArn>acs:ram::1:role/testrole</RoleArn>
        <Object>example.png</Object>
        <Location>example-location</Location>
        <Bucket>example</Bucket>
      </OutputFile>
      <Num>10</Num>
      <TileOutputFile>
        <RoleArn>acs:ram::1:role/testrole</RoleArn>
        <Object>example.png</Object>
        <Location>example-location</Location>
        <Bucket>example</Bucket>
      </TileOutputFile>
    </SnapshotConfig>
  </SnapshotJobList>
</QuerySnapshotJobListResponse>
```

```

<State>Snapshoting</State>
<MNSMessageResult>
  <MessageId>799454621135656C7F815F198A76****</MessageId>
</MNSMessageResult>
<Input>
  <RoleArn>acs:ram::1:role/testrole</RoleArn>
  <Object>example.flv</Object>
  <Location>example-location</Location>
  <Bucket>example</Bucket>
</Input>
<Count>1</Count>
<TileCount>7</TileCount>
<UserData>testid-001</UserData>
<PipelineId>b11c171cced04565b1f38f1ecc39****</PipelineId>
<Id>cc6cbef8e8d5481ca536f5d2a466****</Id>
</SnapshotJobList>
<RequestId>34BCAB31-2833-43A7-9FBD-B34302AB23EQ</RequestId>
<NonExistSnapshotJobIds>c6d973c33d1c4b21bc39907d3b29****</NonExistSnapshotJobIds>
<NextPageToken>b11c171cced04565b1f38f1ecc39****</NextPageToken>
</QuerySnapshotJobListResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "SnapshotJobList": [
    {
      "CreationTime": "2021-06-30T12:34:29Z",
      "SnapshotConfig": {
        "Time": "4",
        "TileOut": {
          "Padding": "0",
          "Color": "black",
          "CellSelStep": "3",
          "CellHeight": "8",
          "CellWidth": "8",
          "Margin": "0",
          "Columns": "10",
          "IsKeepCellPic": "false",
          "Lines": "10"
        },
        "Interval": "10",
        "FrameType": "intra",
        "Width": "8",
        "Height": "8",
        "OutputFile": {
          "RoleArn": "acs:ram::1:role/testrole",
          "Object": "example.png",
          "Location": "example-location",
          "Bucket": "example"
        },
        "Num": "10",
        "TileOutputFile": {

```

```
        "RoleArn": "acs:ram::1:role/testrole",
        "Object": "example.png",
        "Location": "example-location",
        "Bucket": "example"
    },
    "State": "Snapshotting",
    "MNSMessageResult": {
        "MessageId": "799454621135656C7F815F198A76****",
    },
    "Input": {
        "RoleArn": "acs:ram::1:role/testrole",
        "Object": "example.flv",
        "Location": "example-location",
        "Bucket": "example"
    },
    "Count": "1",
    "TileCount": "7",
    "UserData": "testid-001",
    "PipelineId": "b11c171cced04565b1f38flecc39****",
    "Id": "cc6cbef8e8d5481ca536f5d2a466****"
},
"RequestId": "34BCAB31-2833-43A7-9FBD-B34302AB23EQ",
"NonExistSnapshotJobIds": [
    "c6d973c33d1c4b21bc39907d3b29****"
],
"NextPageToken": "b11c171cced04565b1f38flecc39****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

12. Media workflow management

12.1. AddMediaWorkflow

The AddMediaWorkflow API adds a media workflow and defines the topology of the media workflow, and Activity and dependencies.

 **Note** For more information, see [Activity](#).

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>AddMediaWorkflow</i>
Name	String	Yes	Media workflow name, • and cannot be a null string. • The name must be unique, • which consists of up to 64 bytes. • It must be UTF-8 encoded.
Topology	String	Yes	Topology of the media workflow. JSON object. The topology includes the activity list and activity dependencies, as shown in the following topology example.
TriggerMode	String	No	Trigger mode. Range: OssAutoTrigger NotInAuto

Topology example

```
{
  "Activities": {
    "Act-Transcode-M3U8": {
      "Parameters": {
        "Outputs": [
          {
            "OutputObject": "transcode%2F%7BObjectPrefix%7D%7BFileName%7D",
            "TemplateId": "957d1719ee85ed6527b90cf62726cbef"
          }
        ],
        "OutputBucket": "panda-vod-hls",
        "OutputLocation": "oss-cn-hangzhou"
      },
      "Type": "Transcode"
    },
    "Act-Start": {
      "Name": "Act-Start",
      "Parameters": {
        "PipelineId": "130266f58161436a80bf07cb12c8009a",
        "InputFile": {
          "Bucket": "panda-vod",
          "Location": "oss-cn-hangzhou"
        }
      },
      "Type": "Start"
    },
    "Act-Report": {
      "Name": "Act-Report",
      "Parameters": {
      },
      "Type": "Report"
    }
  },
  "Dependencies": {
    "Act-Transcode-M3U8": [
      "Act-Report"
    ],
    "Act-Start": [
      "Act-Transcode-M3U8"
    ],
    "Act-Report": [
    ]
  }
}
```

Response parameters

Parameter	Type	Description
MediaWorkflow	MediaWorkflow	Media workflow.

Examples

Request example

```
https://mts.cn-hangzhou.aliyuncs.com/?Name=mediaworkflow-test&Action=AddMediaWorkflow&Topology=%7B%22Activities%22%3A%7B%22Act-Start%22%3A%7B%22Parameters%22%3A%7B%22PipelineId%22%3A%22130266f58161436a80bf07cb12c8009a%22%2C%22InputFile%22%3A%22%7B%5C%22Bucket%5C%22%3A+%5C%22panda-vod%5C%22%2C%5C%22Location%5C%22%3A+%5C%22oss-cn-hangzhou%5C%22%7D%22%7D%2C%22Type%22%3A%22Start%22%7D%2C%22Act-Report%22%3A%7B%22Parameters%22%3A%7B%7D%2C%22Type%22%3A%22Report%22%7D%2C%22Act-Transcode-M3U8%22%3A%7B%22Parameters%22%3A%7B%22Outputs%22%3A%22%5B%7B%5C%22OutputObject%5C%22%3A%5C%22transcode%252F%257BObjectPrefix%257D%257BFileName%257D%5C%22%2C%5C%22TemplateId%5C%22%3A+%5C%22957d1719ee85ed6527b90cf62726cbef%5C%22%7D%5D%22%2C%22OutputBucket%22%3A%22panda-vod-hls%22%2C%22OutputLocation%22%3A%22oss-cn-hangzhou%22%7D%2C%22Type%22%3A%22Transcode%22%7D%7D%2C%22Dependencies%22%3A%7B%22Act-Start%22%3A%5B%22Act-Transcode-M3U8%22%5D%2C%22Act-Report%22%3A%5B%5D%2C%22Act-Transcode-M3U8%22%3A%5B%22Act-Report%22%5D%7D%7D%26lt;Public parameter>
```

Response example

XML

```
<AddMediaWorkflowResponse>
  <RequestId>F1D21261-ADB9-406A-BF6F-491382139D59</RequestId>
  <MediaWorkflow>
    <CreationTime>2016-04-01T05:29:37Z</CreationTime>
    <Name>mediaworkflow-test</Name>
    <State>Inactive</State>
    <Topology>{"Activities":{"Act-Start":{"Parameters":{"PipelineId":"130266f58161436a80bf07cb12c8009a","InputFile":{"Bucket": "panda-vod","Location": "oss-cn-hangzhou"},"Type":"Start"},"Act-Report":{"Parameters":{},"Type":"Report"},"Act-Transcode-M3U8":{"Parameters":{"Outputs":[{"OutputObject":"transcode%2F%7BObjectPrefix%7D%7BFileName%7D","TemplateId": "957d1719ee85ed6527b90cf62726cbef"}],"OutputBucket":"panda-vod-hls","OutputLocation":"oss-cn-hangzhou"},"Type":"Transcode"},"Dependencies":{"Act-Start":["Act-Transcode-M3U8"],"Act-Report":[],"Act-Transcode-M3U8":["Act-Report"]}}}</Topology>
    <MediaWorkflowId>e00732b977da427d9177a4dee646b1aa</MediaWorkflowId>
  </MediaWorkflow>
</AddMediaWorkflowResponse>
```

JSON

```
{
  "RequestId": "F1D21261-ADB9-406A-BF6F-491382139D59",
  "MediaWorkflow": {
    "CreationTime": "2016-04-01T05:29:37Z",
    "Name": "mediaworkflow-test",
    "State": "Inactive",
    "Topology": "{\"Activities\":{\"Act-Start\":{\"Parameters\":{\"PipelineId\":\"130266f58161436a80bf07cb12c8009a\",\"InputFile\":{\"Bucket\":\"panda-vod\",\"Location\":\"oss-cn-hangzhou\"}},\"Type\":\"Start\"},\"Act-Report\":{\"Parameters\":{\"Type\":\"Report\"},\"Act-Transcode-M3U8\":{\"Parameters\":{\"Outputs\":{\"OutputObject\":\"transcode%2F%7BObjectPrefix%7D%7BFileName%7D\",\"TemplateId\":\"957d1719ee85ed6527b90cf62726cbef\"}},\"OutputBucket\":\"panda-vod-hls\",\"OutputLocation\":\"oss-cn-hangzhou\"},\"Type\":\"Transcode\"}},\"Dependencies\":{\"Act-Start\":[\"Act-Transcode-M3U8\"],\"Act-Report\":[],\"Act-Transcode-M3U8\":[\"Act-Report\"]}}",
    "MediaWorkflowId": "93ab850b4f6f44eab54b6e91d24d81d4"
  }
}
```

12.2. ActivateMediaWorkflow

The ActivateMediaWorkflow API activates a media workflow. If a media workflow is activated, it cannot be modified.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: ActivateMediaWorkflow
MediaWorkflowId	String	Yes	Media workflow ID

Response parameters

None

Examples

Request example

```
https://mts.cn-hangzhou.aliyuncs.com/?MediaWorkflowId=93ab850b4f6f44eab54b6e91d24d81d4&<public parameter>
```

Response example

XML

```
<ActivateMediaWorkflowResponse>
  <RequestId>A1326BD4-30B1-4CB6-B116-3330B877B0D4</RequestId>
</ActivateMediaWorkflowResponse>
```

JSON

```
{
  "RequestId": "A1326BD4-30B1-4CB6-B116-3330B877B0D4"
}
```

12.3. DeactivateMediaWorkflow

The DeactivateMediaWorkflow API disables a media workflow. If a media workflow is disabled, it can be edited again.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>DeactivateMediaWorkflow</i>
MediaWorkflowId	String	Yes	Media workflow ID.

Response parameters

None

Examples

Request example

```
https://mts.cn-hangzhou.aliyuncs.com/?MediaWorkflowId=93ab850b4f6f44eab54b6e91d24d81d4&<public parameter>
```

Response example

XML

```
<DeactivateMediaWorkflowResponse>
  <RequestId>A1326BD4-30B1-4CB6-B116-3330B877B0D4</RequestId>
</DeactivateMediaWorkflowResponse>
```

JSON

```
{
  "RequestId": "A1326BD4-30B1-4CB6-B116-3330B877B0D4"
}
```

12.4. DeleteMediaWorkflow

The DeleteMediaWorkflow API deletes a media workflow. Running workflow instances are not affected.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>DeleteMediaWorkflow</i>
MediaWorkflowId	String	Yes	Media workflow ID.

Response parameters

None

Examples

Request example

```
https://mts.cn-hangzhou.aliyuncs.com/?MediaWorkflowId=93ab850b4f6f44eab54b6e91d24d81d4&<public parameter>
```

Response example

XML

```
<DeleteMediaWorkflowResponse>
  <RequestId>A1326BD4-30B1-4CB6-B116-3330B877B0D4</RequestId>
</DeleteMediaWorkflowResponse>
```

JSON

```
{
  "RequestId": "A1326BD4-30B1-4CB6-B116-3330B877B0D4"
}
```

12.5. UpdateMediaWorkflow

The UpdateMediaWorkflow API updates the topology of a media workflow.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>UpdateMediaWorkflow</i>
MediaWorkflowId	String	Yes	Media workflow ID.

Parameters	Type	Required or not	Description
Topology	String	Yes	Media workflow topology. JSON object. The topology includes the activity list and activity dependencies, as shown in the following topology example.

Topology example

```
{
  "Activities": {
    "Act-Transcode-M3U8": {
      "Parameters": {
        "Outputs": "[{\"OutputObject\":\"transcode%2F%7BObjectPrefix%7D%7BFileName%7D\", \"TemplateId\": \"957d1719ee85ed6527b90cf62726cbef\"}]",
        "OutputBucket": "panda-vod-hls",
        "OutputLocation": "oss-cn-hangzhou"
      },
      "Type": "Transcode"
    },
    "Act-Start": {
      "Name": "Act-Start",
      "Parameters": {
        "PipelineId": "130266f58161436a80bf07cb12c8009a",
        "InputFile": "{\"Bucket\": \"panda-vod\", \"Location\": \"oss-cn-hangzhou\"}"
      },
      "Type": "Start"
    },
    "Act-Report": {
      "Name": "Act-Report",
      "Parameters": {},
      "Type": "Report"
    }
  },
  "Dependencies": {
    "Act-Transcode-M3U8": [
      "Act-Report"
    ],
    "Act-Start": [
      "Act-Transcode-M3U8"
    ],
    "Act-Report": []
  }
}
```

Response parameters

Parameter	Type	Description
MediaWorkflow	MediaWorkflow	Media workflow

Examples

Request example

```
https://mts.cn-hangzhou.aliyuncs.com/?Action=UpdateMediaWorkflow&Topology=%7B%22Activities%22%3A%7B%22Act-Start%22%3A%7B%22Parameters%22%3A%7B%22PipelineId%22%3A%22130266f58161436a80bf07cb12c8009a%22%2C%22InputFile%22%3A%22%7B%5C%22Bucket%5C%22%3A+%5C%22panda-vod%5C%22%2C%5C%22Location%5C%22%3A+%5C%22oss-cn-hangzhou%5C%22%7D%22%7D%2C%22Type%22%3A%22Start%22%7D%2C%22Act-Report%22%3A%7B%22Parameters%22%3A%7B%7D%2C%22Type%22%3A%22Report%22%7D%2C%22Act-Transcode-M3U8%22%3A%7B%22Parameters%22%3A%7B%22Outputs%22%3A%22%5B%7B%5C%22OutputObject%5C%22%3A%5C%22transcode%252F%257BObjectPrefix%257D%257BFileName%257D%5C%22%2C%5C%22TemplateId%5C%22%3A+%5C%22957d1719ee85ed6527b90cf62726cbef%5C%22%7D%5D%22%2C%22OutputBucket%22%3A%22panda-vod-hls%22%2C%22OutputLocation%22%3A%22oss-cn-hangzhou%22%7D%2C%22Type%22%3A%22Transcode%22%7D%7D%2C%22Dependencies%22%3A%7B%22Act-Start%22%3A%5B%22Act-Transcode-M3U8%22%5D%2C%22Act-Report%22%3A%5B%5D%2C%22Act-Transcode-M3U8%22%3A%5B%22Act-Report%22%5D%7D%7D&<public parameter>
```

Response example

XML

```
<UpdateMediaWorkflowResponse>
  <RequestId>F95B44E5-ECE1-4356-AD1C-2CF2D2B5043C</RequestId>
  <MediaWorkflow>
    <CreationTime>2016-04-01T05:29:38Z</CreationTime>
    <Name>mediaworkflow-test</Name>
    <State>Inactive</State>
    <Topology>{"Activities":{"Act-Start":{"Parameters":{"PipelineId":"130266f58161436a80bf07cb12c8009a","InputFile":{"Bucket":"panda-vod","Location":"oss-cn-hangzhou"},"Type":"Start"},"Act-Report":{"Parameters":{},"Type":"Report"},"Act-Transcode-M3U8":{"Parameters":{"Outputs":[{"OutputObject":"transcode%2F%7BObjectPrefix%7D%7BFileName%7D","TemplateId":"957d1719ee85ed6527b90cf62726cbef"}],"OutputBucket":"panda-vod-hls","OutputLocation":"oss-cn-hangzhou"},"Type":"Transcode"},"Dependencies":{"Act-Start":{"Act-Transcode-M3U8"},"Act-Report":[],"Act-Transcode-M3U8":{"Act-Report"}}}</Topology>
    <MediaWorkflowId>93ab850b4f6f44eab54b6e91d24d81d4</MediaWorkflowId>
  </MediaWorkflow>
</UpdateMediaWorkflowResponse>
```

JSON

```
{
  "RequestId": "A06BF02F-1BA7-4866-85FE-B17D318DBD47",
  "MediaWorkflow": {
    "CreationTime": "2016-04-01T05:29:38Z",
    "Name": "mediaworkflow-test",
    "State": "Inactive",
    "Topology": "{\\\"Activities\\\":{\\\"Act-Start\\\":{\\\"Parameters\\\":{\\\"PipelineId\\\":\\\"130266f58161436a80bf07cb12c8009a\\\",\\\"InputFile\\\":\\\"{\\\"\\\"Bucket\\\"\\\": \\\"\\\"panda-vod\\\"\\\",\\\"Location\\\"\\\": \\\"\\\"oss-cn-hangzhou\\\"\\\"}\\\"}\\\",\\\"Type\\\":\\\"Start\\\"}\\\",\\\"Act-Report\\\":{\\\"Parameters\\\":{\\\"\\\",\\\"Type\\\":\\\"Report\\\"}\\\",\\\"Act-Transcode-M3U8\\\":{\\\"Parameters\\\":{\\\"Outputs\\\":\\\"[{\\\"\\\"OutputObject\\\"\\\":\\\"\\\"transcode%2F%7BObjectPrefix%7D%7BFileName%7D\\\"\\\",\\\"TemplateId\\\"\\\": \\\"\\\"957d1719ee85ed6527b90cf62726cbef\\\"\\\"}]\\\",\\\"OutputBucket\\\":\\\"panda-vod-hls\\\",\\\"OutputLocation\\\":\\\"oss-cn-hangzhou\\\"}\\\",\\\"Type\\\":\\\"Transcode\\\"}\\\",\\\"Dependencies\\\":{\\\"Act-Start\\\":[\\\"Act-Transcode-M3U8\\\"]\\\",\\\"Act-Report\\\":[],\\\"Act-Transcode-M3U8\\\":[\\\"Act-Report\\\"]}}\\\",\\\"MediaWorkflowId\\\": \"93ab850b4f6f44eab54b6e91d24d81d4\""}
  }
}
```

12.6. QueryMediaWorkflowList

The QueryMediaWorkflowList API queries registered media workflows.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>QueryMediaWorkflowList</i>
MediaWorkflowIds	String	Yes	List of media workflow IDs, separated by commas (,). A maximum of 10 IDs can be entered.

Response parameters

Parameter	Type	Description
MediaWorkflowList	MediaWorkflow []	Media workflow list.
NotExistMediaWorkflowIdList	String[]	List of non-existing media workflow IDs.

Examples

Request example

```
https://mts.cn-hangzhou.aliyuncs.com/?MediaWorkflowIds=93ab850b4f6f44eab54b6e91d24d81d4&<public parameter>
```

Response example

XML

```
<QueryMediaWorkflowListResponse>
  <MediaWorkflowList>
    <MediaWorkflow>
      <CreationTime>2016-04-01T05:29:38Z</CreationTime>
      <Name>mediaworkflow-test</Name>
      <State>Active</State>
      <Topology>{"Activities":{"Act-Start":{"Parameters":{"PipelineId":"130266f58161436a80bf07cb12c8009a","InputFile":{"Bucket": "panda-vod","Location": "oss-cn-hangzhou"}}, "Type": "Start"}, "Act-Report":{"Parameters": {}, "Type": "Report"}, "Act-Transcode-M3U8":{"Parameters":{"Outputs":[{"Object": "transcode/{ObjectPrefix}{FileName}", "TemplateId": "957d1719ee85ed6527b90cf62726cbef"}]}, "OutputBucket": "panda-vod-hls", "OutputLocation": "oss-cn-hangzhou"}, "Type": "Transcode"}}, "Dependencies":{"Act-Start": ["Act-Transcode-M3U8"], "Act-Report": [], "Act-Transcode-M3U8": ["Act-Report"]}}</Topology>
      <MediaWorkflowId>93ab850b4f6f44eab54b6e91d24d81d4</MediaWorkflowId>
    </MediaWorkflow>
  </MediaWorkflowList>
  <RequestId>FEC5AAFA-A8E5-43A4-9FDB-E62E708AF7E4</RequestId>
</QueryMediaWorkflowListResponse>
```

JSON

```
{
  "MediaWorkflowList": {
    "MediaWorkflow": [
      {
        "CreationTime": "2016-04-01T05:29:38Z",
        "Name": "mediaworkflow-test",
        "State": "Active",
        "Topology": "{\"Activities\":{\"Act-Start\":{\"Parameters\":{\"PipelineId\":\"130266f58161436a80bf07cb12c8009a\",\"InputFile\":{\"Bucket\":\"panda-vod\",\"Location\":\"oss-cn-hangzhou\"}}, \"Type\":\"Start\"}, \"Act-Report\":{\"Parameters\":{}, \"Type\":\"Report\"}, \"Act-Transcode-M3U8\":{\"Parameters\":{\"Outputs\":[{\"Object\":\"transcode/{ObjectPrefix}{FileName}\", \"TemplateId\":\"957d1719ee85ed6527b90cf62726cbef\"}]}, \"OutputBucket\":\"panda-vod-hls\", \"OutputLocation\":\"oss-cn-hangzhou\"}, \"Type\":\"Transcode\"}}, \"Dependencies\":{\"Act-Start\": [\"Act-Transcode-M3U8\"], \"Act-Report\": [], \"Act-Transcode-M3U8\": [\"Act-Report\"]}}",
        "MediaWorkflowId": "93ab850b4f6f44eab54b6e91d24d81d4"
      }
    ]
  },
  "RequestId": "16CD0CDD-457E-420D-9755-8385075A618B"
}
```

12.7. SearchMediaWorkflow

The SearchMediaWorkflow API searches for media workflows.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>SearchMediaWorkflow</i>
StateList	String	No	Media workflow status list, - separated by commas (,). - The states include inactive, active, deleted. Default value: "Inactive, Active, Deleted"
PageSize	Long	No	Page size. - Maximum value: 100. - Default value: 10.
PageNumber	Long	No	The page number. Default value: 1.

Response parameters

Parameter	Type	Description
MediaWorkflowList	MediaWorkflow[]	List of media workflows.
TotalCount	Long	Total number.
PageSize	Long	The page size.
PageNumber	Long	Page number.

Examples

Request example

```
https://mts.cn-hangzhou.aliyuncs.com/?PageSize=1&<public parameter>
```

Response example

XML

```
<SearchMediaWorkflowResponse>
  <PageNumber>1</PageNumber>
  <MediaWorkflowList>
    <MediaWorkflow>
      <CreationTime>2016-04-01T05:38:41Z</CreationTime>
      <Name>mediaworkflow-test1</Name>
      <State>Inactive</State>
      <Topology>{"Activities":{"Act-Start":{"Parameters":{"PipelineId":"130266f58161436a80bf07cb12c8009a","InputFile":{"Bucket":"panda-vod","Location":"oss-cn-hangzhou"},"Type":"Start"},"Act-Report":{"Parameters":{"Type":"Report"},"Act-Transcode-M3U8":{"Parameters":{"Outputs":[{"Object":"transcode/{ObjectPrefix}{FileName}","TemplateId":"957d1719ee85ed6527b90cf62726cbef"}],"OutputBucket":"panda-vod-hls","OutputLocation":"oss-cn-hangzhou"},"Type":"Transcode"},"Dependencies":{"Act-Start":["Act-Transcode-M3U8"],"Act-Report":[],"Act-Transcode-M3U8":["Act-Report"]}}}</Topology>
      <MediaWorkflowId>e00732b977da427d9177a4dee646blaa</MediaWorkflowId>
    </MediaWorkflow>
  </MediaWorkflowList>
  <TotalCount>339</TotalCount>
  <PageSize>1</PageSize>
  <RequestId>691EA73C-3937-4604-8031-580E5931783B</RequestId>
</SearchMediaWorkflowResponse>
```

JSON

```
{
  "PageNumber": 1,
  "MediaWorkflowList": {
    "MediaWorkflow": [
      {
        "CreationTime": "2016-04-01T05:38:41Z",
        "Name": "mediaworkflow-test1",
        "State": "Inactive",
        "Topology": "{\"Activities\":{\"Act-Start\":{\"Parameters\":{\"PipelineId\":\"130266f58161436a80bf07cb12c8009a\",\"InputFile\":{\"Bucket\":\"panda-vod\",\"Location\":\"oss-cn-hangzhou\"}},\"Type\":\"Start\"},\"Act-Report\":{\"Parameters\":{\"Type\":\"Report\"},\"Act-Transcode-M3U8\":{\"Parameters\":{\"Outputs\":[{\"Object\":\"transcode/{ObjectPrefix}{FileName}\",\"TemplateId\":\"957d1719ee85ed6527b90cf62726cbef\"}]},\"OutputBucket\":\"panda-vod-hls\",\"OutputLocation\":\"oss-cn-hangzhou\"},\"Type\":\"Transcode\"}},\"Dependencies\":{\"Act-Start\":[\"Act-Transcode-M3U8\"],\"Act-Report\":[],\"Act-Transcode-M3U8\":[\"Act-Report\"]}}\",
        "MediaWorkflowId": "e00732b977da427d9177a4dee646blaa"
      }
    ]
  },
  "TotalCount": 339,
  "PageSize": 1,
  "RequestId": "9AB3E295-F459-44C6-A0D4-6370700"
}
```

Related articles

12.8.

UpdateMediaWorkflowTriggerMode

Updates the trigger mode of a media workflow.

Usage notes

You can call this operation only to modify the trigger mode of a workflow. To modify other information, call the [UpdateMediaWorkflow](#) operation.

QPS limit

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateMediaWorkflowTriggerMode	The operation that you want to perform. Set the value to UpdateMediaWorkflowTriggerMode .
MediaWorkflowId	String	Yes	e00732b977da427d9177a4dee646****	The ID of the media workflow to be updated. To obtain the workflow ID, you can log on to the ApsaraVideo Media Processing (MPS) console and choose Workflows > Workflow Settings .
TriggerMode	String	Yes	NotInAuto	The trigger mode of the media workflow. Valid values: OssAutoTrigger: automatically triggers the media workflow. NotInAuto: does not automatically trigger the media workflow.

Response parameters

Parameter	Type	Example	Description
RequestId	String	16CD0CDD-457E-420D-9755-8385075A1234	The ID of the request.
MediaWorkflow	Object		The details of the media workflow.
CreationTime	String	2016-04-01T05:29:37Z	The time when the media workflow was created.
MediaWorkflowId	String	e00732b977da427d9177a4dee646****	The ID of the media workflow.
State	String	Inactive	The status of the media workflow. Valid values: • Inactive: disabled • Active: enabled
TriggerMode	String	NotInAuto	The trigger mode of the media workflow. Valid values: • OssAutoTrigger: The media workflow is automatically triggered. • NotInAuto: The media workflow is not automatically triggered.
Name	String	example-mediaworkflow-****	The name of the media workflow.

Parameter	Type	Example	Description
Topology	String	<pre>{mediaworkflow","State":"Active","Topology": {"Activities": {"Act-Start": {"Parameters": {"PipelineId":"130 266f58161436a80bf 07cb12c8****","InputFile":" \\\\"Bucket\\": \\\\"example- bucket- ****\\","Location\\": \\\\"cn- shanghai\\"},"Type\\": "Start"},"Act-Report": {"Parameters": {},"Type":"Report "},"Act- Transcode-M3U8": {"Parameters": {"Outputs": [{"Object\\": "transcode/{ObjectP refix} {FileName}\\","Tem plateId\\": \\\\"957d1719ee85e d6527b90cf62726*** *\\"},"OutputBu cket":"example- bucket- ****","OutputLoca tion":"cn- shanghai"},"Type\\": "Transcode"},"Depen dencies": {"Act-Start": [{"Act-Transcode- M3U8"},"Act- Report":[],"Act- Transcode-M3U8": [{"Act- Report"}]}","Media WorkflowId":"93ab8 50b4f6f44eab54b6e 91d24d****"},"Requ estId":"16CD0CDD- 457E-420D-9755- 8385075A1234"}</pre>	The topology of the media workflow.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=UpdateMediaWorkflowTriggerMode
&MediaWorkflowId=e00732b977da427d9177a4dee646****
&TriggerMode=NotInAuto
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateMediaWorkflowTriggerModeResponse>
  <RequestId>16CD0CDD-457E-420D-9755-8385075A1234</RequestId>
  <MediaWorkflow>
    <CreationTime>2016-04-01T05:29:37Z</CreationTime>
    <MediaWorkflowId>e00732b977da427d9177a4dee646****</MediaWorkflowId>
    <State>Inactive</State>
    <TriggerMode>NotInAuto</TriggerMode>
    <Name>example-mediaworkflow-****</Name>
    <Topology>{mediaworkflow, "State": "Active", "Topology": {"Activities": {"Act-Start": {"Parameters": {"PipelineId": "130266f58161436a80bf07cb12c8****", "InputFile": {"Bucket": "example-bucket-****", "Location": "cn-shanghai"}}, "Type": "Start"}, "Act-Report": {"Parameters": {"Outputs": [{"Object": "transcode/{ObjectPrefix}{FileName}", "TemplateId": "957d1719ee85ed6527b90cf62726****"}], "OutputBucket": "example-bucket-****", "OutputLocation": "cn-shanghai"}, "Type": "Transcode"}}, "Dependencies": {"Act-Start": ["Act-Transcode-M3U8"], "Act-Report": [], "Act-Transcode-M3U8": ["Act-Report"]}}, "MediaWorkflowId": "93ab850b4f6f44eab54b6e91d24d****"}, "RequestId": "16CD0CDD-457E-420D-9755-8385075A1234"}</Topology>
  </MediaWorkflow>
</UpdateMediaWorkflowTriggerModeResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "16CD0CDD-457E-420D-9755-8385075A1234",
  "MediaWorkflow" : {
    "CreationTime" : "2016-04-01T05:29:37Z",
    "MediaWorkflowId" : "e00732b977da427d9177a4dee646****",
    "State" : "Inactive",
    "TriggerMode" : "NotInAuto",
    "Name" : "example-mediaworkflow-****",
    "Topology" : "{mediaworkflow\\,\\\"State\\\":\\\"Active\\\",\\\"Topology\\\":\\\"{\\\"Activities\\\":{\\\"Act-Start\\\":{\\\"Parameters\\\":{\\\"PipelineId\\\":\\\"130266f58161436a80bf07cb12c8****\\\",\\\"InputFile\\\":\\\"{\\\"Bucket\\\":\\\"example-bucket-****\\\",\\\"Location\\\":\\\"cn-shanghai\\\"}\\\"}\\\",\\\"Type\\\":\\\"Start\\\"}\\\",\\\"Act-Report\\\":{\\\"Parameters\\\":{\\\"Type\\\":\\\"Report\\\"}\\\",\\\"Act-Transcode-M3U8\\\":{\\\"Parameters\\\":{\\\"Outputs\\\":\\\"[{\\\"Object\\\":\\\"transcode/{ObjectPrefix}{FileName}\\\"}\\\",\\\"TemplateId\\\":\\\"957d1719ee85ed6527b90cf62726****\\\"}\\\",\\\"OutputBucket\\\":\\\"example-bucket-****\\\",\\\"OutputLocation\\\":\\\"cn-shanghai\\\"}\\\",\\\"Type\\\":\\\"Transcode\\\"}\\\",\\\"Dependencies\\\":{\\\"Act-Start\\\":[\\\"Act-Transcode-M3U8\\\"],\\\"Act-Report\\\":[],\\\"Act-Transcode-M3U8\\\":[\\\"Act-Report\\\"]}\\\",\\\"MediaWorkflowId\\\":\\\"93ab850b4f6f44eab54b6e91d24d****\\\"}\\\",\\\"RequestId\\\":\\\"16CD0CDD-457E-420D-9755-8385075A1234\\\"}"
  }
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

13. Media workflow execution instance management

13.1. ListMediaWorkflowExecutions

The ListMediaWorkflowExecutions API lists all media workflow execution instances.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>ListMediaWorkflowExecutions</i>
MediaWorkflowId	String	No	Media workflow ID.
MediaWorkflowName	String	No	Name of a media workflow.
InputFileURL	String	No	URL of the original file. - The URL format follows the RFC 3986 standard (The URL is encoded by UTF-8 and the reserved characters are URL encoded characters). - Example: <code>http://bucket-test.cn-hangzhou.aliyuncs.com/test-%e4%b8%ad%e6%96%87%e6%b5%8b%e8%af%95%e8%a7%86%e9%a2%91.flv</code>
NextPageToken	String	No	Identifier of the next page, which is a 32-bit UUID
MaximumPageSize	Long	No	Maximum number of media workflow execution instances that can be returned. - Value range: [1, 100]. - Default value: 10.

Response parameters

Parameter	Type	Description
MediaWorkflowExecutionList	MediaWorkflowExecution[]	Media workflow list.
NextPageToken	String	Identifier of the next page, which is a 32-bit UUID.

Examples

Request example

```
https://mts.cn-hangzhou.aliyuncs.com?MaximumPageSize=1&<public parameter>
```

Response example

XML

```
<ListMediaWorkflowExecutionsResponse>
  <NextPageToken>0a44e3792080497d825e46859abbb218</NextPageToken>
  <RequestId>946690FA-E7B9-42AF-A05B-CB7CF7AF3596</RequestId>
  <MediaWorkflowExecutionList>
    <MediaWorkflowExecution>
      <CreationTime>2016-04-01T06:53:43Z</CreationTime>
      <Name>ConcurrentSuccess</Name>
      <Input>
        <InputFile>
          <Bucket>inputfirst</Bucket>
          <Location>oss-test</Location>
          <Object>mediaWorkflow/ConcurrentSuccess/test-1280x1280-0_wp.mp4</Object>
        </InputFile>
      </Input>
      <State>Success</State>
      <RunId>9bd5a286b59d4cf19685d5b3c501e528</RunId>
      <ActivityList>
        <Activity>
          <Name>Act-1</Name>
          <State>Success</State>
          <Type>Start</Type>
          <EndTime>2016-04-01T06:53:44Z</EndTime>
          <StartTime>2016-04-01T06:53:44Z</StartTime>
        </Activity>
        <Activity>
          <Name>Act-2</Name>
          <State>Success</State>
          <Type>Transcode</Type>
          <JobId>2376030d9d0849399cd20e20c876f4f3</JobId>
          <EndTime>2016-04-01T06:54:00Z</EndTime>
          <StartTime>2016-04-01T06:53:45Z</StartTime>
        </Activity>
        <Activity>
          <Name>Act-3</Name>
          <State>Success</State>
```

```
<Type>Transcode</Type>
<JobId>f2fffd10aee504c15b0bd6f39b92ca667</JobId>
<EndTime>2016-04-01T06:54:03Z</EndTime>
<StartTime>2016-04-01T06:53:47Z</StartTime>
</Activity>
<Activity>
  <Name>Act-5</Name>
  <State>Success</State>
  <Type>Snapshot</Type>
  <JobId>5dd9639f217c43eda011a95ee121ffc3</JobId>
  <EndTime>2016-04-01T06:53:47Z</EndTime>
  <StartTime>2016-04-01T06:53:47Z</StartTime>
</Activity>
<Activity>
  <Name>Act-6</Name>
  <State>Success</State>
  <Type>Snapshot</Type>
  <JobId>617cb572ad204e8daaa7da4bbd6f63af</JobId>
  <EndTime>2016-04-01T06:54:01Z</EndTime>
  <StartTime>2016-04-01T06:54:01Z</StartTime>
</Activity>
<Activity>
  <Name>Act-7</Name>
  <State>Success</State>
  <Type>Report</Type>
  <EndTime>2016-04-01T06:54:03Z</EndTime>
  <StartTime>2016-04-01T06:54:03Z</StartTime>
</Activity>
</ActivityList>
<MediaId>21a32670ce4e1b1c93f569b2546f5180</MediaId>
</MediaWorkflowExecution>
</MediaWorkflowExecutionList>
</ListMediaWorkflowExecutionsResponse>
```

JSON

```
{
  "NextPageToken": "0a44e3792080497d825e46859abbb218",
  "RequestId": "F7353230-58EC-4866-B74B-F731C3A01D21",
  "MediaWorkflowExecutionList": {
    "MediaWorkflowExecution": [
      {
        "CreationTime": "2016-04-01T06:53:43Z",
        "Name": "ConcurrentSuccess",
        "Input": {
          "InputFile": {
            "Bucket": "inputfirst",
            "Location": "oss-test",
            "Object": "mediaWorkflow/ConcurrentSuccess/test-1280x1280-0_wp.mp4"
          }
        },
        "State": "Success",
        "RunId": "9bd5a286b59d4cf19685d5b3c501e528",
        "ActivityList": {
```

```
    "Activity": [
      {
        "Name": "Act-1",
        "State": "Success",
        "Type": "Start",
        "EndTime": "2016-04-01T06:53:44Z",
        "StartTime": "2016-04-01T06:53:44Z"
      },
      {
        "Name": "Act-2",
        "State": "Success",
        "Type": "Transcode",
        "JobId": "2376030d9d0849399cd20e20c876f4f3",
        "EndTime": "2016-04-01T06:54:00Z",
        "StartTime": "2016-04-01T06:53:45Z"
      },
      {
        "Name": "Act-3",
        "State": "Success",
        "Type": "Transcode",
        "JobId": "f2ffdl0aee504c15b0bd6f39b92ca667",
        "EndTime": "2016-04-01T06:54:03Z",
        "StartTime": "2016-04-01T06:53:47Z"
      },
      {
        "Name": "Act-5",
        "State": "Success",
        "Type": "Snapshot",
        "JobId": "5dd9639f217c43eda011a95ee121ffc3",
        "EndTime": "2016-04-01T06:53:47Z",
        "StartTime": "2016-04-01T06:53:47Z"
      },
      {
        "Name": "Act-6",
        "State": "Success",
        "Type": "Snapshot",
        "JobId": "617cb572ad204e8daaa7da4bbd6f63af",
        "EndTime": "2016-04-01T06:54:01Z",
        "StartTime": "2016-04-01T06:54:01Z"
      },
      {
        "Name": "Act-7",
        "State": "Success",
        "Type": "Report",
        "EndTime": "2016-04-01T06:54:03Z",
        "StartTime": "2016-04-01T06:54:03Z"
      }
    ],
    "MediaId": "21a32670ce4e1b1c93f569b2546f5180"
  }
}
```


13.2.

QueryMediaWorkflowExecutionList

Queries media workflow execution instances.

Description

- You can call this operation to query a maximum of 10 media workflow execution instances at a time.
- Before you call this operation, make sure that the workflow pipeline is enabled. Otherwise, the workflow may not run as expected. For example, the following exceptions may occur: the workflow node is invalid and jobs created in the workflow cannot be executed.

QPS limit

You can call this operation up to 100 times per second. Requests that exceed this limit are dropped and you will experience service interruptions. We recommend that you take note of this limit when you call this operation. For more information, see [QPS limit](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	QueryMediaWorkflowExecutionList	The operation that you want to perform. Set the value to QueryMediaWorkflowExecutionList .
RunIds	String	Yes	48e33690ac19445488c706924321***	The IDs of the media workflow execution instances. To obtain the instance ID, log on to the ApsaraVideo Media Processing (MPS) console and choose Workflows > Execution Instances in the left-side navigation pane. Separate multiple IDs with commas (.). You can query a maximum of 10 media workflow execution instances at a time.

Response parameters

Parameter	Type	Example	Description
NotExistRunIds	Array of String	null	The IDs of the execution instances that do not exist. null is returned if all specified execution instances exist.
MediaWorkflowExecutionList	Array of MediaWorkflow Execution		The details of the media workflows.
MediaWorkflow Execution			
CreationTime	String	016-04-01T06:53:43Z	The time when the media workflow was created.
MediaWorkflow Id	String	93ab850b4f6f44eab54b6e91****81d4	The ID of the media workflow.
State	String	Completed	The status of the media workflow. Valid values: - Running: The media workflow is running. - Completed: The media workflow is complete.  Note Completed only indicates that the media workflow is complete. View the status of each method in the workflow, such as the transcode and snapshot methods, to check whether the method is called. - Fail: The media workflow fails.
ActivityList	Array of Activity		The methods that are called in the media workflow.
Activity			
EndTime	String	2016-04-01T06:53:44Z	The time when the method ends.
Type	String	Start	The methods that are supported in the media workflow. Valid values: Start, Snapshot, Transcode, Analysis, and Report. For more information, see Methods supported for media workflows .

Parameter	Type	Example	Description
StartTime	String	2016-04-01T06:53:44Z	The time when the method is called.
State	String	Running	The status of the method. Valid values: - Running: The method is being called. - Success: The method is called. - Fail: The method failed to be called. - Skipped: The method is skipped. Note For example, after the analysis is complete, the transcode method is called and high-definition and standard-definition transcoding jobs are created. The system determines whether to run the jobs based on the analysis result. If the resolution of the input video is low, the high-definition transcoding job may be skipped.
JobId	String	2376030d9d0849399cd20e20f4f3****	The IDs of the jobs that are generated when the methods are called. For example, job IDs for the analysis, transcode, and snapshot methods.
Code	String	InvalidParameter.ResourceContentBad	The error code returned when the method fails to be called. - This parameter is returned only when Fail is returned for the State parameter.
Message	String	The resource operated InputFile is bad	The error message returned when the method fails to be called. - This parameter is returned only when Fail is returned for the State parameter.
Name	String	Start	The name of the method. Note The name of each method in a media workflow is unique.

Parameter	Type	Example	Description
MNSMessageResult	Object		The message sent by Message Service (MNS) to notify the user of the job result.
MessageId	String	4f3bc83233de4e2f81c7dade443e****	The ID of the message that indicates the MNS message is sent. This parameter is not returned if the MNS message fails to be sent.
ErrorMessage	String	MessageConfigEmpty	The error message returned when the MNS message fails to be sent. This parameter is not returned if the MNS message is sent.
ErrorCode	String	The Topic/Queue config is empty, not send message	The error code returned when the MNS message fails to be sent. This parameter is not returned if the MNS message is sent.
Name	String	example-mediaworkflow-****	The name of the media workflow.
Input	Object		The input data of the media workflow.
UserData	String	example data ****	The custom data.
InputFile	Object		The input file of the media workflow.
Object	String	example-mediaWorkflow-****/example-object-****/example.mp4	The name of the Object Storage Service (OSS) object that is used as the input file.
Location	String	mps-cn-shanghai	The ID of the region in which the input file resides.
Bucket	String	example-bucket-****	The name of the OSS bucket in which the input file is stored.
MediaId	String	512046582a924698a41e0f8b0d2b****	The ID of the media file. A media file contains all the information about a media workflow.
RunId	String	48e33690ac19445488c706924321****	The ID of the execution instance.

Parameter	Type	Example	Description
RequestId	String	D1D5C080-8E2F-5030-8AB4-13092F17631B	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=QueryMediaWorkflowExecutionList
&RunIds=48e33690ac19445488c706924321****
&<Common request parameters>
```

Sample success responses

`XML` format

```

HTTP/1.1 200 OK
Content-Type:application/xml
<QueryMediaWorkflowExecutionListResponse>
  <NonExistRunIds>null</NonExistRunIds>
  <MediaWorkflowExecutionList>
    <CreationTime>016-04-01T06:53:43Z</CreationTime>
    <MediaWorkflowId>93ab850b4f6f44eab54b6e91****81d4</MediaWorkflowId>
    <State>Completed</State>
    <ActivityList>
      <EndTime>2016-04-01T06:53:44Z</EndTime>
      <Type>Start</Type>
      <StartTime>2016-04-01T06:53:44Z</StartTime>
      <State>Running</State>
      <JobId>2376030d9d0849399cd20e20f4f3****</JobId>
      <Code>InvalidParameter.ResourceContentBad</Code>
      <Message>The resource operated InputFile is bad</Message>
      <Name>Start</Name>
      <MNSMessageResult>
        <MessageId>4f3bc83233de4e2f81c7dade443e****</MessageId>
        <ErrorMessage>MessageConfigEmpty</ErrorMessage>
        <ErrorCode>The Topic/Queue config is empty, not send message</ErrorCode>
      </MNSMessageResult>
    </ActivityList>
    <Name>example-mediaworkflow-****</Name>
    <Input>
      <UserData>example data ****</UserData>
      <InputFile>
        <Object>example-mediaWorkflow-****/example-object-****/example.mp4</Object>
        <Location>mps-cn-shanghai</Location>
        <Bucket>example-bucket-****</Bucket>
      </InputFile>
    </Input>
    <MediaId>512046582a924698a41e0f8b0d2b****</MediaId>
    <RunId>48e33690ac19445488c706924321****</RunId>
  </MediaWorkflowExecutionList>
  <RequestId>D1D5C080-8E2F-5030-8AB4-13092F17631B</RequestId>
</QueryMediaWorkflowExecutionListResponse>

```

JSON **format**

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "NonExistRunIds" : [ "null" ],
  "MediaWorkflowExecutionList" : [ {
    "CreationTime" : "016-04-01T06:53:43Z",
    "MediaWorkflowId" : "93ab850b4f6f44eab54b6e91****81d4",
    "State" : "Completed",
    "ActivityList" : [ {
      "EndTime" : "2016-04-01T06:53:44Z",
      "Type" : "Start",
      "StartTime" : "2016-04-01T06:53:44Z",
      "State" : "Running",
      "JobId" : "2376030d9d0849399cd20e20f4f3****",
      "Code" : "InvalidParameter.ResourceContentBad",
      "Message" : "The resource operated InputFile is bad",
      "Name" : "Start",
      "MNSMessageResult" : {
        "MessageId" : "4f3bc83233de4e2f81c7dade443e****",
        "ErrorMessage" : "MessageConfigEmpty",
        "ErrorCode" : "The Topic/Queue config is empty, not send message"
      }
    }
  ] ,
  "Name" : "example-mediaworkflow-****",
  "Input" : {
    "UserData" : "example data ****",
    "InputFile" : {
      "Object" : "example-mediaWorkflow-****/example-object-****/example.mp4",
      "Location" : "mps-cn-shanghai",
      "Bucket" : "example-bucket-****"
    }
  },
  "MediaId" : "512046582a924698a41e0f8b0d2b****",
  "RunId" : "48e33690ac19445488c706924321****"
} ,
"RequestId" : "D1D5C080-8E2F-5030-8AB4-13092F17631B"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14. Media APIs

14.1. AddMedia

The AddMedia API adds media.

Note

- After workflows are configured and a media file is uploaded to OSS, OSS automatically notifies Media Processing and Media Processing identifies the active workflow that matches a specific OSS bucket and object. Then the matched workflow is automatically executed. Therefore, in normal cases, files are automatically processed using the AddMedia without manual intervention, but you can manually call this API to process inventory video files in OSS without uploading.
- Media information is automatically obtained when the specified active workflow is executed. When no workflow is specified, media information is not obtained.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>AddMedia</i>
FileURL	String	Yes	Path to a media file, • which consists of up to 3,200 bytes. • The URL format follows the RFC 2396 standard. (The URL is subject to UTF-8 encoding and URL encoding.)
Title	String	No	Media title, • which consists of up to 128 bytes. • UTF-8 encoding.
Description	String	No	Description. • which consists of up to 1,024 bytes. • UTF-8 encoding.

Parameters	Type	Required or not	Description
CoverURL	String	No	Cover, • which consists of up to 3,200 bytes. • The URL format follows the RFC 2396 standard (The URL is subject to UTF-8 encoding and URL encoding).
CatId	Long	No	Category ID, which cannot be a negative number.
Tags	String	No	List of labels. • Separated by commas (,). Up to 16 tags. • Each tag consists of up to 32 bytes. • UTF-8 encoding.
MediaWorkflowId	String	No	Media workflow ID.
MediaWorkflowUserData	String	No	Custom data of a media workflow, • which consists of up to 1,024 bytes. • UTF-8 encoding.

Parameters	Type	Required or not	Description
OverrideParams	Json	No	Override parameters. - Example 1: HLS package subtitle override{ "WebVTTSubtitleOverrides" , [{"RefActivityName" :" subtitleNode" , WebVTTSubtitleURL :" http://test.oss-cn-hangzhou.aliyuncs.com/subtitle1.vtt"}]}. - Example 2: DASH package subtitle override{ "subtitleTransNodeName" : { "InputConfig" : { "Format" : " stl" , " InputFile" : { "URL" : " http://subtitleBucket.oss-cn-hangzhou.aliyuncs.com/package/subtitle/CENG.stl"}}}}

- Matching rules for workflow triggering

Matching rule execution policy: Check the workflow binding position based on the path to the new file. A match is found if the path contains the rule-bound string. For the path `http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/C/test1.flv` , the matching rules are as follows:

1. <code>http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/C/</code>	Matched
2. <code>http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/</code>	Matched
3. <code>http://bucket.oss-cn-hangzhou.aliyuncs.com/A/</code>	Matched
4. <code>http://bucket.oss-cn-hangzhou.aliyuncs.com/</code>	Matched
5. <code>http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/C/test.flv</code>	Matched
6. <code>http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/CC/</code>	Not matched
7. <code>http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B2/</code>	Not matched
8. <code>http://bucket.oss-cn-hangzhou.aliyuncs.com/A2/B/C/</code>	Not matched

Note Do not configure the input path of a workflow as the prefix of the input path of another workflow; otherwise, two workflow execution instances are triggered for the same incremental file. For example, the input path of a workflow is "test" and that of another workflow is "test1". After an input file is uploaded to the test1 folder, two workflow execution instances are triggered because the test1 folder also matches the "test" prefix.

- File name extension matching

Only a multimedia file can trigger a media workflow, which is determined by the media repository using the file name extension. The file does not contain an extension (the file name does not contain the extension separator ".") or the extension meets the following rules:

Note QoS is not guaranteed for files with the .swf file name extension in terms of screenshot and transcoding.

Type	File name extension
Video	3gp, asf, avi, dat, dv, flv, f4v, gif, m2t, m3u8, m4v, mj2, mjpeg, mkv, mov, mp4, mpe, mpg, mpeg, mts, ogg, qt, rm, rmvb, swf, ts, vob, wmv, webm
Audio	aac, ac3, acm, amr, ape, caf, flac, m4a, mp3, ra, wav, wma, aiff

- Media workflow message

Media workflows use Alibaba Cloud Message Service to send messages to users that access video cloud services after the Start and Report activities are completed. If you want to receive messages, set the MNS queue name and notification name on the Start node and use the Message Service SDK to obtain the messages that are stored in the MNS queue or notification. The message format is as follows:

Name	Type	Description
RunId	String	Workflow execution ID.
Name	String	Activity name.
Type	String	Activity type, which can be Report or Start.
State	String	Activity status, which can be fail or success.
Code	String	Error code. An error code is returned if the activity status is Fail.
Message	String	Error message. An error message is returned if the activity status is Fail.
MediaWorkflowExecution	MediaWorkflowExecution	Information of media workflow execution.

- Sample JSON message body:

```
{
  "RunId": "8f8aba5a62ab4127ae2add18da20b0f2",
  "Name": "Act-7",
  "Type": "Report",
  "State": "Success",
```

```

"MediaWorkflowExecution": {
  "Name": "ConcurrentSuccess",
  "RunId": "8f8aba5a62ab4127ae2add18da20b0f2",
  "Input": {
    "InputFile": {
      "Bucket": "inputfirst",
      "Location": "oss-test",
      "Object": "mediaWorkflow/ConcurrentSuccess/01.wmv"
    },
    "UserData": "test"
  },
  "State": "Success",
  "MediaId": "2be491ab4cb6499cd0befe5fcf0cb670",
  "ActivityList": [
    {
      "RunId": "8f8aba5a62ab4127ae2add18da20b0f2",
      "Name": "Act-1",
      "Type": "Start",
      "State": "Success",
      "StartTime": "2016-03-15T02: 53: 41Z",
      "EndTime": "2016-03-15T02: 53: 41Z"
    },
    {
      "RunId": "8f8aba5a62ab4127ae2add18da20b0f2",
      "Name": "Act-2",
      "Type": "Transcode",
      "JobId": "f34b6d1429dd491faa7a6c1c8f905285",
      "State": "Success",
      "StartTime": "2016-03-15T02: 53: 43Z",
      "EndTime": "2016-03-15T02: 53: 47Z"
    },
    {
      "RunId": "8f8aba5a62ab4127ae2add18da20b0f2",
      "Name": "Act-3",
      "Type": "Transcode",
      "JobId": "888ac3903ecf4898b9d790cf7f1d969e",
      "State": "Success",
      "StartTime": "2016-03-15T02: 53: 44Z",
      "EndTime": "2016-03-15T02: 53: 48Z"
    },
    {
      "RunId": "8f8aba5a62ab4127ae2add18da20b0f2",
      "Name": "Act-5",
      "Type": "Snapshot",
      "JobId": "c14150be33304825a5d67cd5364c35cb",
      "State": "Success",
      "StartTime": "2016-03-15T02: 53: 44Z",
      "EndTime": "2016-03-15T02: 53: 45Z"
    },
    {
      "RunId": "8f8aba5a62ab4127ae2add18da20b0f2",
      "Name": "Act-6",
      "Type": "Snapshot",
      "JobId": "8c30c30ca7324286afda1a9a1b14d03c",

```

```
        "State": "Success",
        "StartTime": "2016-03-15T02: 53: 48Z",
        "EndTime": "2016-03-15T02: 53: 49Z"
    },
    {
        "RunId": "8f8aba5a62ab4127ae2add18da20b0f2",
        "Name": "Act-7",
        "Type": "Report",
        "State": "Success",
        "StartTime": "2016-03-15T02: 53: 49Z",
        "EndTime": "2016-03-15T02: 53: 49Z"
    }
],
"CreationTime": "2016-03-15T02: 53: 39Z"
}
```

Response parameters

Parameter	Type	Description
Media	Media	Media

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?MediaWorkflowUserData=test&MediaWorkflowId=09bc2f74e39c48dd86597849e2b060f6&FileURL=http%3A%2F%2Fzzinput-test.oss-cn-hangzhou.aliyuncs.com%2Ftail_comm-33.mp4&<public parameter>
```

Response example

XML

```

<AddMediaResponse>
  <Media>
    <CoverURL>http://zzyoutputbucket.oss-cn-hangzhou.aliyuncs.com/aa9bb3115da54bfa7
4e0bd81a7a9e46%2F0.jpg</CoverURL>
    <Format>mov,mp4,m4a,3gp,3g2,mj2</Format>
    <PublishState>Published</PublishState>
    <Height>1280</Height>
    <MediaId>3e6149d5a8c944c09b1a8d2dc3e4ac65</MediaId>
    <Title>tail_comm-33.mp4</Title>
    <CreationTime>2016-09-20T03:02:40Z</CreationTime>
    <RunIdList>
      <RunId>adee42a78b1f407184a792b8777efb3c</RunId>
    </RunIdList>
    <CateId>0</CateId>
    <Duration>2.645333</Duration>
    <Width>1280</Width>
    <Fps>25.0</Fps>
    <Bitrate>1148.77</Bitrate>
    <Size>379860</Size>
  </Media>
  <RequestId>13E58723-4746-46A5-900D-B41D425A2A44</RequestId>
</AddMediaResponse>

```

JSON

```

{
  "Media": {
    "CoverURL": "http://zzyoutputbucket.oss-cn-hangzhou.aliyuncs.com/adee42a78b
1f407184a792b8777efb3c%2F0.jpg",
    "Format": "mov,mp4,m4a,3gp,3g2,mj2",
    "PublishState": "Published",
    "Height": "1280",
    "MediaId": "3e6149d5a8c944c09b1a8d2dc3e4ac65",
    "Title": "tail_comm-33.mp4",
    "CreationTime": "2016-09-20T03:02:40Z",
    "RunIdList": {
      "RunId": [
        "cbad98d35629470fa05ff393d347fd73"
      ]
    },
    "CateId": 0,
    "Duration": "2.645333",
    "Width": "1280",
    "Fps": "25.0",
    "Bitrate": "1148.77",
    "Size": "379860"
  },
  "RequestId": "A29ED91C-84A2-41FE-8F7F-116531A28544"
}

```

14.2. DeleteMedia

The DeleteMedia API deletes media. This API only deletes media logically, but does not delete the input/output physical files stored in OSS buckets.

Request parameters

Parameter	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>DeleteMedia</i>
MediaIds	String	Yes	Media ID list, separated by commas (.). A maximum of 10 media IDs can be entered at a time.

Response parameters

None

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?MediaIds=3e1cd21131a94525be55acf65888bf46&<public parameter>
```

Response example

XML

```
<DeleteMediaResponse>
  <RequestId>CFEF84B7-A57F-480F-B7FD-E0A649C76086</RequestId>
</DeleteMediaResponse>
```

JSON

```
{
  "RequestId": "CFEF84B7-A57F-480F-B7FD-E0A649C76086"
}
```

14.3. UpdateMedia

Updates the basic information about a media file.

Usage notes

The basic information that you can update by calling this operation includes the title, description, and category of a media file. This operation applies to a full update. You must set all the parameters unless you want to replace the value of a specific parameter with a NULL value.

Limits on QPS

You can call this operation up to 100 times per second. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateMedia	The operation that you want to perform. Set the value to UpdateMedia .
MediaId	String	Yes	3e1cd21131a94525be55acf65888***	The ID of the media file whose basic information you want to update. To obtain the ID of the media file, you can log on to the ApsaraVideo Media Processing (MPS) console and choose Media Management > Media List in the left-side navigation pane.
Title	String	No	hello	The title of the media file. Multiple character types, such as letters and digits, are supported. - If you do not specify this parameter, the value is NULL. - The value is encoded in UTF-8 and can be up to 128 bytes in length.
Description	String	No	example description	The description of the media file. Multiple character types, such as letters and digits, are supported. - If you do not specify this parameter, the value is NULL. - The value is encoded in UTF-8 and can be up to 1,024 bytes in length.

Parameter	Type	Required	Example	Description
CoverURL	String	No	http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/test****.jpg	The storage location of the thumbnail that you want to specify for the media file. To obtain the URL, you can log on to the MPS console and choose Workflows > Media Buckets. Alternatively, you can log on to the Object Storage Service (OSS) console and click My OSS Paths. • The value can be up to 3,200 bytes in length. • The URL complies with RFC 2396 and is encoded in UTF-8, with reserved characters being percent-encoded.
CatId	Long	No	1	The ID of the category to which the media file belongs. The value must be an integer. • If you do not specify this parameter, the value is NULL. • The value cannot be negative.
Tags	String	No	tag1,tag2	The tags that you want to add for the media file. • Separate multiple tags with commas (.). You can specify up to 16 tags for a media file. • Each tag can be up to 32 bytes in length. • The value is encoded in UTF-8.

Response parameters

Parameter	Type	Example	Description
RequestId	String	6A88246F-C91F-42BD-BABE-DB0DF993F960	The ID of the request.
Media	Object		The detailed information about the media file.
CreationTime	String	2016-09-14T08:30:33Z	The time when the media file was created.

Parameter	Type	Example	Description
CatId	Long	1	The ID of the category to which the media file belongs.
Height	String	1080	The height of the media file.
CensorState	String	Initiated	The review status of the video. Valid values: Initiated: The media file is uploaded but not reviewed. Pass: The media file is uploaded and passes the review.
Tags	Array of String	tag1,tag2	The tags of the media file.
Bitrate	String	2659.326	The bitrate of the media file.
MediaId	String	3e1cd21131a94525be55acf65888****	The ID of the media file.
File	Object		The information about the input file.
State	String	Normal	The status of the input file. Valid values: Normal: The input file is normal. Deleted: The input file is deleted.
URL	String	http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/example-****.mp4	The URL of the input file.
PublishState	String	Published	The publishing status of the media file. Valid values: Initiated: The media file is in the initial state. UnPublish: The media file has not been published, and the playback permission on the OSS object is Private. Published: The media file has been published, and the playback permission on the OSS object is Default. Deleted: The media file is deleted.

Parameter	Type	Example	Description
Description	String	example description	The description of the media file.
Width	String	1920	The width of the media file.
Size	String	2647692	The size of the media file.
CoverURL	String	http://example-bucket-****.oss-cn-shanghai.aliyuncs.com/example-****.jpg	The storage location of the media thumbnail.
RunIdList	Array of String	null	The IDs of the media workflow execution instances.
Duration	String	7.965000	The duration of the media file.
Fps	String	25.0	The frame rate of the media file.
Title	String	hello	The title of the media file.
Format	String	mov	The format of the media file. Valid values: mov, mp4, m4a, 3gp, 3g2, and mj2.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=UpdateMedia
&MediaId=3e1cd21131a94525be55acf65888****
&Title=hello
&Description=example description
&CoverURL=http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/test****.jpg
&CateId=1
&Tags=tag1,tag2
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateMediaResponse>
  <RequestId>6A88246F-C91F-42BD-BABE-DB0DF993F960</RequestId>
  <Media>
    <CreationTime>2016-09-14T08:30:33Z</CreationTime>
    <CateId>1</CateId>
    <Height>1080</Height>
    <CensorState>Initiated</CensorState>
    <Tags>tag1,tag2</Tags>
    <Bitrate>2659.326</Bitrate>
    <MediaId>3e1cd21131a94525be55acf65888****</MediaId>
    <File>
      <State>Normal</State>
      <URL>http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/example-****.mp4<
/URL>
    </File>
    <PublishState>Published</PublishState>
    <Description>example description</Description>
    <Width>1920</Width>
    <Size>2647692</Size>
    <CoverURL>http://example-bucket-****.oss-cn-shanghai.aliyuncs.com/example-****.jpg<
/CoverURL>
    <RunIdList>{"RunId":["47b42486019c4f688bf144cla6ba****"]}</RunIdList>
    <Duration>7.965000</Duration>
    <Fps>25.0</Fps>
    <Title>hello</Title>
    <Format>mov</Format>
  </Media>
</UpdateMediaResponse>
```

JSON **format**

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "6A88246F-C91F-42BD-BABE-DB0DF993F960",
  "Media" : {
    "CreationTime" : "2016-09-14T08:30:33Z",
    "CateId" : 1,
    "Height" : "1080",
    "CensorState" : "Initiated",
    "Tags" : [ "tag1,tag2" ],
    "Bitrate" : "2659.326",
    "MediaId" : "3e1cd21131a94525be55acf65888****",
    "File" : {
      "State" : "Normal",
      "URL" : "http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com//example-****.mp4"
    },
    "PublishState" : "Published",
    "Description" : "example description",
    "Width" : "1920",
    "Size" : "2647692",
    "CoverURL" : "http://example-bucket-****.oss-cn-shanghai.aliyuncs.com/example-****.jpg"
  },
  "RunIdList" : [ "{ \"RunId\": [\"47b42486019c4f688bf144c1a6ba****\"] }" ],
  "Duration" : "7.965000",
  "Fps" : "25.0",
  "Title" : "hello",
  "Format" : "mov"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14.4. UpdateMediaCategory

Updates the category to which a media file belongs.

Usage notes

You can call this operation to update only the category of a media file. For more information about how to update all the information about a media file, see [UpdateMedia](#).

Limits on QPS

You can call this operation up to 100 times per second. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateMediaCategory	The operation that you want to perform. Set the value to UpdateMediaCategory .
MediaId	String	Yes	3e1cd21131a94525be55acf65888***	The ID of the media file whose category you want to update.  Note To obtain the ID of a media file, you can call the AddMedia operation. Alternatively, perform the following operations in the ApsaraVideo Media Processing (MPS) console: In the left-side navigation pane, choose Media Management > Media List. Find the required video and click Manage. The ID of the video is displayed on the Basics tab.
CateId	Long	No	1	The ID of the category. The value cannot be negative.

Response parameters

Parameter	Type	Example	Description
RequestId	String	E3931857-E3D3-4D6E-9C7B-D2C09441BD01	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=UpdateMediaCategory
&MediaId=3e1cd21131a94525be55acf65888***
&CateId=1
&<Common request parameters>
```

Sample success responses

`XML` format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateMediaCategoryResponse>
  <RequestId>E3931857-E3D3-4D6E-9C7B-D2C09441BD01</RequestId>
</UpdateMediaCategoryResponse>
```

JSON **format**

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "E3931857-E3D3-4D6E-9C7B-D2C09441BD01"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14.5. UpdateMediaCover

Updates the thumbnail of a media file.

Usage notes

You can call this operation to update only the thumbnail of a media file. For more information about how to update all the information about a media file, see [UpdateMedia](#).

Limits on QPS

You can call this operation up to 100 times per second. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UpdateMediaCover	The operation that you want to perform. Set the value to UpdateMediaCover .

Parameter	Type	Required	Example	Description
MediaId	String	Yes	6cc3aa66d1cb4b b2adf14e726c0a* ***	The ID of the media file whose thumbnail you want to update. To obtain the ID of a media file, you can call the AddMedia operation. Alternatively, perform the following operations in the ApsaraVideo Media Processing (MPS) console: In the left-side navigation pane, choose Media Management > Media List . Find the required video and click Manage . The ID of the video is displayed on the Basics tab.
CoverURL	String	No	http://example- bucket-****.oss- cn- hangzhou.aliyunc s.com//example- ****.mp4	The URL of the thumbnail that you want to specify for the media file. The URL complies with RFC 2396 and is encoded in UTF-8. The URL can be up to 3,200 bytes in length.  Note To obtain the thumbnail URL, you can find the image in the Object Storage Service (OSS) bucket and click the image to view details. In the View Details panel, copy the part before the question mark (?) from the URL field. You can enter only an HTTP URL.

Response parameters

Parameter	Type	Example	Description
RequestId	String	0DC39B9E-13D4- 40BA-AE76- CFF9BD64239D	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=UpdateMediaCover
&MediaId=6cc3aa66d1cb4bb2adf14e726c0a****
&CoverURL=http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com//example-****.mp4
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UpdateMediaCoverResponse>
  <RequestId>0DC39B9E-13D4-40BA-AE76-CFF9BD64239D</RequestId>
</UpdateMediaCoverResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "0DC39B9E-13D4-40BA-AE76-CFF9BD64239D"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14.6. AddMediaTag

The AddMediaTag API adds a media tag.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>AddMediaTag</i>
MediaId	String	Yes	Media ID.
Tag	String	Yes	Media tags, which consists of up to 32 UTF-8 encoded bytes.

Response parameters

None

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?Tag=tag1&MediaId=3e6149d5a8c944c09b1a8d2dc3e4ac65&<public parameter>
```

Response example

XML

```
<AddMediaTagResponse>
  <RequestId>218A353B-A487-423F-9D74-26518650EEF7</RequestId>
</AddMediaTagResponse>
```

JSON

```
{
  "RequestId": "218A353B-A487-423F-9D74-26518650EEF7"
}
```

14.7. DeleteMediaTag

Removes a tag for a media file.

Usage notes

You can call this operation to remove only one tag at a time.

Limits on QPS

You can call this operation up to 100 times per second. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	DeleteMediaTag	The operation that you want to perform. Set the value to DeleteMediaTag .

Parameter	Type	Required	Example	Description
MediaId	String	Yes	3e6149d5a8c944c09b1a8d2dc3e4****	The ID of the media file for which you want to remove a tag. To obtain the ID of a media file, you can call the AddMedia operation. Alternatively, perform the following operations in the ApsaraVideo Media Processing (MPS) console: In the left-side navigation pane, choose Media Management > Media List . Find the required video and click Manage . The ID of the video is displayed on the Basics tab.
Tag	String	No	tag1	The media tag that you want to remove. The value is encoded in UTF-8 and can be up to 32 bytes in length.  Note You can remove only one tag at a time.

Response parameters

Parameter	Type	Example	Description
RequestId	String	283DC68C-146F-4489-A2A1-2F88F1472A56	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=DeleteMediaTag
&MediaId=3e6149d5a8c944c09b1a8d2dc3e4****
&Tag=tag1
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<DeleteMediaTagResponse>
  <RequestId>283DC68C-146F-4489-A2A1-2F88F1472A56</RequestId>
</DeleteMediaTagResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "283DC68C-146F-4489-A2A1-2F88F1472A56"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

14.8. UpdateMediaPublishState

The UpdateMediaPublishState API updates the status of media publishing. Publishing is equivalent to setting all media resources to be played. The screenshot file access permission inherits the access permission on the bucket that stores the screenshot file. Media resources that are not published are set to Private.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>UpdateMediaPublishState</i>
MediaId	String	Yes	Media ID.
Publish	Boolean	Yes	Publication status, which can be True or False.

Rules of media publication status transition:

- Default status:

The default status of media publication is “Initial”. A media file is in the default status under two conditions:

- Add media

After a media file is generated (a media workflow is also triggered) for the first time, the media file is neither published nor unpublished while workflow execution is in progress. The media file is in “Initial” state. After workflow execution is complete, the media file is set to a definite state (according to the workflow configuration).

- Delete media

After a media file is deleted, the publication status is meaningless and the file is in “Initial” state. To restore the deleted media file to the library, execute a workflow on the file as new media.

- Migration rules:

Caller	Current status	Status after transition	Allowed or not
API	Initial	Published	No
API	Initial	Unpublished	No
API	Published	Unpublished	Yes
API	Unpublished	Published	Yes
Workflow execution	Initial	Published	Yes
Workflow execution	Initial	Unpublished	Yes
Workflow execution	Published	Unpublished	No
Workflow execution	Unpublished	Published	No

Response parameters

None

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?Publish=True&<public parameter>
```

Response example

XML

```
<UpdateMediaPublishStateResponse>
  <RequestId>179F447A-B688-4268-9662-9ECC43B235BF</RequestId>
</UpdateMediaPublishStateResponse>
```

JSON

```
{
  "RequestId": "D591D0DE-8341-4C51-A519-8BF68498DDDC"
}
```

14.9. QueryMediaList

The QueryMediaList API queries media sets by media IDs.

Request parameters

Parameters	Type	Required or not	Description
------------	------	-----------------	-------------

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>QueryMediaList</i>
MediaIds	String	Yes	A list of file names, separated by commas (,). A maximum of 10 file names can be entered.
IncludePlaylist	Boolean	No	Whether the results contain a playlist. • Optional values: true or false. • Default value: false.
IncludeSnapshotList	Boolean	No	Whether the results contain a screenshot list. • Optional values: true or false. • Default value: false.
IncludeMediaInfo	Boolean	No	Whether the results contain media information. Optional values: True/False; default value: False.

Response parameters

Parameter	Type	Description
MediaList	Media []	Media list
NotExistMediaIds	String[]	A list of nonexistent media IDs

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?MediaIds=3e1cd21131a94525be55acf65888bf46&<public parameter>
```

Response example

XML

```

<QueryMediaListResponse>
  <NonExistMediaIds/>
  <MediaList>
    <Media>
      <CoverURL>http://zzyoutputbucket.oss-cn-hangzhou.aliyuncs.com/47b42486019c4f688bf144c1a6ba059a%2F0.jpg</CoverURL>
      <Format>mov,mp4,m4a,3gp,3g2,mj2</Format>
      <PublishState>Published</PublishState>
      <File>
        <State>Normal</State>
        <URL>http://zzzinput-test.oss-cn-hangzhou.aliyuncs.com/output-2016-01-07-09%3A37%3A17.mp485191.mp4</URL>
      </File>
      <Height>1080</Height>
      <MediaId>3e1cd21131a94525be55acf65888bf46</MediaId>
      <Title>output-2016-01-07-09:37:17.mp485191.mp4</Title>
      <CreationTime>2016-09-14T08:30:33Z</CreationTime>
      <RunIdList>
        <RunId>47b42486019c4f688bf144c1a6ba059a</RunId>
      </RunIdList>
      <CateId>0</CateId>
      <MediaInfo>
        <Format/>
        <Streams/>
      </MediaInfo>
      <Duration>7.965000</Duration>
      <Width>1920</Width>
      <Fps>25.0</Fps>
      <Bitrate>2659.326</Bitrate>
      <Size>2647692</Size>
    </Media>
  </MediaList>
  <RequestId>2F6D69DE-DAD0-4D8A-BB2C-DACAE76D60E3</RequestId>
</QueryMediaListResponse>

```

JSON

```
{
  "NonExistMediaIds": {
    "MediaId": [ ]
  },
  "MediaList": {
    "Media": [
      {
        "CoverURL": "http://zzyoutputbucket.oss-cn-hangzhou.aliyuncs.com/47b42486019c4f688bf144c1a6ba059a%2F0.jpg",
        "Format": "mov,mp4,m4a,3gp,3g2,mj2",
        "PublishState": "Published",
        "File": {
          "State": "Normal",
          "URL": "http://zzzinput-test.oss-cn-hangzhou.aliyuncs.com/output-2016-01-07-09%3A37%3A17.mp485191.mp4"
        },
        "Height": "1080",
        "MediaId": "3e1cd21131a94525be55acf65888bf46",
        "Title": "output-2016-01-07-09:37:17.mp485191.mp4",
        "CreationTime": "2016-09-14T08:30:33Z",
        "RunIdList": {
          "RunId": [
            "47b42486019c4f688bf144c1a6ba059a"
          ]
        },
        "CateId": 0,
        "MediaInfo": {
          "Format": { },
          "Streams": { }
        },
        "Duration": "7.965000",
        "Width": "1920",
        "Fps": "25.0",
        "Bitrate": "2659.326",
        "Size": "2647692"
      }
    ]
  },
  "RequestId": "F1C8B6C4-1E47-4423-9BC8-2F5DDBD892DC"
}
```

14.10. QueryMediaListByURL

Queries media files based on their Object Storage Service (OSS) URLs.

Usage notes

- You can call this operation to query up to 10 media files at a time.
- To obtain comprehensive information about a media file that is newly uploaded to OSS, you can call this operation after the corresponding workflow is complete.

QPS limit

You can call this operation up to 100 times per second per account. Requests that exceed this limit are dropped and you will experience service interruptions. We recommend that you take note of this limit when you call this operation. For more information, see [QPS limit](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	QueryMediaListByURL	The operation that you want to perform. Set the value to QueryMediaListByURL .
FileURLs	String	Yes	<code>http://example-bucket-****.oss-cn-shanghai.aliyuncs.com/example.mp4</code>	The OSS URLs of the media files. To obtain the OSS URL of a media file, you can perform the following operations in the ApsaraVideo Media Processing (MPS) console: In the left-side navigation pane, choose Media Management > Media List. Find the media file whose OSS URL you want to view and click Manage in the Actions column. The OSS URL of the media file is displayed on the Obtain Encoding URL tab. Separate multiple URLs with commas (,). You can query up to 10 media files at a time. - The URL complies with RFC 3986 and is encoded in UTF-8, with reserved characters being percent-encoded. The value can be up to 3,200 bytes in size. - Only OSS HTTP URLs are supported. Alibaba Cloud CDN URLs and HTTPS URLs are not supported.
IncludePlayList	Boolean	No	true	Specifies whether to include playback information in the returned result. - Valid values: true and false. - Default value: false.

Parameter	Type	Required	Example	Description
IncludeSnapshotList	Boolean	No	true	Specifies whether to include snapshot information in the returned result. - Valid values: true and false. - Default value: false.
IncludeMediaInfo	Boolean	No	true	Specifies whether to include media information in the returned result. - Valid values: true and false. - Default value: false.  Note To obtain detailed information about the media files, set this parameter to true.
IncludeSummaryList	Boolean	No	true	Specifies whether to include summaries in the returned result. - Valid values: true and false. - Default value: false.

Response parameters

Parameter	Type	Example	Description
MediaList	Array of Media		The list of media files.
Media			
CreationTime	String	2021-07-14T13:05:00Z	The time when the media file was created.
CatId	Long	123	The ID of the category to which the media file belongs.
Height	String	360	The height of the queried media file.
CensorState	String	Initiated	The review status of the media file. Valid values: Initiated: The media file is uploaded but not reviewed. Pass: The media file is uploaded and passes the review.

Parameter	Type	Example	Description
Tags	Array of String	tag1,tag2	The tags of the media file.
PlayList	Array of Play		The playlist.
Play			
Encryption	String	1	Indicates whether the media file is encrypted. Valid values: 0: The media file is not encrypted. 1: The media file is encrypted.
Height	String	10	The height of the media file.
Bitrate	String	25.067	The bitrate of the media file.
File	Object		The playback file.
State	String	Normal	The status of the media file. Valid values: Normal: normal Deleted: deleted
URL	String	http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com//example-****.mp4-test/in/1.mp4	The OSS URL of the playback file.
MediaWorkflowId	String	6cc3aa66d1cb4bb2a df14e726c0a****	The ID of the workflow that generates the playback file.
Width	String	11	The width.
Size	String	100	The size.
Fps	String	25.0	The frame rate.
Duration	String	7.965000	The duration.

Parameter	Type	Example	Description
ActivityName	String	test name	The name of the workflow activity.
Format	String	mov	The encoding format. Valid values: mov, mp4, m4a, 3gp, 3g2, and mj2.
MediaWorkflow Name	String	example-mediaworkflow-****	The name of the workflow that generates the playback file.
Bitrate	String	593.192	The bitrate.
MediaId	String	52d7e98b05e648199612290bb819****	The ID of the media file.
File	Object		The details of the input file.
State	String	Normal	The status of the input file. Valid values: Normal: normal Deleted: deleted
URL	String	http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com//example-****.mp4	The OSS URL of the input file.
SummaryList	Array of Summary		The list of video summaries.
Summary			
Type	String	Gif	The type of the summary. Valid values: Video: video Gif: dynamic image
MediaWorkflow Id	String	93ab850b4f6f44eab54b6e91d24d****	The ID of the workflow that generates the summary.
ActivityName	String	example-activity-****	The name of the workflow activity.
MediaWorkflow Name	String	example-mediaworkflow-****	The name of the workflow that generates the summary.

Parameter	Type	Example	Description
File	Object		The information about the input file.
State	String	Normal	The status of the input file. Valid values: Normal: normal Deleted: deleted
URL	String	http://example-bucket-****.o	The OSS URL of the input file.
PublishState	String	Published	The publishing status of the media file. Valid values: Initiated: The media file is in the initial state. UnPublish: The media file has not been published, and the playback permission on the OSS object is Private. Published: The media file has been published, and the playback permission on the OSS object is Default. Deleted: The media file has been deleted.
MediaInfo	Object		The media information.
Streams	Object		The stream information.
VideoStreamList	Array of VideoStream		The list of video streams.
VideoStream			
Sar	String	1:1	The sample aspect ratio (SAR).
Height	String	360	The latter number in the video resolution. The number indicates the video height.
CodecTagString	String	avc1	The tag string of the encoding format.
NetworkCost	Object		The network bandwidth consumption.

Parameter	Type	Example	Description
PreloadTime	String	0.01	The amount of preload time.
AvgBitrate	String	2659.326	The average bitrate.
CostBandwidth	String	100	The maximum bandwidth that was consumed.
Width	String	640	The former number in the video resolution. The number indicates the video width and cannot be negative.
Index	String	5	The sequence number of the video stream. The value indicates the position of the video stream in all video streams.
Timebase	String	1/15360	The time base.
AvgFPS	String	15.0	The average frame rate.
PixFmt	String	yuv420p	The pixel format.
Lang	String	und	The language. For more information, see FFmpeg documentation .
CodecLongName	String	H.264/AVC/MPEG-4 AVC/MPEG-4 part 10	The full name of the encoding format.
NumFrames	String	12	The total number of frames.
Rotate	String	90	The video rotation angle.
Bitrate	String	512.701	The bitrate.
HasBFrames	String	2	Indicates whether the video stream contains bidirectional frames (B-frames). A value of 1 indicates that the video stream contains B-frames. A value of 2 indicates that the video stream does not contain B-frames.

Parameter	Type	Example	Description
Profile	String	High	The codec profile.
StartTime	String	0.046029	The start time.
Dar	String	16:9	The display aspect ratio (DAR).
CodecName	String	H264	The short name of the encoding format. Valid values: H264, mov, aac, avc, and mpeg.
Duration	String	79.200000	The duration.
Fps	String	15.0	The frame rate.
CodecTag	String	0x31637661	The tag of the encoding format.
CodecTimeBase	String	1/30	The codec time base.
Level	String	31	The codec level.
AudioStreamList	Array of AudioStream		The list of audio streams.
AudioStream			
Timebase	String	1/44100	The time base.
Index	String	1	The sequence number of the audio stream. The value indicates the position of the audio stream in all audio streams.
SampleFmt	String	fltp	The sampling format.
ChannelLayout	String	stereo	The output layout of the sound channels.
Lang	String	und	The language. For more information, see FFmpeg language definition .
Samplerate	String	44100	The sampling rate.

Parameter	Type	Example	Description
CodecLongName	String	AAC (Advanced Audio Coding)	The full name of the encoding format.
Channels	String	2	The number of sound channels.
NumFrames	String	100	The total number of frames.
Bitrate	String	76.356	The bitrate.
CodecTagString	String	mp4a	The tag string of the encoding format.
StartTime	String	0.000000	The start time.
CodecName	String	aac	The short name of the encoding format. Valid values: H264, mov, aac, avc, and mpeg.
Duration	String	79.203265	The duration.
CodecTag	String	0x6134706d	The tag of the encoding format.
CodecTimeBase	String	1/44100	The codec time base.
SubtitleStreamList	Array of SubtitleStream		The list of subtitle streams.
SubtitleStream			
Index	String	1	The sequence number of the subtitle stream. The value indicates the position of the subtitle stream in all subtitle streams.
Lang	String	und	The language. For more information, see FFmpeg language definition .
Format	Object		The format information.
StartTime	String	0.000000	The start time.

Parameter	Type	Example	Description
NumPrograms	String	0	The total number of program streams.
Size	String	5872904	The size.
NumStreams	String	2	The total number of media streams.
FormatLongName	String	QuickTime/MOV	The full name of the encoding format.
Duration	String	79.204000	The duration.
Bitrate	String	593.192	The bitrate.
FormatName	String	mov	The short name of the container format. Valid values: mov, mp4, m4a, 3gp, 3g2, and mj2.
Description	String	This is description ****	The description.
Size	String	5872904	The size of the file.
Width	String	640	The width.
CoverURL	String	http://example-bucket1-****.oss-cn-hangzhou.aliyuncs.com/example-****.png	The OSS URL of the thumbnail.
SnapshotList	Array of Snapshot		The list of snapshots.
Snapshot			
Type	String	Single	The type of the snapshot. Valid values: • Single: a single snapshot • Sequence: snapshots in sequence

Parameter	Type	Example	Description
MediaWorkflowId	String	6cc3aa66d1cb4bb2a df14e726c0a****	The ID of the workflow that generates the snapshot.
ActivityName	String	example-activity1- ****	The name of the workflow activity that generates the snapshot.
Count	String	3	The number of snapshots. This parameter is valid only when the value of the Type parameter is Sequence .
MediaWorkflowName	String	example-workflow- ****	The name of the workflow that generates the snapshot.
File	Object		The snapshot.
State	String	Normal	The status of the file. Valid values: • Normal: normal • Deleted: deleted
URL	String	http://example1- bucket1-****.oss-cn- hangzhou.aliyuncs.c om//example111- ****.png	The OSS URL of the snapshot.
RunIdList	Array of String	9343bd0e7bb54ae1 9228529908e5****	The IDs of the media workflow execution instances.
Duration	String	79.204000	The duration.
Fps	String	15.0	The frame rate.
Title	String	kled.mp4	The title.
Format	String	mov	The encoding format. Valid values: mov, mp4, m4a, 3gp, 3g2, and mj2.
NotExistFileURLs	Array of String	null	The IDs of the media files that do not exist. This parameter is not returned if all specified media files exist.

Parameter	Type	Example	Description
RequestId	String	1C8A0AEB-4321-485B-B4CB-DA4E9E6C9B42	The ID of the request.

Examples

Sample request

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=QueryMediaListByURL
&FileURLs=http://example-bucket-****.oss-cn-shanghai.aliyuncs.com/example.mp4
&IncludePlayList=true
&IncludeSnapshotList=true
&IncludeMediaInfo=true
&IncludeSummaryList=true
&<Common request parameters>
```

Sample success response

XML **format**

```
HTTP/1.1 200 OK
Content-Type:application/xml
<QueryMediaListByURLResponse>
  <MediaList>
    <CreationTime>2021-07-14T13:05:00Z</CreationTime>
    <CateId>123</CateId>
    <Height>360</Height>
    <CensorState>Initiated</CensorState>
    <Tags>tag1,tag2</Tags>
    <PlayList>
      <Encryption>1</Encryption>
      <Height>10</Height>
      <Bitrate>25.067</Bitrate>
      <File>
        <State>Normal</State>
        <URL>http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com//example-****.
mp41-test/in/1.mp4</URL>
      </File>
      <MediaWorkflowId>6cc3aa66d1cb4bb2adf14e726c0a****</MediaWorkflowId>
      <Width>11</Width>
      <Size>100</Size>
      <Fps>25.0</Fps>
      <Duration>7.965000</Duration>
      <ActivityName>test name</ActivityName>
      <Format>mov</Format>
      <MediaWorkflowName>example-mediaworkflow-****</MediaWorkflowName>
    </PlayList>
    <Bitrate>593.192</Bitrate>
    <MediaId>52d7e98b05e648199612290bb819****</MediaId>
    <File>
      <State>Normal</State>
      <URL>http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com//example-****.mp4<
```

```

/URL>
  </File>
  <SummaryList>
    <Type>Gif</Type>
    <MediaWorkflowId>93ab850b4f6f44eab54b6e91d24d****</MediaWorkflowId>
    <ActivityName>example-activity-****</ActivityName>
    <MediaWorkflowName>example-mediaworkflow-****</MediaWorkflowName>
    <File>
      <State>Normal</State>
      <URL>http://example-bucket-****.o</URL>
    </File>
  </SummaryList>
  <PublishState>Published</PublishState>
  <MediaInfo>
    <Streams>
      <VideoStreamList>
        <Sar>1:1</Sar>
        <Height>360</Height>
        <CodecTagString>avc1</CodecTagString>
        <NetworkCost>
          <PreloadTime>0.01</PreloadTime>
          <AvgBitrate>2659.326</AvgBitrate>
          <CostBandwidth>100</CostBandwidth>
        </NetworkCost>
        <Width>640</Width>
        <Index>5</Index>
        <Timebase>1/15360</Timebase>
        <AvgFPS>15.0</AvgFPS>
        <PixelFormat>yuv420p</PixelFormat>
        <Lang>und</Lang>
        <CodecLongName>H.264/AVC/MPEG-4 AVC/MPEG-4 part 10</CodecLongName>
        <NumFrames>12</NumFrames>
        <Rotate>90</Rotate>
        <Bitrate>512.701</Bitrate>
        <HasBFrames>2</HasBFrames>
        <Profile>High</Profile>
        <StartTime>0.046029</StartTime>
        <Dar>16:9</Dar>
        <CodecName>H264</CodecName>
        <Duration>79.200000</Duration>
        <Fps>15.0</Fps>
        <CodecTag>0x31637661</CodecTag>
        <CodecTimeBase>1/30</CodecTimeBase>
        <Level>31</Level>
      </VideoStreamList>
      <AudioStreamList>
        <Timebase>1/44100</Timebase>
        <Index>1</Index>
        <SampleFmt>fltp</SampleFmt>
        <ChannelLayout>stereo</ChannelLayout>
        <Lang>und</Lang>
        <Samplerate>44100</Samplerate>
        <CodecLongName>AAC (Advanced Audio Coding)</CodecLongName>
        <Channels>2</Channels>
      </AudioStreamList>
    </Streams>
  </MediaInfo>
</File>
</SummaryList>
</PublishState>Published</PublishState>
</MediaInfo>
</Streams>
</VideoStreamList>
</AudioStreamList>
</MediaInfo>
</PublishState>Published</PublishState>
</SummaryList>
</File>
</URL>

```

```

        <NumFrames>100</NumFrames>
        <Bitrate>76.356</Bitrate>
        <CodecTagString>mp4a</CodecTagString>
        <StartTime>0.000000</StartTime>
        <CodecName>aac</CodecName>
        <Duration>79.203265</Duration>
        <CodecTag>0x6134706d</CodecTag>
        <CodecTimeBase>1/44100</CodecTimeBase>
    </AudioStreamList>
    <SubtitleStreamList>
        <Index>1</Index>
        <Lang>und</Lang>
    </SubtitleStreamList>
</Streams>
<Format>
    <StartTime>0.000000</StartTime>
    <NumPrograms>0</NumPrograms>
    <Size>5872904</Size>
    <NumStreams>2</NumStreams>
    <FormatLongName>QuickTime/MOV</FormatLongName>
    <Duration>79.204000</Duration>
    <Bitrate>593.192</Bitrate>
    <FormatName>mov</FormatName>
</Format>
</MediaInfo>
<Description>This is description ****</Description>
<Size>5872904</Size>
<Width>640</Width>
<CoverURL>http://example-bucket1-****.oss-cn-hangzhou.aliyuncs.com//example-****.png</CoverURL>
    <SnapshotList>
        <Type>Single</Type>
        <MediaWorkflowId>6cc3aa66d1cb4bb2adf14e726c0a****</MediaWorkflowId>
        <ActivityName>example-activity1-****</ActivityName>
        <Count>3</Count>
        <MediaWorkflowName>example-workflow-****</MediaWorkflowName>
        <File>
            <State>Normal</State>
            <URL>http://example1-bucket1-****.oss-cn-hangzhou.aliyuncs.com//example111-****.png</URL>
        </File>
    </SnapshotList>
    <RunIdList>9343bd0e7bb54ae19228529908e5****</RunIdList>
    <Duration>79.204000</Duration>
    <Fps>15.0</Fps>
    <Title>kled.mp4</Title>
    <Format>mov</Format>
</MediaList>
<NotExistFileURLs>null</NotExistFileURLs>
<RequestId>1C8A0AEB-4321-485B-B4CB-DA4E9E6C9B42</RequestId>
</QueryMediaListByURLResponse>

```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "MediaList" : [ {
    "CreationTime" : "2021-07-14T13:05:00Z",
    "CateId" : 123,
    "Height" : "360",
    "CensorState" : "Initiated",
    "Tags" : [ "tag1,tag2" ],
    "Playlist" : [ {
      "Encryption" : "1",
      "Height" : "10",
      "Bitrate" : "25.067",
      "File" : {
        "State" : "Normal",
        "URL" : "http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com//example-****.mp41-test/in/1.mp4"
      },
      "MediaWorkflowId" : "6cc3aa66d1cb4bb2adf14e726c0a****",
      "Width" : "11",
      "Size" : "100",
      "Fps" : "25.0",
      "Duration" : "7.965000",
      "ActivityName" : "test name",
      "Format" : "mov",
      "MediaWorkflowName" : "example-mediaworkflow-****"
    } ],
    "Bitrate" : "593.192",
    "MediaId" : "52d7e98b05e648199612290bb819****",
    "File" : {
      "State" : "Normal",
      "URL" : "http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com//example-****.mp4"
    },
    "SummaryList" : [ {
      "Type" : "Gif",
      "MediaWorkflowId" : "93ab850b4f6f44eab54b6e91d24d****",
      "ActivityName" : "example-activity-****",
      "MediaWorkflowName" : "example-mediaworkflow-****",
      "File" : {
        "State" : "Normal",
        "URL" : "http://example-bucket-****.o"
      }
    } ],
    "PublishState" : "Published",
    "MediaInfo" : {
      "Streams" : {
        "VideoStreamList" : [ {
          "Sar" : "1:1",
          "Height" : "360",
          "CodecTagString" : "avc1",
          "NetworkCost" : {
            "PreloadTime" : "0.01",
            "AvgBitrate" : "2659.326",
            "CostBandwidth" : "100"
```

```

    },
    "Width" : "640",
    "Index" : "5",
    "Timebase" : "1/15360",
    "AvgFPS" : "15.0",
    "PixFmt" : "yuv420p",
    "Lang" : "und",
    "CodecLongName" : "H.264/AVC/MPEG-4 AVC/MPEG-4 part 10",
    "NumFrames" : "12",
    "Rotate" : "90",
    "Bitrate" : "512.701",
    "HasBFrames" : "2",
    "Profile" : "High",
    "StartTime" : "0.046029",
    "Dar" : "16:9",
    "CodecName" : "H264",
    "Duration" : "79.200000",
    "Fps" : "15.0",
    "CodecTag" : "0x31637661",
    "CodecTimeBase" : "1/30",
    "Level" : "31"
  } ],
  "AudioStreamList" : [ {
    "Timebase" : "1/44100",
    "Index" : "1",
    "SampleFmt" : "fltp",
    "ChannelLayout" : "stereo",
    "Lang" : "und",
    "Samplerate" : "44100",
    "CodecLongName" : "AAC (Advanced Audio Coding)",
    "Channels" : "2",
    "NumFrames" : "100",
    "Bitrate" : "76.356",
    "CodecTagString" : "mp4a",
    "StartTime" : "0.000000",
    "CodecName" : "aac",
    "Duration" : "79.203265",
    "CodecTag" : "0x61347064",
    "CodecTimeBase" : "1/44100"
  } ],
  "SubtitleStreamList" : [ {
    "Index" : "1",
    "Lang" : "und"
  } ]
},
"Format" : {
  "StartTime" : "0.000000",
  "NumPrograms" : "0",
  "Size" : "5872904",
  "NumStreams" : "2",
  "FormatLongName" : "QuickTime/MOV",
  "Duration" : "79.204000",
  "Bitrate" : "593.192",
  "FormatName" : "mov"
}

```

```
    }
  },
  "Description" : "This is description ****",
  "Size" : "5872904",
  "Width" : "640",
  "CoverURL" : "http://example-bucket1-****.oss-cn-hangzhou.aliyuncs.com//example-****.png",
  "SnapshotList" : [ {
    "Type" : "Single",
    "MediaWorkflowId" : "6cc3aa66d1cb4bb2adf14e726c0a****",
    "ActivityName" : "example-activity1-****",
    "Count" : "3",
    "MediaWorkflowName" : "example-workflow-****",
    "File" : {
      "State" : "Normal",
      "URL" : "http://example1-bucket1-****.oss-cn-hangzhou.aliyuncs.com//example111-****.png"
    }
  } ],
  "RunIdList" : [ "9343bd0e7bb54ae19228529908e5****" ],
  "Duration" : "79.204000",
  "Fps" : "15.0",
  "Title" : "kled.mp4",
  "Format" : "mov"
} ],
"NotExistFileURLs" : [ "null" ],
"RequestId" : "1C8A0AEB-4321-485B-B4CB-DA4E9E6C9B42"
}
```

Error codes

For a list of error codes, visit the [Error Center](#).

15. Media bucket management

15.1. BindInputBucket

Binds an input media bucket to the media library.

Usage notes

Before you call this operation to bind a media bucket, you must create a media bucket. For more information, see [Library settings](#).

QPS limit

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BindInputBucket	The operation that you want to perform. Set the value to BindInputBucket .
Bucket	String	Yes	example-bucket-****	The name of the input media bucket to be bound. The name can be up to 64 bytes in size. To obtain the media bucket name, you can log on to the ApsaraVideo Media Processing (MPS) console and choose Workflows > Media Buckets in the left-side navigation pane.  Note The bucket name can contain lowercase letters, digits, and hyphens (-), and cannot start or end with a hyphen (-).
RoleArn	String	No	acs:ram::174809843091****:role/exampleRoleName	The Alibaba Cloud Resource Name (ARN) of the role used for proxy authorization.

Parameter	Type	Required	Example	Description
Referer	String	No	http://www.example.com	The settings of Object Storage Service (OSS) hotlink protection. For more information, see Hotlink protection .

Response parameters

Parameter	Type	Example	Description
RequestId	String	4AEA0480-32F4-1656-92B3-F4D4CDE6BBB3	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=BindInputBucket
&Bucket=example-bucket-****
&RoleArn=acs:ram::174809843091****:role/exampleRoleName
&Referer=http://www.example.com
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<BindInputBucketResponse>
  <RequestId>4AEA0480-32F4-1656-92B3-F4D4CDE6BBB3</RequestId>
</BindInputBucketResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "4AEA0480-32F4-1656-92B3-F4D4CDE6BBB3"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

15.2. BindOutputBucket

Binds an output media bucket to the media library.

Usage notes

Before you call this operation to bind a media bucket, you must create a media bucket. For more information, see [Library settings](#).

QPS limit

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	BindOutputBucket	The operation that you want to perform. Set the value to BindOutputBucket .
Bucket	String	Yes	example-bucket-****	The name of the output media bucket to be bound. The name can be up to 64 bytes in size and can contain letters, digits, and hyphens (-). The name cannot start with a special character.

Response parameters

Parameter	Type	Example	Description
RequestId	String	D0F80646-90D4-402F-9D56-CEFEAA6BCC9B	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=BindOutputBucket
&Bucket=example-bucket-****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<BindOutputBucketResponse>
  <RequestId>D0F80646-90D4-402F-9D56-CEFEAA6BCC9B</RequestId>
</BindOutputBucketResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "D0F80646-90D4-402F-9D56-CEFEAA6BCC9B"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

15.3. ListAllMediaBucket

Queries all media buckets bound to the media library.

Usage notes

A maximum of 100 media buckets can be returned.

QPS limit

You can call this operation up to 10 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	ListAllMediaBucket	The operation that you want to perform. Set the value to ListAllMediaBucket .

Parameter	Type	Required	Example	Description
NextPageToken	String	No	P2Zqo1PLGhZdygo-ajSsjUX5zrBHCgXy6j4hEvv****	The token that is used to retrieve the next page of the query results. You do not need to specify this parameter in the first request. The response to the first request contains this parameter, which is added to the next request.
MaximumPageSize	Integer	No	10	The maximum number of media buckets to return. Valid values: 1 to 100. Default value: 50.

Response parameters

Parameter	Type	Example	Description
RequestId	String	79760D91-D3CF-4165-****-B7E2836EF62A	The ID of the request.
NextPageToken	String	P2Zqo1PLGhZdygo-ajSsjUX5zrBHCgXy6j4hEvv****	The identifier of the next page.
MediaBucketList	Array of MediaBucket		The list of returned media buckets.
MediaBucket			
Type	String	Input	The type of the media bucket. Valid values: - Input: input media bucket - Output: output media bucket
Bucket	String	example-bucket-****	The name of the media bucket.
Referer	String	http://www.example.com	The settings of Object Storage Service (OSS) hotlink protection. For more information, see Hotlink protection .

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=ListAllMediaBucket
&NextPageToken=P2Zqo1PLGhZdygo-ajSsjUX5zrBHCgXy6j4hEvv****
&MaximumPageSize=10
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<ListAllMediaBucketResponse>
  <RequestId>79760D91-D3CF-4165-****-B7E2836EF62A</RequestId>
  <NextPageToken>P2Zqo1PLGhZdygo-ajSsjUX5zrBHCgXy6j4hEvv****</NextPageToken>
  <MediaBucketList>
    <Type>Input</Type>
    <Bucket>example-bucket-****</Bucket>
    <Referer>http://www.example.com</Referer>
  </MediaBucketList>
</ListAllMediaBucketResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "79760D91-D3CF-4165-****-B7E2836EF62A",
  "NextPageToken" : "P2Zqo1PLGhZdygo-ajSsjUX5zrBHCgXy6j4hEvv****",
  "MediaBucketList" : [ {
    "Type" : "Input",
    "Bucket" : "example-bucket-****",
    "Referer" : "http://www.example.com"
  } ]
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

15.4. UnbindInputBucket

Unbinds an input media bucket from the media library.

Usage notes

You can call this operation to unbind an input media bucket from the media library based on the name of the output media bucket.

QPS limit

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UnbindInputBucket	The operation that you want to perform. Set the value to UnbindInputBucket .
Bucket	String	Yes	example-bucket-****	The name of the input media bucket to be unbound. To obtain the media bucket name, you can log on to the ApsaraVideo Media Processing (MPS) console and choose Workflows > Media Buckets in the left-side navigation pane. Alternatively, you can log on to the Object Storage Service (OSS) console and click My OSS Paths .

Response parameters

Parameter	Type	Example	Description
RequestId	String	4AEA0480-32F4-1656-92B3-F4D4CDE6BBB3	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=UnbindInputBucket
&Bucket=example-bucket-****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UnbindInputBucketResponse>
  <RequestId>4AEA0480-32F4-1656-92B3-F4D4CDE6BBB3</RequestId>
</UnbindInputBucketResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "4AEA0480-32F4-1656-92B3-F4D4CDE6BBB3"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

15.5. UnbindOutputBucket

Unbinds an output media bucket from the media library.

Usage notes

You can call this operation to unbind an output media bucket from the media library based on the name of the output media bucket.

QPS limit

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limits](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	UnbindOutputBucket	The operation that you want to perform. Set the value to UnbindOutputBucket .
Bucket	String	Yes	example-bucket-****	The name of the output media bucket to be unbound. To obtain the media bucket name, you can log on to the ApsaraVideo Media Processing (MPS) console and choose Workflows > Media Buckets in the left-side navigation pane. Alternatively, you can log on to the Object Storage Service (OSS) console and click My OSS Paths .

Response parameters

Parameter	Type	Example	Description
RequestId	String	4AEA0480-32F4-1656-92B3-F4D4CDE6BBB3	The ID of the request.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=UnbindOutputBucket
&Bucket=example-bucket-****
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<UnbindOutputBucketResponse>
  <RequestId>4AEA0480-32F4-1656-92B3-F4D4CDE6BBB3</RequestId>
</UnbindOutputBucketResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "4AEA0480-32F4-1656-92B3-F4D4CDE6BBB3"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

16.Media review

16.1. SubmitMediaCensorJob

Submits a content moderation job.

Usage notes

The job that you submit by calling this operation is run in asynchronous mode. The job is added to an ApsaraVideo Media Processing (MPS) pipeline and then scheduled, queued, and run. You can call the [QueryMediaCensorJobDetail](#) operation or configure an asynchronous notification to obtain the job result.

QPS limit

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limit](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	SubmitMediaCensorJob	The operation that you want to perform. Set the value to SubmitMediaCensorJob .

Parameter	Type	Required	Example	Description
Input	String	No	null	The Object Storage Service (OSS) URL of the video or audio file to be moderated. To view the OSS URL of the video or audio file, you can log on to the MPS console and choose Media Management > Media List in the left-side navigation pane. To moderate an image file, use the <code>CoverImage</code> parameter to specify the OSS URL of the image file. The value is a JSON object. For more information, see Input. • Bucket: the name of the OSS bucket that stores the input file. • Location: the OSS region. The OSS region must be the same as the region in which the MPS service is activated. • Object: the OSS object to be moderated.
CoverImages	String	No	<pre>[{"Bucket": "example-bucket-****", "Location": "oss-cn-shanghai", "Object": "example-****.jpeg"}]</pre>	The OSS URL of the image file that is used as the thumbnail. To view the OSS URL of the image file, you can log on to the MPS console and choose Media Management > Media List in the left-side navigation pane. You can specify up to five thumbnails in a JSON array. • Bucket: the name of the OSS bucket that stores the input file. • Location: the OSS region. The OSS region must be the same as the region in which the MPS service is activated. • Object: the OSS object to be moderated.
Title	String	No	Hello World	The title of the video. The value can be up to 64 bytes in size.
Description	String	No	example description	The description of the video. The value can be up to 128 bytes in size.

Parameter	Type	Required	Example	Description
Barrages	String	No	hello world	The live comments.
PipelineId	String	Yes	b22c173cced04565b1f38f1ecc39***	The ID of the MPS queue. This ID can be used to associate the job with a notification method. To view the ID of the MPS queue, you can log on to the MPS console and choose Global Settings > Pipelines in the left-side navigation pane. An empty string ("") indicates that the default MPS queue is used to run the job. By default, an MPS queue can process a maximum of 10 concurrent content moderation jobs. To increase the limit, submit a ticket.  Note MPS queues are automatically created by the system. For more information about how to query and update MPS queues, see UpdatePipeline.
				The video moderation configurations and the OSS URLs of the output snapshots. To view the OSS URLs of the output snapshots, you can log on to the MPS console and choose Media Management > Media List in the left-side navigation pane. The value is a JSON object. • OutputFile: ◦ Bucket: the name of the OSS bucket that stores the output snapshots. ◦ Location: the OSS region. The OSS region must be the same as the region in which the MPS service is activated. ◦ Object: the OSS object to be generated. In the value, {Count} indicates the sequence number of the frame snapshot. • StoreVideoTimeline: specifies whether to generate the {jobId}.video_timeline file. The file is stored in OSS. A value of true

Parameter	Type	Required	Example	Description
VideoCensorConfig	String	Yes	null	indicates that the file is generated. A value of false indicates that the file is not generated. If you do not specify this parameter, the file is not generated by default. For more information about the format of the file, see the sample {jobId}.video_timeline file in QueryMediaCensorJobDetail. • SaveType: the output mode. A value of abnormal indicates that snapshots are generated only for illegal frames. A value of all indicates that snapshots are generated for all frames. • Biztype: the moderation template. If you do not specify this parameter or set the value to common, the default template is used. You can submit a ticket to create a custom moderation template. Then, set this parameter to your user ID to use the custom moderation template. • Scenes: the moderation scenarios. You can specify the moderation scenarios that you want to use. If you do not specify this parameter, the terrorism and porn moderation scenarios are used by default. Valid values: ◦ porn: pornographic content detection ◦ terrorism: terrorist content detection ◦ ad: ad violation detection ◦ live: undesirable scene detection ◦ logo: special logo detection ◦ audio: audio anti-spam  Note If the input file contains audio tracks and the audio moderation scenario is specified, the audio tracks are moderated. If the input file does not contain audio tracks, you do not need to specify the audio moderation scenario.
UserData	String	No	UserDatatestid-001-****	The custom data. The value can be up to 128 bytes in size.

Parameter	Type	Required	Example	Description
ExternalUrl	String	No	http://www.example.com/video-****/test-****.mp4	The URL of the video.

Response parameters

Parameter	Type	Example	Description
RequestId	String	25818875-5F78-4A13-BEF6-D7393642CA58	The ID of the request.
JobId	String	88c6ca184c0e47098a5b665e2****	The ID of the content moderation job. We recommend that you keep this ID for subsequent operation calls.

Asynchronous notification parameters

Parameter	Type	Description
Type	String	The type of the message. The value is MediaCensor.
MediaCensorJobNotify	AliyunMediaCensorJobNotify	The notification content of the content moderation job.
UserData	String	The custom data.

Examples

Sample requests

```
http(s)://mts.cn-hangzhou.aliyuncs.com/?Action=SubmitMediaCensorJob
&Input={"Bucket":"example-bucket-****","Location":"oss-cn-shanghai","Object":"example-****.
flv"}
&CoverImages=[{"Bucket":"example-bucket-****","Location":"oss-cn-shanghai","Object":"exampl
e-****.jpeg"}]
&Title=Hello World
&Description=example description
&Barrages=hello world
&PipelineId=b22c173cced04565b1f38f1ecc39****
&VideoCensorConfig={"Scenes" : ["porn"], "OutputFile":{"Bucket": "example-001","Location":
"oss-cn-hangzhou","Object": "test/example-{Count}.jpg"},"SaveType" : "abnormal","BizType":"
common"}
&UserData=UserDatatestid-001-****
&ExternalUrl=http://www.example.com/video-****/test-****.mp4
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<SubmitMediaCensorJobResponse>
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
  <JobId>88c6ca184c0e47098a5b665e2****</JobId>
</SubmitMediaCensorJobResponse>
```

JSON format

```
HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "25818875-5F78-4A13-BEF6-D7393642CA58",
  "JobId" : "88c6ca184c0e47098a5b665e2****"
}
```

Error codes

For a list of error codes, visit the [API Error Center](#).

16.2. QueryMediaCensorJobDetail

Queries the results of a content moderation job.

Usage notes

In the content moderation results, the moderation results of the video are sorted in ascending order by time into a timeline. If the video is long, the content moderation results are paginated, and the first page is returned. You can call this operation to query the full moderation results of the video.

QPS limit

You can call this operation up to 100 times per second per account. If the number of calls per second exceeds the limit, throttling is triggered. As a result, your business may be affected. We recommend that you take note of the limit when you call this operation. For more information, see [QPS limit](#).

Debugging

OpenAPI Explorer automatically calculates the signature value. For your convenience, we recommend that you call this operation in OpenAPI Explorer. OpenAPI Explorer dynamically generates the sample code of the operation for different SDKs.

Request parameters

Parameter	Type	Required	Example	Description
Action	String	Yes	QueryMediaCensorJobDetail	The operation that you want to perform. Set the value to QueryMediaCensorJobDetail .
JobId	String	Yes	2288c6ca184c0e47098a5b665e2a12****	The ID of the content moderation job. You can obtain the job ID from the response parameters of the SubmitMediaCensorJob operation.
NextPageToken	String	No	ae0fd49c0840e14daf0d66a75b83***	The token that is used to retrieve the next page of the query results. You can leave this parameter empty when you call this operation to query the results of a content moderation job for the first time. The token of the next page is returned after you call this operation to query the results of a content moderation job for the first time.
MaximumPageSize	Long	No	30	The maximum number of entries to return on each page. - Default value: 30. - Valid values: 1 to 300.

Response parameters

Parameter	Type	Example	Description
RequestId	String	B42299E6-F71F-465F-8FE9-4FC2E3D3C2CA	The ID of the request.
MediaCensorJobDetail	Object		The results of the content moderation job.

Parameter	Type	Example	Description
CreationTime	String	2018-09-13T16:32:24Z	The time when the job was created.
FinishTime	String	2018-09-21	The time when the job was complete.
Suggestion	String	Block	The overall result of the job. Valid values: • Pass: The content passes the moderation. • Review: The content needs to be manually reviewed again. • Block: The content needs to be blocked. If the moderation result of any type of the moderated content is Review, the overall result is Review. If the moderation result of any type of the moderated content is Block, the overall result is Block.
CoverImageCensorResults	Array of CoverImageCensorResult		The moderation results of thumbnails.
CoverImageCensorResult			
Object	String	test/ai/censor/v2/vme-****.jpg	The Object Storage Service (OSS) object that is used as the video thumbnail.
Location	String	oss-cn-shanghai	The OSS region in which the video thumbnail resides.
Bucket	String	bucket-out-test-****	The OSS bucket that stores the video thumbnail.
Results	Array of Result		The moderation results.
Result			

Parameter	Type	Example	Description
Suggestion	String	Pass	The recommended subsequent operation. Valid values: • Pass: The content passes the moderation. • Review: The content needs to be manually reviewed again. • Block: The content needs to be blocked.
Label	String	Normal	The label of the moderation result. Valid values: • Normal: normal content • Spam: spam • Ad: ad • Politics: political content • Terrorism: terrorist content • Abuse: abuse • Flood: excessive junk content • Contraband: prohibited content • Meaningless: meaningless content • Porn: pornographic content • Sexy: sexy content • Outfit: special costume • Logo: special logo • Weapon: weapon • Politic: political content • Others: other content
Scene	String	Antispam	The moderation scenario. Valid values: • Antispam: text anti-spam • Porn: pornographic content detection • Terrorism: terrorist content detection
Rate	String	100	The score. Valid values: 0 to 100 .
State	String	Success	The state of the job.
TitleCensorResult	Object		The moderation result of the title.

Parameter	Type	Example	Description
Suggestion	String	Block	The recommended subsequent operation. Valid values: • Pass: The content passes the moderation. • Review: The content needs to be manually reviewed again. • Block: The content needs to be blocked.
Label	String	Meaningless	The label of the moderation result. Valid values: • Normal: normal content • Spam: spam • Ad: ad • Politics: political content • Terrorism: terrorist content • Abuse: abuse • Flood: excessive junk content • Contraband: prohibited content • Meaningless: meaningless content • Porn: pornographic content • Sexy: sexy content • Outfit: special costume • Logo: special logo • Weapon: weapon • Politic: political content • Others: other content
Scene	String	Antispam	The moderation scenario. Valid values: • Antispam: text anti-spam • Porn: pornographic content detection • Terrorism: terrorist content detection
Rate	String	99.91	The score.
Message	String	The resource operated cannot be found	The error message returned if the job fails. This parameter is not returned if the job is successful.
Input	Object		The information about the input file.

Parameter	Type	Example	Description
Object	String	test/ai/censor/test-****.mp4	The OSS object that is used as the input file.
Location	String	oss-cn-shanghai	The OSS region in which the input file resides.
Bucket	String	bucket-test-in-****	The OSS bucket that stores the input file.
BarrageCensorResult	Object		The moderation result of live comments.
Suggestion	String	Pass	The recommended subsequent operation. Valid values: • Pass: The content passes the moderation. • Review: The content needs to be manually reviewed again. • Block: The content needs to be blocked.
			The label of the moderation result. Valid values: • Valid values in the porn moderation scenario: ◦ normal: normal content ◦ sexy: sexy content ◦ porn: pornographic content • Valid values in the terrorism moderation scenario: ◦ normal: normal content ◦ bloody: bloody content ◦ explosion: explosion and smoke ◦ outfit: special costume ◦ logo: special logo ◦ weapon: weapon ◦ politics: political content ◦ violence: violence ◦ crowd: crowd ◦ parade: parade ◦ carcrash: car accident ◦ flag: flag ◦ location: landmark ◦ others: other content

Parameter	Type	Example	Description
Label	String	Normal	- Valid values in the ad moderation scenario: normal: normal content ad: other ads politics: political content in text porn: pornographic content in text abuse: abuse in text terrorism: terrorist content in text contraband: prohibited content in text spam: spam in text npx: illegal ad qrcode: QR code programCode: mini program code - Valid values in the live moderation scenario: normal: normal content meaningless: meaningless content, such as a black or white screen PIP: picture-in-picture smoking: smoking drivelive: live broadcasting in a running vehicle - Valid values in the logo moderation scenario: normal: normal content TV: controlled TV station logo trademark: trademark
Scene	String	Antispam	The moderation scenario. Valid values: Antispam: text anti-spam Porn: pornographic content detection Terrorism: terrorist content detection
Rate	String	99.91	The score.
DescCensorResult	Object		The moderation result of the description.

Parameter	Type	Example	Description
Suggestion	String	Review	The recommended subsequent operation. Valid values: • Pass: The content passes the moderation. • Review: The content needs to be manually reviewed again. • Block: The content needs to be blocked.
Label	String	Terrorism	The label of the moderation result. Valid values: • Normal: normal content • Spam: spam • Ad: ad • Politics: political content • Terrorism: terrorist content • Abuse: abuse • Flood: excessive junk content • Contraband: prohibited content • Meaningless: meaningless content • Porn: pornographic content • Sexy: sexy content • Outfit: special costume • Logo: special logo • Weapon: weapon • Politic: political content • Others: other content
Scene	String	Terrorism	The moderation scenario. Valid values: • Antispam: text anti-spam • Porn: pornographic content detection • Terrorism: terrorist content detection
Rate	String	100	The score.
VideoCensorConfig	Object		The video moderation configurations.
OutputFile	Object		The information about output snapshots.

Parameter	Type	Example	Description
Object	String	output{Count}.jpg	The OSS object that is generated as the output snapshot.  Note In the example, {Count} is a placeholder. The OSS objects that are generated as output snapshots are named <code>output00001-****.jpg</code>, <code>output00002-****.jpg</code>, and so on.
Location	String	oss-cn-shanghai	The OSS region in which the OSS bucket for storing the output snapshot resides.
Bucket	String	test-bucket-****	The OSS bucket that stores the output snapshot.
VideoCensor	String	true	Indicates whether the video content needs to be moderated. Default value: true. Valid values: true: The video content needs to be moderated. false: The video content does not need to be moderated.
BizType	String	common	The custom business type. Default value: common.
JobId	String	f8f166eea7a44e9bb0a4aecf9543****	The ID of the content moderation job.
UserData	String	example userdata****	The custom data.
Code	String	InvalidParameter.ResourceNotFound	The error code returned if the job fails. This parameter is not returned if the job is successful.
VensorCensorResult	Object		The moderation results of the video.

Parameter	Type	Example	Description
VideoTimelines	Array of VideoTimeline		The moderation results that are sorted in ascending order by time.
VideoTimeline			
Timestamp	String	00:02:59.999	The position in the video. Format: <code>hh:mm:ss[.SSS]</code> .
Object	String	output{Count}.jpg	The OSS object that is generated as the output snapshot. Note In the example, {Count} is a placeholder. The OSS objects that are generated as output snapshots are named <code>output00001-****.jpg</code> , <code>output00002-****.jpg</code> , and so on.
CensorResults	Array of CensorResult		The moderation results that include information such as labels and scores.
CensorResult			
Suggestion	String	Block	The recommended subsequent operation. Valid values: Pass: The content passes the moderation. Review: The content needs to be manually reviewed again. Block: The content needs to be blocked.

Parameter	Type	Example	Description
Label	String	Flood	The label of the moderation result. Valid values: • Normal: normal content • Spam: spam • Ad: ad • Politics: political content • Terrorism: terrorist content • Abuse: abuse • Flood: excessive junk content • Contraband: prohibited content • Meaningless: meaningless content • Porn: pornographic content • Sexy: sexy content • Outfit: special costume • Logo: special logo • Weapon: weapon • Politic: political content • Others: other content
Scene	String	Porn	The moderation scenario. Valid values: • Antispam: text anti-spam • Porn: pornographic content detection • Terrorism: terrorist content detection
Rate	String	99.99	The score.
NextPageToken	String	ea04afcca7cd4e80b9ece8fbb251****	The token that is used to retrieve the next page of the query results.
CensorResults	Array of CensorResult		A collection of the moderation results. The information includes the summary about various scenarios such as Porn and Terrorism.
CensorResult			

Parameter	Type	Example	Description
Suggestion	String	Review	The recommended subsequent operation. Valid values: • Pass: The content passes the moderation. • Review: The content needs to be manually reviewed again. • Block: The content needs to be blocked.
Label	String	Meaningless	The label of the moderation result. Valid values: • Normal: normal content • Spam: spam • Ad: ad • Politics: political content • Terrorism: terrorist content • Abuse: abuse • Flood: excessive junk content • Contraband: prohibited content • Meaningless: meaningless content • Porn: pornographic content • Sexy: sexy content • Outfit: special costume • Logo: special logo • Weapon: weapon • Politic: political content • Others: other content
Scene	String	Terrorism	The moderation scenario. Valid values: • Antispam: text anti-spam • Porn: pornographic content detection • Terrorism: terrorist content detection
Rate	String	100	The score.
PipelineId	String	c5b30b7c0d0e4a0abde1d5f9e751****	The ID of the MPS queue that is used to run the job.

Examples

Sample requests

```
http(s)://mts.cn-shanghai.aliyuncs.com/?Action=QueryMediaCensorJobDetail
&ResourceOwnerId=1
&JobId=2288c6ca184c0e47098a5b665e2a12****
&NextPageToken=ae0fd49c0840e14daf0d66a75b83****
&MaximumPageSize=30
&<Common request parameters>
```

Sample success responses

XML format

```
HTTP/1.1 200 OK
Content-Type:application/xml
<QueryMediaCensorJobDetailResponse>
  <RequestId>B42299E6-F71F-465F-8FE9-4FC2E3D3C2CA</RequestId>
  <MediaCensorJobDetail>
    <CreationTime>2018-09-13T16:32:24Z</CreationTime>
    <FinishTime>2018-09-21</FinishTime>
    <Suggestion>Block</Suggestion>
    <CoverImageCensorResults>
      <Object>test/ai/censor/v2/vme-****.jpg</Object>
      <Location>oss-cn-shanghai</Location>
      <Bucket>bucket-out-test-****</Bucket>
      <Results>
        <Suggestion>Pass</Suggestion>
        <Label>Normal</Label>
        <Scene>Antispam</Scene>
        <Rate>100</Rate>
      </Results>
    </CoverImageCensorResults>
    <State>Success</State>
    <TitleCensorResult>
      <Suggestion>Block</Suggestion>
      <Label>Meaningless</Label>
      <Scene>Antispam</Scene>
      <Rate>99.91</Rate>
    </TitleCensorResult>
    <Message>The resource operated cannot be found</Message>
    <Input>
      <Object>test/ai/censor/test-****.mp4</Object>
      <Location>oss-cn-shanghai</Location>
      <Bucket>bucket-test-in-****</Bucket>
    </Input>
    <BarrageCensorResult>
      <Suggestion>Pass</Suggestion>
      <Label>Normal</Label>
      <Scene>Antispam</Scene>
      <Rate>99.91</Rate>
    </BarrageCensorResult>
    <DescCensorResult>
      <Suggestion>Review</Suggestion>
      <Label>Terrorism</Label>
      <Scene>Terrorism</Scene>
      <Rate>100</Rate>
```

```

</DescCensorResult>
<VideoCensorConfig>
  <OutputFile>
    <Object>output{Count}.jpg</Object>
    <Location>oss-cn-shanghai</Location>
    <Bucket>test-bucket-****</Bucket>
  </OutputFile>
  <VideoCensor>true</VideoCensor>
  <BizType>common</BizType>
</VideoCensorConfig>
<JobId>f8f166eea7a44e9bb0a4aecf9543****</JobId>
<UserData>example userdata ****</UserData>
<Code>InvalidParameter.ResourceNotFound</Code>
<VensorCensorResult>
  <VideoTimelines>
    <Timestamp>00:02:59.999</Timestamp>
    <Object>output{Count}.jpg</Object>
    <CensorResults>
      <Suggestion>Block</Suggestion>
      <Label>Flood</Label>
      <Scene>Porn</Scene>
      <Rate>99.99</Rate>
    </CensorResults>
  </VideoTimelines>
  <NextPageToken>ea04afcca7cd4e80b9ece8fbb251****</NextPageToken>
  <CensorResults>
    <Suggestion>Review</Suggestion>
    <Label>Meaningless</Label>
    <Scene>Terrorism</Scene>
    <Rate>100</Rate>
  </CensorResults>
</VensorCensorResult>
<PipelineId>c5b30b7c0d0e4a0abde1d5f9e751****</PipelineId>
</MediaCensorJobDetail>
</QueryMediaCensorJobDetailResponse>

```

JSON format

```

HTTP/1.1 200 OK
Content-Type:application/json
{
  "RequestId" : "B42299E6-F71F-465F-8FE9-4FC2E3D3C2CA",
  "MediaCensorJobDetail" : {
    "CreationTime" : "2018-09-13T16:32:24Z",
    "FinishTime" : "2018-09-21",
    "Suggestion" : "Block",
    "CoverImageCensorResults" : [ {
      "Object" : "test/ai/censor/v2/vme-****.jpg",
      "Location" : "oss-cn-shanghai",
      "Bucket" : "bucket-out-test-****",
      "Results" : [ {
        "Suggestion" : "Pass",
        "Label" : "Normal",
        "Scene" : "Normal",
        "Rate" : 100
      } ]
    } ]
  }
}

```

```

        "Scene" : "Antispam",
        "Rate" : "100"
    } ]
} ],
"State" : "Success",
"TitleCensorResult" : {
    "Suggestion" : "Block",
    "Label" : "Meaningless",
    "Scene" : "Antispam",
    "Rate" : "99.91"
},
"Message" : "The resource operated cannot be found",
"Input" : {
    "Object" : "test/ai/censor/test-****.mp4",
    "Location" : "oss-cn-shanghai",
    "Bucket" : "bucket-test-in-****"
},
"BarrageCensorResult" : {
    "Suggestion" : "Pass",
    "Label" : "Normal",
    "Scene" : "Antispam",
    "Rate" : "99.91"
},
"DescCensorResult" : {
    "Suggestion" : "Review",
    "Label" : "Terrorism",
    "Scene" : "Terrorism",
    "Rate" : "100"
},
"VideoCensorConfig" : {
    "OutputFile" : {
        "Object" : "output{Count}.jpg",
        "Location" : "oss-cn-shanghai",
        "Bucket" : "test-bucket-****"
    },
    "VideoCensor" : "true",
    "BizType" : "common"
},
"JobId" : "f8f166eea7a44e9bb0a4aecf9543****",
"UserData" : "example userdata ****",
"Code" : "InvalidParameter.ResourceNotFound",
"VensorCensorResult" : {
    "VideoTimelines" : [ {
        "Timestamp" : "00:02:59.999",
        "Object" : "output{Count}.jpg",
        "CensorResults" : [ {
            "Suggestion" : "Block",
            "Label" : "Flood",
            "Scene" : "Porn",
            "Rate" : "99.99"
        } ]
    } ]
} ],
"NextPageToken" : "ea04afcca7cd4e80b9ece8fbb251****",
"CensorResults" : [ {
    "Suggestion" : "Review"

```

```

        "suggestion": "Review",
        "Label": "Meaningless",
        "Scene": "Terrorism",
        "Rate": "100"
    } ]
},
"PipelineId": "c5b30b7c0d0e4a0abde1d5f9e751****"
}
}

```

Additional description of sample responses

// Sample {jobId}.video_timeline file
 // After the moderation is complete, the system generates a JSON file named {jobId}.video_timeline and stores the file in the OSS bucket specified by the CensorConfig.OutputFile parameter of the SubmitMediaCensorJob operation. Sample content of the file:

```

[
  {
    "CensorResults": [
      {
        "Label": "ad",
        "Rate": "99.9100000000",
        "Scene": "ad"
      }
    ],
    "Object": "gaoshen/test8/example-00001.jpg",
    "Timestamp": "00:00:00.005"
  },
  {
    "CensorResults": [
      {
        "Label": "ad",
        "Rate": "99.9100000000",
        "Scene": "ad"
      }
    ],
    "Object": "gaoshen/test8/example-00002.jpg",
    "Timestamp": "00:00:05.005"
  },
  {
    "CensorResults": [
      {
        "Label": "ad",
        "Rate": "99.9100000000",
        "Scene": "ad"
      }
    ],
    "Object": "gaoshen/test8/example-00003.jpg",
    "Timestamp": "00:00:10.005"
  },
  {
    "CensorResults": [
      {
        "Label": "ad",

```

```

        "Rate": "99.9100000000",
        "Scene": "ad"
    }
},
"Object": "gaoshen/test8/example-00004.jpg",
"Timestamp": "00:00:15.005"
},
{
    "CensorResults": [
        {
            "Label": "politics",
            "Rate": "82.6500000000",
            "Scene": "terrorism",
            "SfaceData": [
                {
                    "faces": [
                        {
                            "id": "AliFace_0006942",
                            "name": "Name",
                            "rate": 82.65
                        }
                    ],
                    "h": 51,
                    "w": 40,
                    "x": 744,
                    "y": 121
                }
            ]
        }
    ],
    "Object": "gaoshen/test8/example-00008.jpg",
    "Timestamp": "00:00:35.005"
},
{
    "CensorResults": [
        {
            "Label": "politics",
            "Rate": "93.6800000000",
            "Scene": "terrorism",
            "SfaceData": [
                {
                    "faces": [
                        {
                            "id": "AliFace_0006942",
                            "name": "Name",
                            "rate": 93.68
                        }
                    ],
                    "h": 119,
                    "w": 94,
                    "x": 662,
                    "y": 94
                }
            ]
        }
    ]
}

```

```

    },
    ],
    "Object": "gaoshen/test8/example-00011.jpg",
    "Timestamp": "00:00:50.005"
  },
  {
    "CensorResults": [
      {
        "Label": "ad",
        "Rate": "99.9100000000",
        "Scene": "ad"
      }
    ],
    "Object": "gaoshen/test8/example-00011.jpg",
    "Timestamp": "00:00:50.005"
  },
  {
    "CensorResults": [
      {
        "Label": "politics",
        "Rate": "89.2900000000",
        "Scene": "terrorism",
        "SfaceData": [
          {
            "faces": [
              {
                "id": "AliFace_0006942",
                "name": "Name",
                "rate": 89.29
              }
            ],
            "h": 112,
            "w": 98,
            "x": 665,
            "y": 138
          }
        ]
      }
    ],
    "Object": "gaoshen/test8/example-00012.jpg",
    "Timestamp": "00:00:55.005"
  },
  {
    "CensorResults": [
      {
        "Label": "ad",
        "Rate": "99.9100000000",
        "Scene": "ad"
      }
    ],
    "Object": "gaoshen/test8/example-00012.jpg",
    "Timestamp": "00:00:55.005"
  },
  {
    "CensorResults": [

```



```

    "CensorResults": [
      {
        "Label": "politics",
        "Rate": "92.1400000000",
        "Scene": "terrorism",
        "SfaceData": [
          {
            "faces": [
              {
                "id": "AliFace_0007536",
                "name": "Name",
                "rate": 92.14
              }
            ],
            "h": 117,
            "w": 91,
            "x": 665,
            "y": 79
          }
        ]
      },
      {
        "Object": "gaoshen/test8/example-00013.jpg",
        "Timestamp": "00:01:00.005"
      }
    ],
    {
      "CensorResults": [
        {
          "Label": "ad",
          "Rate": "99.9100000000",
          "Scene": "ad"
        }
      ],
      {
        "Object": "gaoshen/test8/example-00013.jpg",
        "Timestamp": "00:01:00.005"
      }
    },
    {
      "CensorResults": [
        {
          "Label": "politics",
          "Rate": "93.0400000000",
          "Scene": "terrorism",
          "SfaceData": [
            {
              "faces": [
                {
                  "id": "AliFace_0002750",
                  "name": "Name",
                  "rate": 93.04
                }
              ],
              "h": 120,
              "w": 93,
              "x": 673,
              "y": 79
            }
          ]
        }
      ]
    }
  ]
}

```

```
        }
      ]
    }
  ],
  "Object": "gaoshen/test8/example-00014.jpg",
  "Timestamp": "00:01:05.005"
}
]
```

Error codes

For a list of error codes, visit the [API Error Center](#).

17.Appendixes

17.1. Parameter details

This topic describes the details of some parameters used in the ApsaraVideo Media Processing (MPS) API.

Input

 **Note** The parameters in this section are involved when you call the SubmitJobs operation.

Parameter	Type	Required	Description
Bucket	String	Yes	The Object Storage Service (OSS) bucket that stores the input file. You must grant the read permissions on the bucket to MPS on the Access Control page in the OSS console. For more information, see the descriptions related to buckets in Terms .
Location	String	Yes	The OSS region in which the OSS bucket resides. For more information, see the description of the term region in Terms .

Parameter	Type	Required	Description
Object	String	Yes	The OSS object that is used as the input file. The URL of the OSS object must comply with RFC 2396 and be encoded in UTF-8, with reserved characters being percent-encoded. For more information about OSS objects, see the description of the term object in Terms.

Output

 **Note** The parameters in this section and their extended parameters in some of the following sections are involved when you call the SubmitJobs operation.

Parameter	Type	Required	Description
			The name of the OSS object that is used as the output file. - The URL of the OSS object must comply with RFC 2396 and be encoded in UTF-8, with reserved characters being percent-encoded. - Example: %7BObjectPrefix%7D %7BFileName%7Dtest .mp4. In this case, if the input file of a transcoding job is a/b/c.flv, the output file of the job is a/b/ctest.mp4. - The placeholders in the name of the output file will be

Parameter	Type	Required	Description
OutputObject	String	Yes	replaced with the actual values used in business operations. - Placeholders supported by workflows: {ObjectPrefix}, which indicates the prefix of the input file name. {FileName}, which indicates the input file name. {ExtName}, which indicates the file name extension of the input file. {DestMd5}, which indicates the MD5 hash value of the output file. {DestAvgBitrate}, which indicates the average bitrate of the output file. {RunId}, which indicates the ID of the execution instance. {MediaId}, which indicates the ID of the input file. - Placeholders supported by other elements: {ObjectPrefix}, {FileName}, {ExtName}, {DestMd5}, {DestAvgBitrate}. - Rules on file name extensions: - Workflows: MPS automatically adds the file name extension to the end of the value of the OutputObject parameters based on the container format of the transcoding template.

Parameter	Type	Required	Description
			- Other elements: In most cases, MPS does not automatically add a file name extension. However, if the container format is M3U8, MPS adds the file name extension .m3u8 to the name of the playlist. If the playlist has corresponding segment files, MPS adds a five-digit integer that starts from 00001 as the file name suffix, - adds a hyphen (-) before the suffix, and adds the file name extension .ts to the end of each segment file. - For example, if the playlist name is filename.m3u8, the name of the first output segment file is filename-00001.ts.
TemplateId	String	Yes	The ID of the transcoding template. You can specify a custom or preset transcoding template.
Container	String	No	If you set this parameter, the parameter setting overwrites the setting of the corresponding parameter in the transcoding template. For more information, see the Container section in this topic.

Parameter	Type	Required	Description
Video	String	No	If you set this parameter, the parameter setting overwrites the setting of the corresponding parameter in the transcoding template. For more information, see the Video section in this topic.
Audio	String	No	If you set this parameter, the parameter setting overwrites the setting of the corresponding parameter in the transcoding template. For more information, see the Audio section in this topic.
AudioStreamMap	String	No	The sequence number of the audio stream. • Format: 0:a:{Sequence number}. Example: 0:a:0. • The sequence number is the index of the audio stream in the list and starts from 0. • If you do not specify a sequence number, the default audio stream is used.
MuxConfig	String	No	If you set this parameter, the parameter setting overwrites the setting of the corresponding parameter in the transcoding template. For more information, see the MuxConfig section in this topic.

Parameter	Type	Required	Description
TransConfig	String	No	The configuration of the transcoding process. If you set this parameter, the parameter setting overwrites the setting of the corresponding parameter in the transcoding template. For more information, see the TransConfig section in this topic.
Clip	String	No	The clip. The value must be a JSON object. For more information, see the Clip section in this topic. Example: <pre>{ "TimeSpan": { "Seek": "123.45", "Duration": "3.45" } }</pre>
WaterMarks	WaterMark[]	No	The watermarks. The value must be a JSON array. For more information, see the WaterMarks section in this topic. - The JSON array can contain up to four JSON objects, which means that a job supports up to four watermarks in the job output. - Example: <pre>[{"InputFile":{"Bucket":"example-bucket", "Location":"oss-cn-hangzhou", "Object":"example-logo.png"}, "WaterMarkTemplateId": "88c6ca184c0e47098a5b665e2a126797"}]</pre>

Parameter	Type	Required	Description
MergeList	String	No	The configuration of clip merging. You can merge up to four clips. For more information, see the MergeList section in this topic. - Example of using a single clip: <pre>[{"MergeURL":"http://exampleBucket****.oss-cn-hangzhou.aliyuncs.com/tail_comm_01.mp4"}]</pre> - Example of merging two clips: <pre>[{"MergeURL":"http://exampleBucket****m.oss-cn-hangzhou.aliyuncs.com/tail_comm_01.mp4","Start":"1","Duration":"20"}, {"MergeURL":"http://exampleBucket****.oss-cn-hangzhou.aliyuncs.com/tail_comm_02.mp4","Start":"5.4","Duration":"10.2"}]</pre>

Parameter	Type	Required	Description
MergeConfigUrl	String	No	You can specify only one of the MergeList and MergeConfigUrl parameters. - The file that you specify for the MergeConfigUrl parameter can contain up to 50 merged clips. - When you set the MergeConfigUrl parameter, specify the URL of the configuration file for clip merging. - Example: <code>http://exampleBucket****.oss-cn-hangzhou.aliyuncs.com/mergeConfigfile</code>. - Make sure that the configuration file is stored as an object in OSS and MPS can access the OSS object. For more information, see the MergeList section in this topic. - Example of a configuration file: <pre>{ "MergeList": [{ "MergeURL": "http://exampleBucket****.oss-cn-hangzhou.aliyuncs.com/tail_comm.mp4"}]}</pre>.
M3U8NonStandardSupport	String	No	The non-standard support of the M3U8 format. For more information, see the M3U8NonStandardSupport section in this topic. Example: <code>{"TS": {"Md5Support": true, "SizeSupport": true}}</code>.

Parameter	Type	Required	Description
Encryption	String	No	The encryption configuration. An encrypted file is generated in the M3U8 format. • Example: <pre>{ "Type": "hls-aes-128", "Key": "ZW5jcnlwdGlvbmtleTEyMw", "KeyType": "Base64", "KeyUri": "aHR0cDovL2FsaX11bi5jb20vZG9jdW11bnQvaGxzMTI4LmtleQ==" }</pre>. • For more information, see the Encryption section in this topic.
SubtitleConfig	String	No	The subtitle configuration. The value must be a JSON object. • For more information, see the SubtitleConfig section in this topic. • Example: <pre>{ "ExtSubtitleList": [{"Input": {"Bucket": "example-bucket-****", "Location": "oss-cn-hangzhou", "Object": "example.srt"}, "CharEnc": "UTF-8"}] }</pre>.

Parameter	Type	Required	Description
OpeningList	String	No	The opening parts. The value must be a JSON object. - For more information, see the Opening section in this topic. - Example: <pre>[{"OpenUrl": "http://exampleBucket****.oss-cn-hangzhou.aliyuncs.com/opening.flv", "Start": "1", "Width": "1920", "Height": "1080"}]</pre>
TailSlateList	String	No	The ending parts. The value must be a JSON object. - For more information, see the TailSlate section in this topic. - Example: <pre>[{"TailUrl": "http://exampleBucket****.oss-cn-hangzhou.aliyuncs.com/tail.flv", "Start": "1", "BlendDuration": "2", "Width": "1920", "Height": "1080", "IsMergeAudio": false, "BgColor": "White"}]</pre>
DeWatermark	String	No	The configuration of watermark blurring. The value must be a JSON object. For more information, see the DeWatermark section in this topic.

Parameter	Type	Required	Description
Amix	String	No	The mixing configuration. This parameter is suitable for scenarios where background music is added or two audio tracks in a video are merged. For more information, see the Amix section in this topic. If you specify this parameter, you must also specify the AudioStreamMap parameter to select the audio tracks of the input video. The value of this parameter must be a JSON object. Example: <pre>{ "AmixURL": "[{"AmixURL": "http://exampleBucket****.oss-cn-hangzhou.aliyuncs.com/tail.flv", "Start": "1", "Duration": "2"}]" }</pre>
UserData	String	No	The custom data, which can be up to 1,024 bytes in size.
Priority	String	No	The priority of the job in the MPS queue to which the job is added. - Valid values: [1, 10]. - A value of 10 indicates the highest priority. - Default value: 6.
Rotate	String	No	The video rotation angle in the clockwise direction. Valid values: [0, 360).

Container

Parameter	Type	Required	Description
Format	String	No	The container format. • Default value: mp4. • Video transcoding supports the FLV, MP4, HLS (M3U8 + TS), and MPEG-DASH (MPD + fMP4) formats. • Audio transcoding supports the MP3, MP4, OGG, FLAC, and M4A formats. • Supported image formats are GIF and WebP. • If the container format is GIF, the video codec must be set to GIF. • If the container format is WebP, the video codec must be set to WebP. • If the container format is FLV, the video codec cannot be set to H.265.

Video

Parameter	Type	Required	Description	Remarks
Codec	String	No	The video codec.	Valid values: H.264, H.265, GIF, and WEBP. Default value: H.264.

Parameter	Type	Required	Description	Remarks
Profile	String	No	The encoding profile.	Valid values: baseline, main, and high. Default value: high. • baseline: suitable for mobile devices. • main: suitable for standard-definition devices. • high: suitable for high-definition devices. If multiple definitions exist, we recommend that you set this parameter to baseline for the lowest definition to ensure normal playback on low-end devices. Set this parameter to main or high for other definitions.  Note This parameter is valid only when the Codec parameter is set to H.264.
Bitrate	String	No	The bitrate of the output video.	• Valid values: [10, 50000]. • Unit: Kbit/s.

Parameter	Type	Required	Description	Remarks
Crf	String	No	The constant rate factor.	- Valid values: [0, 51]. - Default value when the Codec parameter is set to H.264: 23. Default value when the Codec parameter is set to H.265: 26.  Note If you specify this parameter, the setting of the Bitrate parameter becomes invalid.
Width	String	No	The width.	- Default value: the original width of the video. - Valid values: [128, 4096]. - Unit: pixel.
Height	String	No	The height.	- Default value: the original height of the video. - Valid values: [128, 4096]. - Unit: pixel.

Parameter	Type	Required	Description	Remarks
Fps	String	No	The frame rate.	• Default value: the frame rate of the input file. • The value is 60 if the frame rate of the input file exceeds 60. • Valid values: (0,60]. • Unit: frames per second.
Gop	String	No	The group of pictures (GOP) size. The GOP size can be the maximum interval of keyframes or the maximum number of frames in a frame group.	If you specify the maximum interval of keyframes, the unit (s) is required. • Default value: 10. • If you specify the maximum number of frames, no unit is required. • Value values: [1,100000].
Preset	String	No	The preset video algorithm.	Valid values: veryfast, fast, medium, slow, and slower. Default value: medium.  Note This parameter is valid only when the Codec parameter is set to H.264.
ScanMode	String	No	The scan mode.	Valid values: interlaced and progressive.

Parameter	Type	Required	Description	Remarks
Bufsize	String	No	The buffer size.	- Valid values: [1000, 128000]. - Default value: 6000. - Unit: KB.
Maxrate	String	No	The maximum bitrate of the output video.	Valid values: [10, 50000]. Unit: Kbit/s.
PixFmt	String	No	The pixel format for video color encoding.	Valid values: standard pixel formats such as yuv420p and yuvj420p. The default pixel format can be yuv420p or the original color format.
Remove	String	No	Specifies whether to delete the video stream.	- true: deletes the video stream. - false: retains the video stream. - Default value: false.
Crop	String	No	The method of video cropping.	Valid values: - border: automatically detects and removes borders. - A value in the format of width:height:left:top specifies to crop the video image based on the custom setting. Example: 1280:800:0:140.

Parameter	Type	Required	Description	Remarks
Pad	String	No	The black borders to be added to the video.	Format: width:height:left: top. Example: 1280:800:0:140.
LongShortMode	String	No	Specifies whether to enable the auto-rotate screen feature.	- The image width of the output video corresponds to the long side of the mezzanine file or the image height of the mezzanine file in portrait mode. - The image height of the output video corresponds to the short side of the mezzanine file or the image width of the mezzanine file in portrait mode. - true: enables the auto-rotate screen feature. - false: disables the auto-rotate screen feature. Default value: false.

The following table describes the supported combinations of container formats, video codecs, and audio codecs.

 **Note** If the video is in the HLS format, pay attention to the audio and video codecs. If you set the video codec to H.264, set the audio codec to AAC. Otherwise, the transcoding is successful but the output file cannot be played.

Container	Audio codec	Video codec
FLV	AAC and MP3	H.264

Container	Audio codec	Video codec
MP4	AAC and MP3	H.264 and H.265
TS	AAC and MP3	H.264 and H.265
M3U8	AAC and MP3	H.264 and H.265
GIF	N/A	GIF

The following table describes the video stream parameters that are supported by different video codecs. A value of Y indicates that a parameter is supported. A value of N indicates that a parameter is not supported.

Video/Codec	H.264	H.265	GIF
Profile	Y	N	N
Bitrate	Y	Y	N
Crf	Y	Y	N
Width	Y	Y	Y
Height	Y	Y	Y
Fps	Y	Y	Y
Gop	Y	Y	N
Preset	Y	N	N
ScanMode	Y	Y	Y
Bufsize	Y	Y	N
Maxrate	Y	Y	N
PixFmt	Y	Y	bgr8

Audio

Parameter	Type	Required	Description
Codec	String	No	The audio codec. Valid values: AAC, MP3, VORBIS, and FLAC. Default value: AAC.

Parameter	Type	Required	Description
Profile	String	No	The codec profile of the audio. Valid values when the audio codec is set to AAC: aac_low, aac_he, aac_he_v2, aac_ld, and aac_eld.
Samplerate	String	No	The sampling rate. • Default value: 44100. • Valid values: 22050, 32000, 44100, 48000, and 96000. • Unit: Hz.  Note • If the container format for the video files is FLV and the audio codec is MP3, this parameter cannot be set to 32000, 48000, or 96000. • If the audio codec is MP3, this parameter cannot be set to 96000.
Bitrate	String	No	The audio bitrate of the output file. • Valid values: [8,1000]. • Unit: Kbit/s. • Default value: 128.

Parameter	Type	Required	Description
Channels	String	No	The number of sound channels. Default value: 2.  Note If the Codec parameter is set to MP3, this parameter can be set to 1 or 2. If the Codec parameter is set to AAC, this parameter can be set to 1, 2, 4, 5, 6, or 8.
Remove	String	No	Specifies whether to delete the audio stream. • true: deletes the audio stream. • false: retains the audio stream. • Default value: false.
Volume	String	No	The volume configuration. For more information, see the Volume section in this section.

The following table describes the supported combinations of audio codecs and container formats.

Container	Audio codec
MP3	MP3
MP4	AAC
OGG	VORBIS and FLAC
FLAC	FLAC

Volume

Parameter	Type	Required	Description
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Parameter	Type	Required	Description
Method	String	No	The volume adjustment method. Valid values: auto, dynamic, and linear.
IntegratedLoudnessTarget	String	No	The new volume. - Valid values: [-70,-5]. - This parameter is valid only when the Method parameter is set to dynamic. - Default value: -6.
TruePeak	String	No	The peak volume. - Valid values: [-9, 0]. - This parameter is valid only when the Method parameter is set to dynamic. - Default value: -1.
LoudnessRangeTarget	String	No	The range of the volume. - Valid values: [1, 20]. - This parameter is valid only when the Method parameter is set to dynamic. - Default value: 8.

MuxConfig

Parameter	Type	Required	Description
Segment	String	No	The segment configuration. The value must be a JSON object. - For more information, see the Segment section in this topic. - Example: <code>{"Duration": "34"}</code>.

Segment

Parameter	Type	Required	Description
Duration	String	No	The segment length. • The value must be an integer. • Unit: seconds. • Valid values: [1, 60]. Default value: 10.
ForceSegTime	String	No	Specifies the points in time at which you want to segment the media file. You can specify up to 10 points in time. Separate the points in time with commas (,). • Each point in time can be accurate to three decimal places. • Unit: seconds. • For example, if you set this parameter to 23,55,60, the media file will be segmented at the 23rd, 55th, and 60th seconds.

TransConfig

Parameter	Type	Required	Description
TransMode	String	No	The transcoding mode. • Default value: onepass. • Valid values: onepass, twopass, and CBR.
AdjDarMethod	String	No	The method of resolution adjustment. • Default value: none. • Valid values: rescale, crop, pad, and none.

Parameter	Type	Required	Description
IsCheckReso	String	No	Specifies whether to check the resolution. • If this parameter is specified and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, the resolution of the input file is retained after transcoding. true: checks the resolution. • false: does not check the resolution. • Default value: false.
IsCheckResoFail	String	No	Specifies whether to check the resolution. • If this parameter is specified and the system detects that the resolution of the output file is higher than that of the input file based on the width or height, an error that indicates a transcoding failure is returned. • true: checks the resolution. • false: does not check the resolution. • Default value: false.

Parameter	Type	Required	Description
IsCheckVideoBitrate	String	No	Specifies whether to check the video bitrate. • If this parameter is specified and the system detects that the video bitrate of the output file is greater than that of the input file, the video bitrate of the input file is retained after transcoding. • true: checks the video bitrate. • false: does not check the video bitrate. • Default value: false.
IsCheckAudioBitrate	String	No	Specifies whether to check the audio bitrate. • If this parameter is specified and the system detects that the audio bitrate of the output file is greater than that of the input file, the audio bitrate of the input file is retained after transcoding. • true: checks the audio bitrate. • false: does not check the audio bitrate. • Default value: false.

Parameter	Type	Required	Description
IsCheckAudioBitrateFail	String	No	Specifies whether to check the audio bitrate. If the bitrate of the output audio is greater than that of the input audio, the input file is not transcoded. • true: checks the audio bitrate. • false: does not check the audio bitrate. • Default value: false. • This parameter takes precedence over the IsCheckAudioBitrate parameter.
IsCheckVideoBitrateFail	String	No	Specifies whether to check the video bitrate. If the bitrate of the output audio is greater than that of the input audio, the input file is not transcoded. • true: checks the video bitrate. • false: does not check the video bitrate. • Default value: false. • This parameter takes precedence over the IsCheckVideoBitrate parameter.

Clip

Parameter	Type	Required	Description
TimeSpan	String	No	The time span of the clip to be captured from the original file. For more information, see TimeSpan.

Parameter	Type	Required	Description
ConfigToClipFirstPart	Boolean	No	Specifies whether to crop the first part of the file into a clip before clip merging. • false: merges the clips and then crops the merged clips. This is the default value. • true: crops the first part of the file into a clip and then merges the clips.

TimeSpan

Parameter	Type	Required	Description
Seek	String	No	The start point in time of the clip. • Format 1: hh:mm:ss[.SSS]. • Valid values: [00:00:00.000, 23:59:59.999]. • Format 2: sssss[.SSS]. • Valid values: [0.000, 86399.999]. Examples: 01:59:59.999 and 32000.23.
Duration	String	No	The duration of the clip. • Format 1: hh:mm:ss[.SSS]. • Valid values: [00:00:00.000, 23:59:59.999]. • Format 2: sssss[.SSS]. • Valid values: [0.000, 86399.999]. Example: 01:00:59.999 or 32000.23.

Parameter	Type	Required	Description
End	String	No	The length of the end part of the original video to be cropped out. If you specify this parameter, the setting of the Duration parameter becomes invalid. • Format 1: hh:mm:ss[.SSS]. • Valid values: [00:00:00.000, 23:59:59.999]. • Format 2: sssss[.SSS]. • Value values: [0.000,86399.999]. Example: 01:00:59.999 or 32000.23.

WaterMarks

Parameter	Type	Required	Description
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Parameter	Type	Required	Description
WaterMarkTemplateId	String	No	The ID of the watermark template. If you do not specify this parameter, the default watermark template that contains the following settings is used: • The watermark is in the upper-right corner of the output video image. • The horizontal and vertical offsets relative to the output video image are 0. • The watermark width is 0.12 times the width in the output video resolution. • The watermark height is proportionally scaled based on the watermark width and the aspect ratio of the original image.
InputFile	String	Yes	The watermark input. You can use an image in the PNG format or a file in the MOV format as the watermark input.

Parameter	Type	Required	Description
Width	String	No	The watermark width. If you specify this parameter, the watermark width setting in the template is ignored. The value can be an integer or a decimal number. • Format 1: an integer, which indicates the pixel value of the watermark width. ◦ Valid values: [8, 4096]. ◦ Unit: pixel. • Format 2: a decimal number, which indicates the ratio of the pixel value to the width in the output video resolution in pixels. ◦ Valid values: (0, 1). ◦ The decimal number can be accurate to four decimal places, such as 0.9999. Excessive digits are automatically deleted.

Parameter	Type	Required	Description
Height	String	No	The watermark height. If you specify this parameter, the watermark height setting in the template is ignored. The value can be an integer or a decimal number. • Format 1: an integer, which indicates the pixel value of the watermark height. ◦ Valid values: [8, 4096]. ◦ Unit: pixel. • Format 2: a decimal number, which indicates the ratio of the pixel value to the height in the output video resolution in pixels. ◦ Valid values: (0, 1). ◦ The decimal number can be accurate to four decimal places, such as 0.9999. Excessive digits are automatically deleted.

Parameter	Type	Required	Description
Dx	String	No	The horizontal offset of the watermark relative to the output video image. If you specify this parameter, the horizontal offset setting in the template is ignored. Default value: 0. The value can be an integer or a decimal number. • Format 1: an integer, which indicates the pixel value of the horizontal offset. ◦ Valid values: [8, 4096]. ◦ Unit: pixel. • Format 2: a decimal number, which indicates the ratio of the pixel value to the width in the output video resolution in pixels. ◦ Valid values: (0, 1). ◦ The decimal number can be accurate to four decimal places, such as 0.9999. Excessive digits are automatically deleted.

Parameter	Type	Required	Description
Dy	String	No	The vertical offset of the watermark relative to the output video image. If you specify this parameter, the vertical offset setting in the template is ignored. Default value: 0. The value can be an integer or a decimal number. • Format 1: an integer, which indicates the pixel value of the vertical offset. ◦ Valid values: [8, 4096]. ◦ Unit: pixel. • Format 2: a decimal number, which indicates the ratio of the pixel value to the height in the output video resolution in pixels. ◦ Valid values: (0, 1). ◦ The decimal number can be accurate to four decimal places, such as 0.9999. Excessive digits are automatically deleted.
ReferPos	String	No	The position of the watermark. If you specify this parameter, the watermark position setting in the template is ignored. Valid values: TopRight, TopLeft, BottomRight, and BottomLeft.

Parameter	Type	Required	Description
Type	String	No	The type of the watermark. If you specify this parameter, the watermark type setting in the template is ignored. Valid values: Image and Text. Default value: Image. - A value of Image indicates an image watermark. - A value of Text indicates a text watermark.  Note If you set this parameter to Text, you must specify the TextWaterMark parameter.
Timeline	String	No	The timeline of the watermark. If you specify this parameter, the watermark timeline setting in the template is ignored. For more information, see the Timeline section in this topic.
TextWaterMark	String	No	The configuration of the text watermark. If the watermark is a text watermark, you must specify this parameter. The value must be a JSON object. - For more information, see the TextWaterMark section in this topic. - Example: <pre>{ "Content": "5rWL6K+V5paH5a2X5rC05Y2w", "Top": 2, "Left": 10 }</pre>

Config in the AddWaterMarkTemplate operation

Parameter	Type	Required	Description
Width	String	No	The watermark width. The value can be an integer or a decimal number. • Format 1: an integer, which indicates the pixel value of the watermark width. ◦ Valid values: [8, 4096]. ◦ Unit: pixel. • Format 2: a decimal number, which indicates the ratio of the pixel value to the width in the output video resolution in pixels. ◦ Valid values: (0, 1). ◦ The decimal number can be accurate to four decimal places, such as 0.9999. Excessive digits are automatically deleted.

Parameter	Type	Required	Description
Height	String	No	The watermark height. The value can be an integer or a decimal number. • Format 1: an integer, which indicates the pixel value of the watermark height. Valid values: [8, 4096]. Unit: pixel. • Format 2: a decimal number, which indicates the ratio of the pixel value to the height in the output video resolution in pixels. ◦ Valid values: (0, 1). ◦ The decimal number can be accurate to four decimal places, such as 0.9999. Excessive digits are automatically deleted.

Parameter	Type	Required	Description
Dx	String	No	The horizontal offset of the watermark relative to the output video image. Default value: 0. The value can be an integer or a decimal number. • Format 1: an integer, which indicates the pixel value of the horizontal offset. ◦ Valid values: [8, 4096]. ◦ Unit: pixel. • Format 2: a decimal number, which indicates the ratio of the pixel value to the width in the output video resolution in pixels. ◦ Valid values: (0, 1). ◦ The decimal number can be accurate to four decimal places, such as 0.9999. Excessive digits are automatically deleted.

Parameter	Type	Required	Description
Dy	String	No	The vertical offset of the watermark relative to the output video image. Default value: 0. The value can be an integer or a decimal number. - Format 1: an integer, which indicates the pixel value of the vertical offset. - Valid values: [8, 4096]. - Unit: pixel. - Format 2: a decimal number, which indicates the ratio of the pixel value to the height in the output video resolution in pixels. - Valid values: (0, 1). - The decimal number can be accurate to four decimal places, such as 0.9999. Excessive digits are automatically deleted.
ReferPos	String	No	The position of the watermark. - Valid values: TopRight, TopLeft, BottomRight, and BottomLeft. The four values indicate the upper-right, upper-left, lower-right, and lower-left corners. - Default value: TopRight.

Parameter	Type	Required	Description
Type	String	No	The type of the watermark. Valid values: Image and Text. - Default value: Image. - MPS allows you to use templates for only image watermarks.
Timeline	String	No	The timeline of the watermark. For more information, see the Timeline section in this topic.

The following list provides notes on the Width and Height parameters:

- If you do not specify the Width or Height parameter, the watermark width is 0.12 times the width of the output video resolution, and the watermark height is proportionally scaled based on the watermark width and the aspect ratio of the original image.
- If you specify only the Width parameter, the watermark height is proportionally scaled based on the specified width and the aspect ratio of the original image. If you specify only the Height parameter, the watermark width is proportionally scaled based on the specified height and the aspect ratio of the original image.
- You can also specify both the Width and Height parameters to determine the width and height of the watermark.

Timeline

Parameter	Type	Required	Description
Start	String	No	The beginning of the time range during which the watermark is displayed. - Unit: seconds. - Value values: integers. - Default value: 0.
Duration	String	No	The display duration of the watermark. - Valid values: integers and ToEND. - Default value: ToEND.

TextWaterMark

Parameter	Type	Required	Description
Content	String	Yes	The text to be displayed as the watermark. The text must be encoded in the Base64 format. For example, if the original text is Test Text Watermark, the encoded text is <pre>5rWL6K+V5paH5a2X5rC05Y2w</pre>
FontName	String	No	The front of the text. Default value: SimSun. For more information, see Fonts.
FontSize	Integer	No	The size of the text. • Default value: 16. • Valid values: (4, 120).
FontColor	String	No	The color of the text. For more information, see Text colors.
FontAlpha	Integer	No	The transparency of the text. • Valid values: (0, 1). • Default value: 1.
Top	Integer	No	The top margin of the text. • Default value: 0. • Valid values: [0, 4096].
Left	Integer	No	The left margin of the text. • Default value: 0. • Valid values: [0, 4096].
BorderWidth	Integer	No	The outline width of the text. • Default value: 0. • Valid values: [0, 4096].

Parameter	Type	Required	Description
BorderColor	String	No	The outline color of the text. • Default value: black. • For more information, see Outline colors.

MergeList

Parameter	Type	Required	Description
MergeURL	String	Yes	The OSS URL of the clip. • Example: <code>http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/example-object.flv</code>. • The URL must comply with RFC 2396 and be encoded in UTF-8, with reserved characters being percent-encoded.
Start	String	No	The start point in time of the clip. • Valid formats: <code>hh:mm:ss[.SSS]</code> and <code>sssss[.SSS]</code>. • Examples: <code>01:59:59.999</code> and <code>32000.23</code>.
Duration	String	No	The duration of the clip. • Valid formats: <code>hh:mm:ss[.SSS]</code> and <code>sssss[.SSS]</code>. • Examples: <code>01:59:59.999</code> and <code>32000.23</code>.

M3U8NonStandardSupport

Parameter	Type	Required	Description
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Parameter	Type	Required	Description
TS	String	No	The non-standard support of the M3U8 format for the TS format. The value must be a JSON object. For more information, see the TS section in this topic.

TS

Parameter	Type	Required	Description
Md5Support	Boolean	No	Specifies whether to support the generation of the MD5 hash value of the TS file in the output M3U8 video.
SizeSupport	Boolean	No	Specifies whether to support the generation of the size information about the TS file in the output M3U8 video.

Encryption

Parameter	Type	Required	Description
Type	String	Yes	The encryption type. Set the value to hls-aes-128.
Key	String	Yes	The key that is used to encrypt the video. - The key must be encrypted. For more information, see the KeyType parameter. - For example, if the key is encryptionkey128, you can encrypt the key in the Base64 format or use Key Management Service (KMS) to encrypt the key.

Parameter	Type	Required	Description
KeyUri	String	Yes	The URL that is used to request the key. The URL is encrypted in the Base64 format.
KeyType	String	Yes	The key cannot be transmitted to MPS in plaintext. You must encrypt the key. You can encrypt the key in the Base64 format or use KMS to encrypt the key.  Note Alibaba Cloud provides the master key. To obtain the master key, submit a ticket. Base64 is a basic encryption format. If you use KMS, the key is first encrypted in the Base64 format and then encrypted by KMS.

SubtitleConfig

Parameter	Type	Required	Description
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Parameter	Type	Required	Description
ExtSubtitleList	ExtSubtitle[]	No	The external subtitles. The value must be a JSON array that contains up to four JSON objects. - For more information, see the ExtSubtitle section in this topic. - Example: <pre>[{"Input": {"Bucket": "example-bucket", "Location": "oss-cn-hangzhou", "Object": "example.srt", "CharEncoding": "UTF-8"}}]</pre>

ExtSubtitle

Parameter	Type	Required	Description
			The OSS object for the external subtitle. The value must be a JSON object. - The object must be in the SRT or ASS format. - For more information, see the Input section in this topic. - Example: <pre>{"Bucket": "example-bucket", "Location": "oss-cn-hangzhou", "Object": "example.srt"}</pre>  Note - This parameter supports the {ObjectPrefix}, {FileName}, and {ExtName} placeholder

Parameter	Type	Required	Description
Input	String	Yes	Example 1 of the Object parameter: a/b/c/test.flv. Example 2 of the Object parameter: You can use {ObjectPrefix}{FileName}-cn.srt, which contains two placeholders, to specify the OSS URL of the external subtitle object. If you set the Object parameter to %7bObjectPrefix%7d%7bFileName%7d-cn.srt, the object identified by MPS is a/b/c/test-cn.srt. The OSS URL must comply with RFC 2396 and be encoded in UTF-8, with reserved characters being percent-encoded.

Parameter	Type	Required	Description
CharEnc	String	No	The character set used by the external subtitle. - Valid values: UTF-8, GBK, BIG5, and auto. - Default value: auto.  Note If you set this parameter to auto, the detected character set may not be the actual character set. We recommend that you set this parameter to another value.

Opening

Parameter	Type	Required	Description
OpenUrl	String	Yes	The OSS URL of the opening part of the video.
Start	String	No	The amount of time after which the opening part is played. - Unit: seconds. - Default value: 0.

Parameter	Type	Required	Description
Width	String	No	The width of the opening part. - Valid values: values in the range of (0, 4096), -1, and full. - A value of -1 indicates that the width of the source of the opening part is retained. - A value of full indicates that the width of the main part is used for the opening part. - Default value: -1.
Height	String	No	The height of the opening part. - Valid values: values in the range of (0, 4096), -1, and full. - A value of -1 indicates that the height of the source of the opening part is retained. - A value of full indicates that the height of the main part is used for the opening part. - Default value: -1.

TailSlate

Parameter	Type	Required	Description
TailUrl	String	Yes	The OSS URL of the ending part of the video.

Parameter	Type	Required	Description
BlendDuration	String	No	The amount of time between the end of the main part and the beginning of the ending part. During the video part transition, the last frame of the main part fades out, and the first frame of the ending part fades in. Unit: seconds. Default value: 0.
Width	String	No	The width of the ending part. - Valid values: values in the range of (0, 4096), -1, and full. - A value of -1 indicates that the width of the source of the ending part is retained. - A value of full indicates that the width of the main part is used for the ending part. - Default value: -1.
Height	String	No	The height of the ending part. - Valid values: values in the range of (0, 4096), -1, and full. - A value of -1 indicates that the height of the source of the ending part is retained. - A value of full indicates that the height of the main part is used for the ending part. - Default value: -1.

Parameter	Type	Required	Description
IsMergeAudio	Boolean	No	Specifies whether to merge the audio content in the ending part. Default value: true.
BgColor	String	No	The color of the borders that are added to the ending part if the size of the ending part is smaller than that of the main part. Default value: White. For more information, see Background colors .

DeWatermark

The value must be a JSON object. Example:

```
{
  "0": [
    {
      "l": 10,
      "t": 10,
      "w": 10,
      "h": 10
    },
    {
      "l": 100,
      "t": 0.1,
      "w": 10,
      "h": 10
    }
  ],
  "128000": [],
  "250000": [
    {
      "l": 0.2,
      "t": 0.1,
      "w": 0.01,
      "h": 0.05
    }
  ]
}
```

In this example, the three presentation timestamps (PTS) indicate the points in time at which the watermarks are blurred. Unit: milliseconds.

- L: a number that indicates the left margin of the blurred area.

- T: a number that indicates the top margin of the blurred area.
- W: a number that indicates the width of the blurred area.
- H: a number that indicates the height of the blurred area.

If the value of the L, T, W, or H field is greater than 1, the number indicates the pixel value. Otherwise, the number indicates the ratio of the pixel value to the corresponding pixel value of the watermark source. The blurred area is specified based on the nearest integers of the values of the L, T, W, and H fields.

This example specifies the following settings:

- Blur two watermarks in the video image starting from the first frame. The first watermark is 10 × 10 pixels away from the upper-left corner of the video image and is 10 × 10 pixels in size. The second watermark is 100 pixels away from the left side of the video image and is 10 × 10 pixels in size. The distance between the top of the video image and the watermark is calculated by using the following formula: $0.1 \times \text{Height of the source}$.
- Blur the two watermarks in the video image within the first 128,000 milliseconds.
- Blur the watermark in the video image starting from the 250,000th millisecond. The watermark width is 0.01 times the width of the source, and the watermark height is 0.05 times the height of the source. The distance between the left side of the video image and the watermark is calculated by using the following formula: $0.2 \times \text{Width of the source}$. The distance between the top of the video image and the watermark is calculated by using the following formula: $0.1 \times \text{Height of the source}$.

Amix

Parameter	Type	Required	Description
AmixURL	String	Yes	The URL of the audio track to be mixed as the background music. The URL must be an OSS URL or the value of the Input parameter in the form of a string. If you want to mix two audio tracks in a video, set this parameter to the value of the Input parameter in the form of a string.
Map	String	No	The audio track to be mixed. Format: 0:a:{audio_index}. Example: 0:a:0.

Parameter	Type	Required	Description
MixDurMode	String	No	The mode to specify the mixing duration. Valid values: first and longest. • A value of first indicates that the length of the output media equals the length of the input media. • A value of longest indicates that the length of the output media equals the length of the longer input media. • Default value: longest.
Start	String	No	The start point in time. You can specify a numeric value or a time value. Examples: 1:25:36.240 and 32000.23.
Duration	String	No	The duration. You can specify a numeric value or a time value.

SnapshotConfig

 **Note** The parameters in this section and their extended parameters in some of the following sections are involved when you call the SubmitSnapshotJob operation.

Parameter	Type	Required	Description
Format	String	No	The snapshot format. • Default value: null. • If you set this parameter to vtt, each output snapshot is in the WebVTT format.
			The threshold that is used to filter out black frames for the first snapshot to be

Parameter	Type	Required	Description
BlackLevel	String	No	captured. This feature is available if you request the system to capture multiple snapshots. • Default value: null. • Value values: [30,100]. A smaller value indicates a smaller proportion of black pixels in the video image. • If you set the Time parameter to a value greater than 0, this parameter is invalid, which means that the filtering feature is disabled. • If you set the Time parameter to 0 and the Num parameter to a value greater than 1, this parameter is valid and takes effect only on the first snapshot within the first 5 seconds. If all frames within the first 5 seconds are black, the first black frame is returned as the captured snapshot. • If you set the Time parameter to 0 and the Num parameter to 1, this parameter is invalid and black frames are forcibly filtered out for snapshot capturing. If you want to filter out pure black frames for the first snapshot, we recommend that you set this parameter to 100.

Parameter	Type	Required	Description
			For example, if you set the Time parameter to 0 and the Num parameter to 10, and you want to filter out pure black frames for the first snapshot, set this parameter to 100.
PixelBlackThreshold	String	No	The color value threshold that determines whether a pixel is black. - Value values: [0, 255]. - If you set this parameter to 70, pixels whose color value is less than 70 are black. Notes: - You can set this parameter together with the BlackLevel parameter to modify the effect of black frame filtering. - You can dynamically modify this parameter to adjust the identification of black pixels. For example, you have set this parameter to 50 and you find that the effect of black frame filtering is not as expected. In this case, you can set this parameter to 100.
OutputFile	String	Yes	The configuration of the output. This value must be a JSON object. For more information, see the OutputFile section in this topic.

Parameter	Type	Required	Description
TileOutputFile	String	No	The configuration of the output in tile mode. The value must be a JSON object in the same format as the OutputFile parameter. - If you specify JPG as the snapshot format and you want to asynchronously capture multiple snapshots in sequence, you must use the {TileCount} placeholder for the Object parameter in this parameter to distinguish between different snapshots. The {TileCount} placeholder specifies the sequence number of a snapshot. For example, if you set the Num parameter to 3 and set the Object field to {TileCount}.jpg for this parameter, the output snapshots are named 00001.jpg, 00002.jpg, and 00003.jpg. - This parameter is required if you want to tile the captured snapshots. It specifies the URL of the tiled snapshot to be generated.
Time	String	Yes	The point in time at which a snapshot is captured. Unit: milliseconds.

Parameter	Type	Required	Description
Interval	String	No	The interval for snapshot capturing. • You must set this parameter to a value greater than 0 if you want to asynchronously captures multiple snapshots in sequence. • Default value: 10. • Unit: seconds. • If you set this parameter to 0, the system captures snapshots at fixed intervals based on the length of the video.

Parameter	Type	Required	Description
Num	String	No	The number of snapshots to be captured. If you want to asynchronously capture snapshots in sequence, you must specify a parameter value greater than 0. • If the result of $\text{Time} + \text{Interval} \times \text{Number}$ equals a value greater than the value that indicates the length of the video, no more snapshots are captured and the snapshots that have been captured are returned. • If you set this parameter to 1, the Interval parameter does not take effect, and only one snapshot is captured.
Width	String	No	The width of a snapshot. • Unit: pixel. • Valid values: [8, 4096].
Height	String	No	The height of a snapshot. • Unit: pixel. • Valid values: [8, 4096].

Parameter	Type	Required	Description
FrameType	String	No	The snapshot type. Valid values: - normal: normal frame - intra: I-frame Default value: intra.
TileOut	String	No	The tiling configuration. The value must be a JSON object. For more information, see the TileOut section in this topic.
SubOut	String	No	The configuration of the tiled snapshot in the WebVTT format. For more information, see the SubOut Webvtt section in this topic.

OutputFile

Parameter	Type	Required	Description
Bucket	String	Yes	The OSS bucket that stores the output. For more information, see the description of the term object in Terms .
Location	String	Yes	The OSS region in which the OSS bucket resides. For more information, see the description of the term region in Terms .
			The one or more OSS objects that are generated as the output. The objects must be in the JPG format, and their URLs must comply with RFC 2396 and be encoded in UTF-8, with reserved characters being percent-encoded. Example: %7BObjectPrefix%7D%7BFileName%7D%7BCoun

Parameter	Type	Required	Description
Object	String	Yes	t%7D.jpg. In this case, if the input file is a/b/c.flv, the output snapshots may be a/b/c00001.jpg and a/b/c00002.jpg. The placeholders in the URL will be replaced with the actual values used in your business operations. - Placeholders supported by workflows: {ObjectPrefix}, which indicates the prefix of the input file name. {FileName}, which indicates the input file name. {ExtName}, which indicates the file name extension of the input file. {SnapshotTime}, which indicates the point in time at which the snapshot is captured. {Count}, which indicates the sequence number of the snapshot. {RunId}, which indicates the ID of the execution instance. {MediaId}, which indicates the ID of the input file. - Placeholders supported by other elements: {ObjectPrefix}, which indicates the prefix of the input file name. {FileName}, which indicates the input file name. {ExtName}, which indicates the file name extension of the input file. {SnapshotTime}, which indicates the point in time at which the snapshot is captured. {Count},

Parameter	Type	Required	Description
			which indicates the sequence number of the snapshot. Notes: If you want to asynchronously capture multiple snapshots in sequence, the specified URL must contain %7BCount%7D. The {Count} placeholder can distinguish between different snapshots. For example, if you set the Num parameter to 3 and set the Object parameter to %7BCount%7D.jpg for OutputFile, the output snapshots are named 00001.jpg, 00002.jpg, and 00003.jpg.

TileOut

Parameter	Type	Required	Description
Lines	String	No	The number of rows that the tiled snapshot contains. - Integer - Value values: (0, 10000]. - Default value: 10.
Columns	String	No	The number of columns that the tiled snapshot contains. - Integer - Value values: (0, 10000]. - Default value: 10.
CellWidth	String	No	The width of a single snapshot before tile. The default value is the value of the Width parameter in SnapshotConfig.

Parameter	Type	Required	Description
CellHeight	String	No	The height of a single snapshot before tile. The default value is the value of the Height parameter in SnapshotConfig.
Margin	String	No	The margin width of the tiled snapshot. • Default value: 0. • Unit: pixel.
Padding	String	No	The spacing between two adjacent snapshots. Default value: 0. Unit: pixel.
Color	String	No	The background color. • You can set the Color parameter to a color keyword or random. • Default value: black. • If you want to set the background color to black, you can specify one of the following three keywords: Black, black, and #000000.
IsKeepCellPic	String	No	Specifies whether to retain single snapshots. • Valid values: true and false. • Default value: true.

SubOut Webvtt

Parameter	Type	Required	Description
IsSptFrag	String	No	Specifies whether to tile the snapshots. • A value of true indicates that snapshots are to be tiled. • Default value: false.

NotifyConfig

Parameter	Type	Required	Description
QueueName	String	No	The name of the queue that is created in Message Service (MNS). • MPS allows you to associate an MPS queue with an MNS queue. After a job in the MPS queue is complete, MPS sends the execution result of the job to the associated MNS queue. • For information about how to receive messages, see Receive notifications. • Before you perform the association operation, you must create a queue in the MNS console.
Topic	String	No	The name of the topic that is created in MNS. • MPS allows you to associate an MPS queue with an MNS topic. After a job in the MPS queue is complete, MPS sends the execution result of the job to the associated MNS topic. • The associated MNS topic pushes a message about the execution result to the URL that subscribes to the MNS topic. • Before you perform the association operation, you must create a topic in the MNS console.

Parameters related to input in the SubmitJobs operation

Parameter	Type	Required	Description
Bucket	String	Yes	The OSS bucket that stores the input file. - You must grant the read permissions on the bucket to MPS on the Access Control page in the OSS console. - For more information, see the description of the term bucket in Terms.
Location	String	Yes	The OSS region in which the OSS bucket resides. For more information, see the description of the term region in Terms.
Object	String	Yes	The OSS object that is used as the input file. - The URL of the OSS object must comply with RFC 2396 and be encoded in UTF-8, with reserved characters being percent-encoded. - For more information, see the description of the term object in Terms.

Parameter	Type	Required	Description
Audio	String	No	The audio configuration of the input file. The value must be a JSON object.  Note This parameter is required if the input file is in the ADPCM or PCM format. - For more information, see the InputAudio section in this topic. - Example: <pre>{"Channels": "2", "SampleRate": "44100"}</pre>.
Container	String	No	The container configuration of the input file. The value must be a JSON object.  Note This parameter is required if the input file is in the ADPCM or PCM format. - For more information, see the InputContainer section in this topic. - Example: <pre>{"Format": "u8"}</pre>.

InputContainer

Parameter	Type	Required	Description
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Parameter	Type	Required	Description
Format	String	Yes	The audio format of the input file. Valid values: alaw, f32be, f32le, f64be, f64le, mulaw, s16be, s16le, s24be, s24le, s32be, s32le, s8, u16be, u16le, u24be, u24le, u32be, u32le, and u8.

InputAudio

Parameter	Type	Required	Description
Channels	String	Yes	The number of sound channels in the input file. Valid values: [1, 8].
Samplerate	String	Yes	The audio sampling rate of the input file. - Valid values: (0, 320000]. - Unit: Hz.

AnalysisConfig

Parameter	Type	Required	Description
QualityControl	String	No	The configuration of the output file quality. The value must be a JSON object. For more information, see the AnalysisConfig section in this topic.
PropertiesControl	String	No	The property configuration. The value must be a JSON object. For more information, see the PropertiesControl section in this topic.

QualityControl

Parameter	Type	Required	Description
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Parameter	Type	Required	Description
RateQuality	String	No	The quality level of the output file. • Value values: (0, 51). • The value must be an integer. • Default value: 25.
MethodStreaming	String	No	The playback mode. Valid values: network and local. Default value: network.

PropertiesControl

Parameter	Type	Required	Description
Deinterlace	String	No	Specifies whether to forcibly runs deinterlacing. Valid values: • Auto: automatically runs deinterlacing. • Force: forcibly runs deinterlacing. • None: forbids deinterlacing.
Crop	String	No	The cropping configuration of the video image. • By default, automatic cropping is performed. • If you do not set this parameter to an empty JSON object, the Mode parameter is required. • For more information, see the Crop section in this topic.

Crop

Parameter	Type	Required	Description
Mode	String	No	The cropping mode. This parameter is required if the value of the Crop parameter is not an empty JSON object. Valid values: - Auto: automatically runs cropping. - Force: forcibly runs cropping. - None: forbids cropping.
Width	Integer	No	The width of the video image after the margins are cropped out. - Valid values: [8, 4096]. - If you set the Mode parameter to Auto or None, the setting of this parameter is invalid.
Height	Integer	No	The height of the video image after the margins are cropped out. - Valid values: [8, 4096]. - If you set the Mode parameter to Auto or None, the setting of this parameter is invalid.
Top	Integer	No	The top margin to be cropped out. - Valid values: [8, 4096]. - If you set the Mode parameter to Auto or None, the setting of this parameter is invalid.

Parameter	Type	Required	Description
Left	Integer	No	The left margin to be cropped out. - Valid values: [8, 4096]. - If you set the Mode parameter to Auto or None, the setting of this parameter is invalid.

TransFeatures

Parameter	Type	Required	Description
MergeList	String	No	The URLs of the clips to be merged. - The value must be a JSON array that contains up to four JSON objects. For more information, see the MergeList section in this topic. - Example: <pre>[{"MergeURL": "http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/k/mp4.mp4"}, {"MergeURL": "http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/c/ts.ts", "Start": "1:14", "Duration": "29"}]</pre>

Parameters related to output in the SubmitJobs operation

Parameter	Type	Required	Description
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Parameter	Type	Required	Description
URL	String	No	The OSS URL of the output file. • Example: <code>http://example-bucket-****.oss-cn-hangzhou.aliyuncs.com/example.flv</code>. • If you do not specify this parameter, the Bucket, Location, and Object parameters are required.
Bucket	String	No	• The OSS bucket that stores the output file. If you do not specify the URL parameter, this parameter is required. • Otherwise, the setting of this parameter is invalid. Before you specify a bucket, grant the write permissions on the bucket to MPS on the Access Control page in the OSS console. • For more information, see the description of the term bucket in Terms.

Parameter	Type	Required	Description
Location	String	No	• The OSS region in which the OSS bucket resides. If you do not specify the URL parameter, this parameter is required. • Otherwise, the setting of this parameter is invalid. • For more information, see the description of the term region in Terms.
Object	String	No	• The name of the OSS object as the output file. If you do not specify the URL parameter, this parameter is required. • Otherwise, the setting of this parameter is invalid. The parameter value must comply with RFC 2396 and be encoded in UTF-8, with reserved characters being percent-encoded. • For more information about OSS objects, see the description of the term object in Terms.

MultiBitrateVideoStream

Parameter	Type	Required	Description
URI	String	No	The name of the output video stream, which must end with .m3u8. Example: a/b/test.m3u8. Format: <code>^[a-z]{1}[a-z0-9./-]+\$</code> .

Parameter	Type	Required	Description
RefActivityName	String	Yes	The name of the associated activity.
ExtXStreamInfo	Json	Yes	The information about the stream. Example: <pre>{ "BandWidth": "111110", "Audio": "auds", "Subtitles": "subs" } .</pre>

ExtXMedia

Parameter	Type	Required	Description
Name	String	Yes	Required. The name of the resource, which can be up to 64 bytes in length and must be encoded in UTF-8. This parameter corresponds to NAME in the HTTP Live Streaming (HLS) V5 protocol.
Language	String	No	Optional. The language of the resource, which must comply with RFC 5646. This parameter corresponds to LANGUAGE in the HLS V5 protocol.
URI	String	Yes	Required. The path of the resource. Format: <code>^[a-z]{1}[a-z0-9./-]+\$</code> . Example: <code>a/b/c/d/audio-1.m3u8</code> .

MasterPlayList

Parameter	Type	Required	Description
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Parameter	Type	Required	Description
MultiBitrateVideoStreams	JSONArray	Yes	The array of multiple streams. Example: <pre>[{"RefActivityName": "video-1", "ExtXStreamInfo": {"BandWidth": "111110", "Audio": "audio", "Subtitles": "subs"}}]</pre>

ExtXStreamInfo

Parameter	Type	Required	Description
BandWidth	String	Yes	Required. The upper limit of the total bitrate. This parameter corresponds to BANDWIDTH in the HLS V5 protocol.
Audio	String	No	Optional. The ID of the audio stream group. This parameter corresponds to AUDIO in the HLS V5 protocol.
Subtitles	String	No	Optional. The ID of the subtitle stream group. This parameter corresponds to SUBTITLES in the HLS V5 protocol.

AdaptationSet

Parameter	Type	Required	Description
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Parameter	Type	Required	Description
Group	String	Yes	Required. The name of the group. Example: <pre><AdaptationSet group="videostreams" mimeType="video/mp4" par="4096:1744" minBandwidth="258157" maxBandwidth="10285391" minWidth="426" maxWidth="4096" minHeight="180" maxHeight="1744" segmentAlignment="true" startWithSAP="1"></pre>
Lang	String	No	The language. You can specify this parameter for audio and subtitle resources.

Representation

Parameter	Type	Required	Description
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Parameter	Type	Required	Description
Id	String	Yes	Required. The ID of the stream. Example: <pre><Representation id="240p250kbps" frameRate="24" bandwidth="258157" " codecs="avc1.4d40 0d" width="426" height="180"></pre>
URI	String	Yes	Required. The path of the resource. Format: <code>^[a-z]{1}[a-z0-9./-]+\$</code> . Example: <code>a/b/c/d/video-1.mpd</code> .

InputConfig

Parameter	Type	Required	Description
Format	String	Yes	Required. The format of the input subtitle file. Valid values: <code>stl</code> , <code>ttml</code> , and <code>vtt</code> .

Parameter	Type	Required	Description
InputFile	String	Yes	Example 1: <pre>{ "Bucket": "example-bucket-****", "Location": "oss-cn-hangzhou", "Object": "example-logo****.png" }</pre> Example 2: <pre>{ "URL": "http://exampleBucket****.oss-cn-hangzhou.aliyuncs.com/subtitle/test****.chs.vtt" }</pre>

17.2. Error codes

This topic describes the error codes for common errors, job errors, pipeline errors, and messaging errors.

Common errors

Error code	Description	Error message
Throttling	The error message returned because the request was throttled.	Request was denied due to request throttling.
InvalidIdentity.ServiceDisabled	The error message returned because the service is not activated or is frozen.	The request identity was not allowed operated.
InvalidParameter	The error message returned because the specified parameter is invalid.	The specified parameter \"%s\" is invalid.
InvalidParameter.NullValue	The error message returned because the parameter is set to null.	The specified parameter \"%s\" cannot be null.
InvalidParameter.InvalidState	The error message returned because the status is invalid.	The specified parameter \"%s\" is invalid.
InvalidParameter.EmptyValue	The error message returned because the parameter is empty.	The specified parameter \"%s\" cannot be empty.

Error code	Description	Error message
InvalidParameter.NotSupported	The error message returned because the parameter is not supported. For example, the Profile parameter is not supported for H.265 encoding jobs that use custom templates.	The specified parameter \"%s\" is not supported.
InternalError	The error message returned because an unknown internal error occurred.	The operation has failed due to some unknown error, exception or failure.
InvalidParameter.OutOfRange	The error message returned because the specified parameter value is outside the accepted range.	The specified parameter \"%s\" is out of range.
InvalidParameter.ResourceNotFound	The error message returned because the specified resource does not exist.	The resource operated \"%s\" cannot be found.
InvalidParameter.ResourceContentBad	The error message returned because the resource content is invalid.	The resource operated \"%s\" is bad.
InvalidParameter.ResourceNotSupported	The error message returned because the resource type is not supported. For example, the file name extension is invalid.	The resource operated \"%s\" is not supported.
InvalidParameter.NoAudioStream	The error message returned because the specified resource does not contain an audio stream.	The resource has no audio stream.
InvalidParameter.MergeFileNoVideoOrAudio	The error message returned because the merged files do not contain audio and video streams at the same time.	The merge File must contain video and audio stream at the sametime.
PermissionDenied.ResourceAccess	The error message returned because the resource access request is denied.	MTS not authorized to operate on the specified resource \"%s\".
PermissionDenied.ResourceQuotaExceed	The error message returned because the resource quota has been used up.	The resource \"%s\" quota has been used up.
InvalidParameter.ResourceDeleted	The error message returned because the specified resource has been deleted.	The resource operated \"%s\" has been deleted.

Error code	Description	Error message
InvalidParameter.JsonFormatInvalid	The error message returned because the specified parameter value is not a valid JSON string.	The parameter \"%s\" does not conform to the JSON specification.
InvalidParameter.JsonObjectFormatInvalid	The error message returned because the specified parameter value is not a valid JSON object.	The parameter \"%s\" does not conform to the JSON Object specification.
InvalidParameter.JsonArrayFormatInvalid	The error message returned because the specified parameter value is not a valid JSON array.	The parameter \"%s\" does not conform to the JSON Array specification.
InvalidParameter.UUIDFormatInvalid	The error message returned because the specified ID is invalid. The ID must follow UUID specifications.	The parameter \"%s\" is invalid. A uuid must: 1) be comprised of characters[a-f], numbers[0-9]; 2) be 32 characters long.
InvalidParameter.Format	The error message returned because the parameter format is incorrect.	The format of parameter \"%s\" is invalid.
InvalidParameter.NumberFormatInvalid	The error message returned because the number format is incorrect.	The number format of parameter \"%s\" is invalid.
InvalidParameter.BucketNameInvalid	The error message returned because the specified bucket name is invalid. The name must meet the naming conventions for an Object Storage Service (OSS) bucket.	The bucket name \"%s\" is invalid. A bucket name must: 1) be comprised of lower-case characters, numbers, underscore(_) or dash(-); 2) start with lower case or numbers; 3) be between 3-255 characters long.
InvalidParameter.LocationInvalid	The error message returned because the specified region is invalid. The region must be a region in which OSS can be used.	The location \"%s\" is invalid. A location name should be one of five: oss-cn-hangzhou, oss-cn-qingdao, oss-cn-beijing, oss-cn-hongkong, oss-cn-shenzhen. And now MTS only support oss-cn-hangzhou.
InvalidParameter.ObjectKeyInvalid	The error message returned because the specified object name is invalid. The name must meet the naming conventions for an OSS object.	The object key \"%s\" is invalid. An object name should be between 1 - 1023 bytes long when encoded as UTF-8 and cannot contain LF or CR or unsupported chars in XML1.0.

Job errors

Error code	Description	Error message
PermissionDenied.JobInComplete	The error message returned because completed jobs cannot be canceled.	The Job operated \"%s\" is complete, cannot cancel.
PermissionDenied.JobInFailure	The error message returned because failed jobs cannot be canceled.	The Job operated \"%s\" is failure, cannot cancel.
PermissionDenied.JobInRunning	The error message returned because running jobs cannot be canceled.	The Job operated \"%s\" is running, cannot cancel.
InvalidParameter.TemplateNotSupported	The error message returned because the specified template is not supported. For example, the template that you used to submit the job is not included in the recommended template list returned from a successful intelligent template analysis.	The template operated \"%s\" is not supported.
InvalidParameter.TemplateNotFound	The error message returned because the specified template does not exist.	The Template operated \"%s\" cannot be found.

Pipeline errors

Error code	Description	Error message
NotSupportedJob.SystemTemplateJobNotSupported	The error message returned because jobs that use the preset templates cannot be processed in the boost pipeline.	The Template \"%s\" is a system template, cannot be supported by boost pipeline.
NotSupportedJob.AnalysisJobNotSupported	The error message returned because analysis jobs cannot be processed in the boost pipeline.	Analysis Job cannot be supported by boost pipeline.
NotSupportedJob.ContainerFormatNotSupported	The error message returned because jobs that use the custom templates in a format that is not M3U8 cannot be processed in the boost pipeline.	In user defined template \"%s\", container format \"%s\" is not m3u8, cannot be supported by boost pipeline.
NotSupportedJob.DurationIsLessThanHalfAnHour	The error message returned because files of which the duration is shorter than 30 minutes cannot be processed in the boost pipeline.	Duration is \"%s\" less than half an hour, cannot be supported by boost pipeline.

Messaging errors

Error code	Description	Error message
EntityNotExist.Role	The error message returned because the specified role does not exist.	The role does not exist.
AccessDenied	The error message returned because the RAM role is not authorized to send messages.	The OwnerId that your AccessKeyId associated to is forbidden for this operation.
InvalidQueueName	The error message returned because the specified queue name is invalid.	The queue name you provided is invalid. QueueName should start with alpha and contain only alpha, digit or -.
TopicNameInvalid	The error message returned because the specified topic name is invalid.	The topic name you provided is invalid. TopicName should start with alpha or digit and contain only alpha, digit or -.
QueueNotExist	The error message returned because the specified queue does not exist.	The queue name you provided does not exist.
TopicNotExist	The error message returned because the specified topic does not exist.	The Topic you provided does not exist.
InvalidArgument	The error message returned because the length of the message body exceeds the limit.	The length of message must not be larger than MaximumMessageSize.

17.3. Preset template details

This topic describes the Narrowband HD™ templates and naming rules for template IDs. The templates include preset templates, static preset templates, and intelligent preset templates.

Preset narrowband HD™ templates

The preset Narrowband HD™ templates are transcoding templates developed based on Alibaba Cloud ApsaraVideo Media Processing (MPS). Compared with a regular transcoding template, a preset template allows you to generate an output video at a lower bitrate without compromising video quality, which helps you reduce operational costs.

Note The multi-platform MP4-SDtoHD and MP4-2Kto4K templates are preset super-resolution templates. These templates are available only in China (Hangzhou) and China (Shanghai) regions. To use these templates, you need to first enable the Narrowband HD™ 2.0 pipeline.

ID	Name		Container format	Maximum bitrate (Kbit/s)	Resolution - width (pixels)
S00000003-200050	MP4-FHD-NarrowBandH DV2		MP4	3,000	1920
S00000003-200040	MP4-HD-NarrowBandH DV2		MP4	1,500	1280
S00000003-200030	MP4-SD-NarrowBandH DV2		MP4	800	848
S00000003-200020	MP4-LD-NarrowBandH DV2		MP4	400	640
S00000003-400040	MP4-SDToHD-NarrowBandH DV2		MP4	6,000	1280
S00000003-400070	MP4-2KTo4K-NarrowBandH DV2		MP4	20,000	3840
S00000002-000070	FLV-4K-NarrowBandH DV1		FLV	8,000	3840
S00000002-000060	FLV-2K-NarrowBandH DV1		FLV	4,000	2048
S00000002-000050	FLV-FHD-NarrowBandH DV1		FLV	3,000	1920
S00000002-000040	FLV-HD-NarrowBandH DV1		FLV	1,500	1280
S00000002-000030	FLV-SD-NarrowBandH DV1		FLV	800	848
S00000002-000020	FLV-LD-NarrowBandH DV1		FLV	400	640
S00000002-100070	M3U8-4K-NarrowBandH DV1		M3U8	8,000	3840

ID	Name		Container format	Maximum bitrate (Kbit/s)	Resolution - width (pixels)
S00000002-100060	M3U8-2K-NarrowBandH DV1		M3U8	4,000	2048
S00000002-100050	M3U8-FHD-NarrowBandH DV1		M3U8	3,000	1920
S00000002-100040	M3U8-HD-NarrowBandH DV1		M3U8	1,500	1280
S00000002-100030	M3U8-SD-NarrowBandH DV1		M3U8	800	848
S00000002-100020	M3U8-LD-NarrowBandH DV1		M3U8	400	640
S00000002-200070	MP4-4K-NarrowBandH DV1		MP4	8,000	3840
S00000002-200060	MP4-2K-NarrowBandH DV1		MP4	4,000	2048
S00000002-200050	MP4-FHD-NarrowBandH DV1		MP4	3,000	1920
S00000002-200040	MP4-HD-NarrowBandH DV1		MP4	1,500	1280
S00000002-200030	MP4-SD-NarrowBandH DV1		MP4	800	848
S00000002-200020	MP4-LD-NarrowBandH DV1		MP4	400	640

Static preset templates

Compared with intelligent preset templates, static preset templates can be directly used for transcoding. Template analysis is not required. Static preset templates include video transcoding templates, audio transcoding templates, and templates for container format conversion. Audio transcoding templates can be used for audio-only streams in the MP3 format.

- Video transcoding templates

Videos transcoded by using video transcoding templates have the same width. The height of the output video is scaled based on the original aspect ratio of the video. The bitrates of the transcoded audio and video streams cannot be greater than the maximum bitrates described in the following table.

ID	Name	Container format	Maximum video bitrate (Kbit/s)	Maximum audio bitrate (Kbit/s)	Resolution - width (pixels)	Remarks
S00000001-000070	FLV-4K	FLV	6,000	160	3840	This template can be used only in the Flash player.
S00000001-000060	FLV-2K	FLV	3,500	160	2048	This template can be used only in the Flash player.
S00000001-000040	FLV-FHD	FLV	3,000	160	1920	This template can be used only in the Flash player.
S00000001-000030	FLV-HD	FLV	1,800	128	1280	This template can be used only in the Flash player.
S00000001-000020	FLV-SD	FLV	800	80	848	This template can be used only in the Flash player.
S00000001-000010	FLV-LD	FLV	400	64	640	This template can be used only in the Flash player.

ID	Name	Container format	Maximum video bitrate (Kbit/s)	Maximum audio bitrate (Kbit/s)	Resolution - width (pixels)	Remarks
S00000001-000050	FLV-XLD	FLV	300	32	320	This template can be used only in the Flash player.
S00000001-100070	M3U8-4K	M3U8	6,000	160	3840	This template can be used only on web browsers, iPhone 4 and newer devices, iPads, and devices that run Android 3.0 or later.
S00000001-100060	M3U8-2K	M3U8	3,500	160	2048	This template can be used only on web browsers, iPhone 4 and newer devices, iPads, and devices that run Android 3.0 or later.

ID	Name	Container format	Maximum video bitrate (Kbit/s)	Maximum audio bitrate (Kbit/s)	Resolution - width (pixels)	Remarks
S00000001-100040	M3U8-FHD	M3U8	3,000	160	1920	This template can be used only on web browsers, iPhone 4 and newer devices, iPads, and devices that run Android 3.0 or later.
S00000001-100030	M3U8-HD	M3U8	1,800	128	1280	This template can be used only on web browsers, iPhone 4 and newer devices, iPads, and devices that run Android 3.0 or later.
S00000001-100020	M3U8-SD	M3U8	800	80	848	This template can be used only on web browsers, iPhone 4 and newer devices, iPads, and devices that run Android 3.0 or later.

ID	Name	Container format	Maximum video bitrate (Kbit/s)	Maximum audio bitrate (Kbit/s)	Resolution - width (pixels)	Remarks
S00000001-100010	M3U8-LD	M3U8	400	64	640	This template can be used only on web browsers, iPhone 4 and newer devices, iPads, and devices that run Android 3.0 or later.
S00000001-200070	MP4-4K	MP4	6,000	160	3840	This template can be used only on web browsers, iOS devices, and Android devices.
S00000001-200060	MP4-2K	MP4	3,500	160	2048	This template can be used only on web browsers, iOS devices, and Android devices.
S00000001-200040	MP4-FHD	MP4	3,000	160	1920	This template can be used only on web browsers, iOS devices, and Android devices.

ID	Name	Container format	Maximum video bitrate (Kbit/s)	Maximum audio bitrate (Kbit/s)	Resolution - width (pixels)	Remarks
S00000001-200030	MP4-HD	MP4	1,800	128	1280	This template can be used only on web browsers, iOS devices, and Android devices.
S00000001-200020	MP4-SD	MP4	800	80	848	This template can be used only on web browsers, iOS devices, and Android devices.
S00000001-200010	MP4-LD	MP4	400	64	640	This template can be used only on web browsers, iOS devices, and Android devices.

- Templates for container format conversion

Templates for container format conversion are used only to convert the container format of media files. Operations that require encoding, such as watermarking, editing, and merging of media files, are not supported.

ID	Name	Container format
S00000001-000000	FLV-COPY	FLV
S00000001-100000	M3U8-COPY	M3U8
S00000001-200000	MP4-COPY	MP4

Note Container format conversion may fail due to the invalid source or format of the input media file. In this case, transcoding jobs that use the container format conversion template may fail.

- Audio transcoding templates

The output audio files are in the MP3 format. The bitrate of the output audio file cannot be greater than the maximum bitrate described in the following table.

ID	Name	Container format	Maximum bitrate (Kbit/s)
S00000001-300050	MP3-320	MP3	320
S00000001-300040	MP3-192	MP3	192
S00000001-300030	MP3-160	MP3	160
S00000001-300020	MP3-128	MP3	128
S00000001-300010	MP3-64	MP3	64

- Resolution enhancement templates

The resolution of the output video is twice the original video resolution. If the width of the output video is greater than the maximum width described in the following table, the maximum width is used and the height is scaled based on the original aspect ratio.

ID	Name	Container format	Maximum video bitrate (Kbit/s)	Maximum audio bitrate (Kbit/s)	Resolution - width (pixels)	Remarks
S00000001-400070	MP4-2KT o4K	MP4	20,000	128	3,840	This template can be used only on web browsers, iOS devices, and Android devices.
S00000001-400040	MP4-SDT oHD	MP4	6,000	128	1,280	This template can be used only on web browsers, iOS devices, and Android devices.

Intelligent preset templates

The bitrates and resolutions of videos transcoded by using intelligent preset templates must be within the ranges described in the following table.

ID	Name	Container format	Bitrate range (Kbit/s)	Resolution range
S00000000-000050	FLV-FHD	FLV	[2,000, 4000]	[720p, 1080p]
S00000000-000040	FLV-HD	FLV	[1,000, 2,000]	≥ 576p
S00000000-000030	FLV-SD	FLV	[500, 1,000]	≥ 480p
S00000000-000020	FLV-LD	FLV	≤ 500	≥ 270p
S00000000-100050	M3U8-FHD	M3U8	[2,000, 4000]	[720p, 1080p]
S00000000-100040	M3U8-HD	M3U8	[1,000, 2,000]	≥ 576p
S00000000-100030	M3U8-SD	M3U8	[500, 1,000]	≥ 480p
S00000000-100020	M3U8-LD	M3U8	≤ 500	≥ 270p
S00000000-200050	MP4-FHD	MP4	[2,000, 4000]	[720p, 1080p]
S00000000-200040	MP4-HD	MP4	[1,000, 2,000]	≥ 576p
S00000000-200030	MP4-SD	MP4	[500, 1,000]	≥ 480p
S00000000-200020	MP4-LD	MP4	≤ 500	≥ 270p

 **Note** The analysis on intelligent preset templates must be complete on the MPS server before you submit transcoding jobs that use intelligent preset templates. Call the [SubmitAnalysisJob](#) operation to submit an intelligent preset template analysis job before you transcode an Object Storage Service (OSS) file. Then, call the [QueryAnalysisJobList](#) operation to obtain the intelligent preset templates that you can use to transcode the OSS file.

Naming rules for preset template IDs

Character sequence number	Description
1	The uppercase letter S.
2~9	The string generated by the system.
10	The hyphen (-).
11	The category to which the template belongs.
12-15	The sequence number of the template.
16	The minor version of the template.

17.4. Supported formats

This topic describes the formats of input and output media files supported by ApsaraVideo Media Processing (MPS).

Input file formats

- Container formats
3GP, AVI, FLV, MP4, M3U8, MPG, ASF, WMV, MKV, MOV, TS, WebM, and MXF
- Video encoding formats
H.264/AVC, H.263, H.263+, MPEG-1, MPEG-2, MPEG-4, MJPEG, VP8, VP9, QTFF, RealVideo, and Windows Media Video
- Audio encoding formats
AAC, AC-3, ADPCM, AMR, DSD, MP1, MP2, MP3, PCM, RealAudio, and Windows Media Audio

Output file formats

- Container formats
Video transcoding formats
Default format for PCs: FLV
Default format for Android: MP4
Default format for iOS: M3U8 (TS)
Supported formats: FLV, MP4, TS, M3U8, GIF, and MPD
Audio transcoding formats
MP3, MP4, OGG, and FLAC
- Video encoding formats
Default format: H.264/AVC
Supported formats: H.264/AVC and H.265/HEVC
- Audio encoding formats
Default format: AAC

Supported formats: MP3, AAC, VORBIS, and FLAC

17.5.

InputFile	String		Workflow triggering rules for media files
PipelineId	String		
MessageType	String		
QueueName	String		
TopicName	String		
RoleName	String		
Outputs	String		Parameter details
OutputBucket	String		
OutputLocation	String		
MultiBitrateVideoStream	String		Parameter details
ExtXMedia	String		Parameter details
WebVTTSubtitleURL	String		
Representation	String		Parameter details
InputConfig	String		Parameter details

SnapshotConfig	String		- Parameter details
MediaCover	String		
KeepOnlyHighestDefinition	String		
PublishType	String		? Note
Output	String		? Note
Protocol	String		
GroupId	String		
AdaptationSet	String		- Parameter details

GroupId	String		• •
AdaptationSet	String		• Parameter details •
AdaptationSet	String		• Parameter details •
MasterPlaylist	String		• Parameter details •

17.6. Workflow triggering rules for media files

Workflow triggering rule based on file path

Check the path to which input media files are added. If the file path contains the string specified for the workflow triggering rule, the workflow is triggered. For example, the following section describes whether the workflow can be triggered when `http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/C/test1.flv` is specified for the workflow triggering rule.

1. When a media file is added to `http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/C/`, the workflow is triggered.
2. When a media file is added to `http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/`, the workflow is triggered.
3. When a media file is added to `http://bucket.oss-cn-hangzhou.aliyuncs.com/A/`, the workflow is triggered.
4. When a media file is added to `http://bucket.oss-cn-hangzhou.aliyuncs.com/`, the workflow is triggered.
5. When `test.flv` is added to `http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/C/`, the workflow is triggered.
6. When a media file is added to `http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/CC/`, the workflow is not triggered.
7. When a media file is added to `http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B2/`, the workflow is not triggered.
8. When a media file is added to `http://bucket.oss-cn-hangzhou.aliyuncs.com/A2/B/C/`, the workflow is not triggered.

Note The file path specified in a workflow triggering rule cannot be contained in another rule. Otherwise, multiple workflows may be triggered when a media file is added to the specified path. For example, if you specify the test folder for the first workflow triggering rule and the test1 folder for the second workflow triggering rule, the two workflows are triggered when a media file is added to the test1 folder.

Workflow triggering rule based on file name extension

Only multimedia files can trigger workflows. ApsaraVideo Media Processing (MPS) determines whether to trigger a workflow by checking the file name extensions. Therefore, workflows can be triggered only for files whose names do not contain a period (.) in front of a file name extension and files with a file name extension described in the following table.

Note For SWF files, the snapshot and transcoding features may not deliver optimal performance.

Type	Supported file name extensions
Video	.3gp, .asf, .avi, .dat, .dv, .flv, .f4v, .gif, .m2t, .m3u8, .m4v, .mj2, .mjpeg, .mkv, .mov, .mp4, .mpe, .mpg, .mpeg, .mts, .ogg, .qt, .rm, .rmvb, .swf, .ts, .vob, .wmv, and .webm
Audio	.aac, .ac3, .acm, .amr, .ape, .caf, .flac, .m4a, .mp3, .ra, .wav, .wma, and .aiff

17.7. URL encoding

Before you submit transcoding jobs to ApsaraVideo Media Processing, you must perform URL encoding on the file path where your file resides. Otherwise, you may fail to locate the file that you want to transcode. This topic describes the URL encoding method for ApsaraVideo Media Processing.

URL encoding method

ApsaraVideo Media Processing conforms with the RFC2396 specification for UTF-8 URL encoding. For example, `Alibaba Cloud/mts HD +.mp4` is encoded as `Alibaba%20Cloud/mts%20HD%2B.mp4`. For more information, see [RFC2396](#).

Comparison between URL encoding standards

ApsaraVideo Media Processing conforms with the RFC2396 specification for URL encoding. Characters such as spaces and plus signs (+) are encoded differently based on the implemented specification, as shown in the following examples:

Encoding specification	Space (' ')	Plus sign ('+')
------------------------	---------------	-------------------

Encoding specification	Space (' ')	Plus sign ('+')
x-www-form-urlencoded	'+'	'%2B' Note Spaces are encoded as plus signs in x-www-form-urlencoded to indicate connections. Therefore, plus signs must be escaped.
RFC1738	'%20'	'+'
RFC2396	'%20'	'%2B' Note The plus sign is a reserved word in RFC2396 and therefore must be escaped.
RFC3986	'%20'	'%2B'

Note mark is a reserved word in RFC3986 and therefore must be escaped. mark does not need to be escaped in RFC2396.

18.Data types

You can view the following data types.

AliyunProperties

Attribute type

Name	Type	Description
Format	AliyunFormatInfo	Format information.
Streams	AliyunStreamsInfo	Streaming information.

AliyunFormatInfo

Format information type

Name	Type	Description
NumStreams	String	Total number of media streams
NumPrograms	String	Total number of program streams
FormatName	String	Brief name of the container/encapsulation format
FormatLongName	String	Long name of the container/encapsulation format
StartTime	String	Start time
Duration	String	Total time
Size	String	File size
Bitrate	String	Total bit rate

AliyunStreamsInfo

Stream information type

Name	Type	Description
VideoStreamList	AliyunVideoStream[]	Video stream list
AudioStreamList	AliyunAudioStream[]	Audio stream list
SubtitleStreamList	AliyunSubtitleStream[]	Subtitle stream list

AliyunVideoStream

Video stream information type

Name	Type	Description
Index	String	Video stream number, used to identify the position of the video stream in the whole media streams
CodecName	String	Brief name of the encoding format
CodecLongName	String	Long name of the encoding format
Profile	String	Encoding preset
CodecTimeBase	String	Encoding time baseEncoding time base.
CodecTagString	String	Mark text of the encoding format
CodecTag	String	Encoding format mark
Width	String	Video resolution width, numbers.
Height	String	Video resolution height
HasBFrames	String	Whether the video has B frames
Sar	String	Encoding signal resolution ratio.
Dar	String	Encoding display resolution ratio
PixFmt	String	Pixel format
Level	String	Encoding level
Fps	String	Frame rate, number.
AvgFPS	String	Average frame rate
Timebase	String	Time base
StartTime	String	Start time
Duration	String	Time length
Bitrate	String	Bit rate
NumFrames	String	Total number of frames

Name	Type	Description
Lang	String	Language. For more information, see FFmpeg language definition and ISO-639 .
Rotate	String	Video rotation angle

AliyunAudioStream

Audio stream information type

Name	Type	Description
Index	String	Audio stream number, used to identify the position of the audio stream in the whole media streams
CodecName	String	Brief name of the encoding format
CodecLongName	String	Long name of the encoding format
CodecTimeBase	String	Encoding time base
CodecTagString	String	Mark text of the encoding format
CodecTag	String	Encoding format mark
SampleFmt	String	Sample format
Samplerate	String	Sampling rate
Channels	String	Number of audio channels
ChannelLayout	String	Audio channel output layout
Timebase	String	Time base
StartTime	String	Start time
Duration	String	Time length
Bitrate	String	Bit rate
NumFrames	String	Total number of frames

Name	Type	Description
Lang	String	Language. For more information, see FFmpeg language definition and ISO-639 .

AliyunSubtitleStream

Subtitle stream information type

Name	Type	Description
Index	String	Subtitle stream number, used to identify the position of the subtitle stream in the whole media streams
Lang	String	Language. For more information, see FFmpeg language definition and ISO-639 .

AliyunTemplate

Transcoding template type

Name	Type	Description
Id	String	Transcoding template ID
Name	String	Template name
Container	AliyunContainer	Container
Audio	AliyunAudioCodec	Audio codec configurations
Video	AliyunVideoCodec	Video codec configurations
TransConfig	AliyunTransConfig	General transcoding configurations
MuxConfig	AliyunMuxConfig	Transcoding encapsulation configurations
State	String	Template status, which has the following options: Normal and Deleted.

AliyunContainer

Container type

Name	Type	Description
Format	String	Container format. Supported formats are FLV, MP4, TS, M3U8, GIF, MP3, OGG, and FLAC.

AliyunAudioCodec

Audio codec configuration type

Name	Type	Description
Codec	String	Audio codec format. - Supported formats are AAC, MP3, Vorbis, and FLAC. - Default value: aac
Profile	String	Audio encoding preset. If Codec is set to aac, Profile has the following options: aac_low, aac_he, aac_he_v2, aac_ld, and aac_eld
Samplerate	String	Sampling rate, - which has the following options: 22050, 32000, 44100, 48000, and 96000. - Unit: Hz. - Default Value: 44100.
Bitrate	String	Audio bit rate of the output file. - Value range: [8,1000] - Unit: Kbps - Default Value: 128
Channels	String	Number of audio channels, - which has the following options: 1, 2, 3, 4, 5, 6, 7, and 8. - Default Value: 2

AliyunVideoCodec

Video codec configuration type

Name	Type	Description
Codec	String	Codec format, • which has the following options: H.264, and H. 265. • Default Value: H. 264
Profile	String	Encoding level, which has the following options: baseline, main, and high. • baseline: applicable to mobile devices. • main: applicable to SD devices. • high: applicable to HD devices. • Default Value: high
Bitrate	String	Average video bit rate. • Default Value: [10,50000] • Unit: Kbps
Crf	String	Bit rate, which is a quality control factor. • Value range: [0,51] • Default Value: 26 • If CRF is set, the setting of Bitrate becomes invalid.
Width	String	Width. • Value range: [128,4026] • Unit: Px • Default value: Original video width.
Height	String	Height. • Value range: [128,4026] • Unit: Px • Default value: Original video height

Name	Type	Description
Fps	String	Frame rate. • Value range: (0, 60] • If the frame rate of the input file is greater than 60, 60 is used. • Default value: frame rate of the input file.
Gop	String	Maximum number of frames between two key frames. • Value range: [1, 1080000] • Default value: 250
Preset	String	Video algorithm preset, • which has the following options: veryfast, fast, medium, slow, and slower. • Default value: medium
ScanMode	String	Scan mode, which has the following options: interlaced and progressive.
Bufsize	String	Size of the buffer area. • Value range: [1000,128000] • Unit: Kb • Default value: 6000
Maxrate	String	Peak video bit rate. • Default value: [10,50000] • Unit: Kbps
BitrateBnd	AliyunBitrateBnd	Range of the average video bit rate.
PixFmt	String	Video color format. The value options are standard color formats, such as yuv420p and yuvj420p.

AliyunTransConfig

General transcoding configuration type

Name	Type	Description
TransMode	String	Transcoding mode, • which has the following options: onepass, twopass, and CBR. • Default value: onepass

AliyunBitrateBnd

Range of the average bit rate

Name	Type	Description
Max	String	Maximum total bit rate. • Value range: [10,50000] • Unit: Kbps
Min	String	Minimum total bit rate. • Value range: [10, 50000] • Unit: Kbps

AliyunOSSFile

OSS file type

Name	Type	Description
Bucket	String	OSS bucket, which can contain 3 to 63 bytes.
Location	String	OSS service region, up to 64 bytes.
Object	String	OSS object, up to 1024 bytes.

Aliyunjob

Task

Name	Type	Description
JobId	String	Task ID
Input	AliyunJobInput	Task input.

Name	Type	Description
Output	AliyunOutput	Task output.
State	String	Task status, • Submitted indicates that the task is submitted, • Transcoding indicates that the task is being transcoded, • Transcodesuccess said transcoding success, • TranscodeFail indicates that the transcoding fails, • and TranscodeCancelled indicates that transcoding is canceled.
Code	String	Error code of transcoding failure.
Message	String	Message of transcoding failure.
Percent	String	Transcoding progress. Value range: [0, 100].
UserData	String	Custom data.
PipelineId	String	MPS queue ID.
CreationTime	String	Time of adding the task.
MNSMessageResult	AliyunMNSMessageResult	Message result sent by Message Service to notify the user of task completion.

AliyunJobInput

Transcoding task input type

Name	Type	Description
Bucket	String	OSS bucket of the input task, which can contain 3 to 63 bytes.
Location	String	OSS service region, up to 64 bytes.
Object	String	OSS object of the of the input task, up to 1024 bytes.

Name	Type	Description
Audio	AliyunInputAudio	Configurations of the audio in the source transcoding media.
Container	AliyunInputContainer	Configurations of the transcoding source media container.

AliyunInputContainer

Source media container configuration type.

 **Note** If the input file is in ADPCM or PCM format, this parameter is required.

Name	Type	Description
Format	String	Source media audio format, • which has the following options: alaw, f32be, f32le, f64be, f64le, mulaw, s16be, s16le, s24be, s24le, s32be, s32le, s8, u16be, u16le, u24be, u24le, u32be, u32le, and u8.

AliyunInputAudio

Source media audio configuration type.

 **Note** If the input file is in ADPCM or PCM format, this parameter is required.

Name	Type	Description
Channels	String	Number of source media audio channels. Value range: [1,8]
Samplerate	String	Source media audio sampling rate. • Value range: [0,320000]. • Unit: Hz.

AliyunOutput

Task output type

Name	Type	Description
OutputFile	AliyunOSSFile	Output file.
Templateld	String	Template ID.
WaterMarkList	AliyunWaterMark[]	Watermark list.
Clip	AliyunClip	Video clip
Rotate	String	Video rotation angle. Value range: [0,360)
Properties	AliyunProperties	Media properties.
Priority	String	Task priority in the MPS queue. - Value range: [1, 10] - Highest priority: 10 - Default value: 6
Container	AliyunContainer	Container. If this parameter is set, the parameter setting replaces the AliyunContainer setting of the template specified by the Templateld.
Video	AliyunVideoCodec	Video configuration. If this parameter is set, the parameter setting replaces the AliyunVideoCodec setting of the template specified by the Templateld.
Audio	AliyunAudioCodec	Audio configuration. If this parameter is set, the parameter setting replaces the AliyunAudioCodec setting of the template specified by the Templateld.
TransConfig	AliyunTransConfig	General transcoding configuration. If this parameter is set, the parameter setting replaces the AliyunTransConfig setting of the template specified by the Templateld.

Name	Type	Description
MuxConfig	AliyunMuxConfig	Transcoding encapsulation configurations. If this parameter is set, the parameter setting replaces the AliyunMuxConfig setting of the template specified by the TemplateId.
UserData	String	Custom data.

AliyunClip

Editing type

Name	Type	Description
TimeSpan	AliyunTimeSpan	Edited time period.

AliyunTimeSpan

Edited time period type

Name	Type	Description
Seek	String	Start time.
Duration	String	Duration.
End	String	Truncation time at the end. - For example, 5.23 indicates that the 5.23 seconds at the end will be cut. - If this parameter is set, the Duration parameter becomes invalid.

AliyunMuxConfig

Encapsulation configuration type

Name	Type	Description
Segment	AliyunSegment	Slice configurations.

AliyunSegment

Slice configuration type

Name	Type	Description
Duration	String	Slice length. • Value range: [1,60] • Unit: seconds

AliyunJobResult

Task result submission type

Name	Type	Description
Success	String	Whether the task is successfully submitted. The following options are available: true or false.
Code	String	Error code displayed when the task fails to be created.
Message	String	Error message displayed when the task fails to be created.
Job	AliyunJob	Task. If the task fails to be submitted, the task ID is not generated.

AliyunWaterMark

Task output type

Name	Type	Description
InputFile	AliyunOSSFile	Watermark input file.
WaterMarkTemplateId	String	Watermark template ID.

AliyunWaterMarkTemplate

Watermark template type

Name	Type	Description
Id	String	Watermark template ID.
Name	String	Watermark template name.
Width	Number	Width. • Value range: [8,4096] • Unit: Px

Name	Type	Description
Height	Number	Height. • Value range: [8,4096] • Unit: Px
DX	Number	Horizontal offset. • Value range: [-4096,4096] • Unit: Px
Dy	Number	Vertical offset. • Value range: [-4096,4096] • Unit: Px
ReferPos	String	Watermark position, • which has the following options: TopRight, TopLeft, BottomRight, and BottomLeft.
Type	String	Watermark type, which has the following options: Image and Text.  Note Currently, only the Image type is supported.
State	String	Watermark template status, which has the following options: Normal and Deleted.

AliyunPipeline

MPS queue type

Name	Type	Description
Id	String	MPS queue ID.
Name	String	MPS queue name.

Name	Type	Description
Speed	String	MPS queue type, • which has the following options: Boost, Standard, NarrowBandHDV2, AIVideoCover, AIVideoRecogni, AIVideoSummary, AIVideoPorn, AIAudioKWS, and AIAudioASR. • Default value: Standard
State	String	MPS queue status, which has the following options: Active and Paused. • Active: Tasks in the MPS queue will be scheduled, transcoded, and run by Media Transcoding. • Paused: The MPS queue is paused, and tasks in the MPS queue will not be scheduled, transcoded, and run by Media Transcoding. The status of all tasks in the MPS queue is Submitted. Ongoing transcoding tasks are not paused.
NotifyConfig	String	Message Service notification configurations.

AliyunMediaInfoJob

Media information analysis task type

Name	Type	Description
Id	String	Metadata analysis task ID.
Input	AliyunOSSFile	Task input.
State	String	Job status, which has the following options: Analyzing, Success, and Fail.
Code	String	Error code displayed when the metadata analysis fails.
Message	String	Error message displayed when the metadata analysis fails.
Properties	AliyunProperties	Properties.

Name	Type	Description
UserData	String	Custom data.
CreationTime	String	Time of adding the task.

AliyunAnalysisJob

Template analysis task type

Name	Type	Description
Id	String	Template analysis task ID.
Input	AliyunOSSFile	Task input.
AnalysisConfig	AliyunAnalysisConfig	Task configurations.
TemplateList	AliyunTemplate[]	List of preset task output templates.
State	String	Task status, which has the following options: Submitted, Analyzing, Success, and Fail
Code	String	Error code displayed when the analysis fails.
Message	String	Error message displayed when the analysis fails.
Percent	String	Transcoding progress. Value range: [0, 100].
Priority	String	Task priority in the MPS queue. - Value range: [1, 10] - Highest priority: 10 - Default value: 10.
UserData	String	Custom data.
PipelineId	String	MPS queue ID.
CreationTime	String	Time of adding the task.
MNSMessageResult	AliyunMNSMessageResult	Result sent by Message Service to notify the user of task completion.

AliyunSnapshotJob

Screenshot task type

Name	Type	Description
Id	String	Screenshot task ID.
Input	AliyunOSSFile	Task input.
SnapshotConfig	AliyunSnapshotConfig	Screenshot configuration.
Count	String	Number of screenshots.
State	String	Screenshot status, which has the following options: Analyzing, Success, and Fail.
Code	String	Error code displayed when the analysis fails.
Message	String	Error message displayed when the analysis fails.
UserData	String	Custom data.
MNSMessageResult	AliyunMNSMessageResult	Result sent by Message Service to notify the user of task completion.

AliyunSnapshotConfig

Screenshot configurations

Name	Type	Description
OutputFile	String	Screenshot output OSS configurations.
TileOutputFile	String	Output OSS configurations of tile task.
Time	String	Screenshots start time. Unit: milliseconds.
Interval	String	Time interval of screenshots. • If this parameter is set, screenshots are taken at intervals. The value must be greater than 0. • Unit: seconds • Default value: 10.

Name	Type	Description
Num	String	Number of screenshots. If this parameter is set, screenshots are taken at intervals.
Width	String	Width of the screenshot output image. Value range: [8,4096]
Height	String	Width of the screenshot output image. Value range: [8,4096]
FrameType	String	Type of screenshots, which has the following options: • normal: indicates normal frame, • intra: indicates I frames. Default value: intra
TileOut	String	Tile configuration.

AliyunFailReason

Failure cause type

Name	Type	Description
Code	String	Error code displayed upon failure.
Message	String	Error message displayed upon failure.

AliyunMNSMessageResult

Type of Message Service notifications of user's task completion result

Name	Type	Description
ErrorCode	String	Error code displayed upon failure.
ErrorMessage	String	Error message displayed upon failure.
MessageId	String	ID of the success message.

Activity

Media workflow activity

Name	Type	Description
Name	String	Media workflow activity name,  Note which is unique in the same workflow.
Type	String	Media workflow activity type, which has the following options: Start, Snapshot, Transcode, Analysis, and Report.
JobId	String	Task ID (for example, analysis task ID, transcoding task ID, and screenshot task ID) that is generated when the activity is run.
State	String	Status, which has the following options: Running, Success, Fail, and Skipped. • Skipped indicates that the activity is skipped. • For example, HD or SD transcoding activity is run after the analysis activity. The system determines to run which activity based on the actual conditions. If the resolution of the original video is low, the HD transcoding activity may be skipped.
StartTime	String	Start time of running the activity
EndTime	String	End time of running the activity
Code	String	Error code. An error code is returned if the activity status is Fail.
Message	String	Error message. An error message is returned if the activity status is Fail.

MediaWorkflow

Media workflow

Name	Type	Description
MediaWorkflowId	String	Media workflow ID.
Name	String	Media workflow name.
Topology	String	Topology of the media workflow.
State	String	Status, which has the following options: Inactive, Active, and Deleted.
CreationTime	String	Creation time.

InputFile

Input file

Name	Type	Description
Bucket	String	OSS Bucket
Location	String	OSS Location
Object	String	OSS Object

MediaWorkflowExecutionInput

Input of a media workflow execution instance

Name	Type	Description
InputFile	InputFile	Input file of the media workflow.
UserData	String	Custom data.

MediaWorkflowExecution

Media workflow execution instance

Name	Type	Description
RunId	String	Execution instance ID.
Input	MediaWorkflowExecutionInput	Input of the media workflow.
MediaWorkflowId	String	Media workflow ID.
Name	String	Media workflow name.

Name	Type	Description
MediaId	String	Media ID. All information generated by the media workflow belongs to this media ID.
ActivityList	Activity	List of media workflow activities.
State	String	Status, • which has the following options: Running, Completed, and Fail. • Completed only indicates that the execution of workflow completes. Whether each activity (such as Transcode or Screenshot) is successful depends on the specific status value of each activity.
CreationTime	String	Creation time.

MediaInfo

Attribute type

Name	Type	Description
Format	FormatInfo	Format information.
Streams	StreamsInfo	Streaming information.

FormatInfo

Container and general information type

Name	Type	Description
NumStreams	String	Total number of media streams.
NumPrograms	String	Total number of program streams.
FormatName	String	Brief name of the container/encapsulation format.
FormatLongName	String	Long name of the container/encapsulation format
StartTime	String	The start time.

Name	Type	Description
Duration	String	Total time.
Size	String	File size.
Bitrate	String	Total bit rate.

StreamsInfo

Stream information type

Name	Type	Description
VideoStreamList	VideoStream[]	Video stream list, containing up to four video streams.
AudioStreamList	AudioStream[]	Audio stream list, containing up to four audio streams.
SubtitleStreamList	SubtitleStream[]	Subtitle stream list, containing up to four subtitle streams.

VideoStream

Video stream information type

Name	Type	Description
Index	String	Video stream number, used to identify the position of the video stream in the whole media streams.
CodecName	String	Brief name of the encoding format.
CodecLongName	String	Long name of the encoding format.
Profile	String	Encoding preset.
CodecTimeBase	String	Encoding time base.
CodecTagString	String	Mark text of the encoding format.

Name	Type	Description
CodecTag	String	Encoding format mark.
Width	String	Video resolution width, numbers.
Height	String	Video resolution height.
HasBFrames	String	Whether the video has B frames.
Sar	String	Encoding signal resolution ratio.
Dar	String	Encoding display resolution ratio.
PixFmt	String	Pixel format.
Level	String	Encoding level.
Fps	String	Target frame rate.
AvgFPS	String	Average frame rate.
Timebase	String	Time base.
StartTime	String	The start time.
Duration	String	Time length.
NumFrames	String	Total number of frames.
Lang	String	Language.
NetworkCost	NetworkCost	Network bandwidth consumption.

NetworkCost

Video network bandwidth consumption type

Name	Type	Description
PreloadTime	String	Preload time.
CostBandwidth	String	Maximum bandwidth consumption.
AvgBitrate	String	Average bit rate.

AudioStream

Audio stream information type

Name	Type	Description
Index	String	Audio stream number, used to identify the position of the audio stream in the whole media streams.
CodecName	String	Brief name of the encoding format.
CodecLongName	String	Long name of the encoding format.
CodecTimeBase	String	Encoding time base.
CodecTagString	String	Mark text of the encoding format.
CodecTag	String	Encoding format mark.
SampleFmt	String	Sample format.
Samplerate	String	Sampling rate.
Channels	String	Number of audio channels.
ChannelLayout	String	Audio channel output layout.
Timebase	String	Time base.
StartTime	String	The start time.
Duration	String	Time length.
Bitrate	String	Bit rate.
NumFrames	String	Total number of frames.
Lang	String	Language.

SubtitleStream

Subtitle stream information type

Name	Type	Description
Index	String	Subtitle stream number, used to identify the position of the subtitle stream in the whole media streams.
Lang	String	Language.

Media

Media

Name	Type	Description
MediaId	String	Media ID.
File	File	Original file.
Title	String	Title.
Description	String	Description.
CatId	String	Category ID.
CateName	String	Category name.
Tags	String[]	Tag list.
RiskFactor	String	Risk factors. • Value range: [0,1]. • A higher value of risk factor indicates a higher possibility of involvement in pornography and violence. • The recognition accuracy reaches 80%.
CoverURL	String	Cover URL.
PublishState	String	Media publishing status, indicating whether to publish the media. The options are as follows: • Initiated (initial state), • UnPublish (not published, and the OSS playback file permission is Private), • Published (published, and the OSS playback file permission is Default), • and Deleted (deleted).
RunIdList	String[]	Media task stream list.
CreationTime	String	Creation time.
Duration	String	Time length.
Format	String	Format.

Name	Type	Description
Size	String	Size.
Bitrate	String	Bit rate.
Fps	String	Frame rate.
Width	String	Width.
Height	String	Height.
PlayList	Play[]	Playlist.
SnapshotList	Snapshot[]	Screenshot list
MediaInfo	MediaInfo	Media information.

Category

Category

Name	Type	Description
CatId	String	Category ID.
ParentId	String	Parent node ID. The value of the top-level node is -1.
CateName	String	Category name.
Level	String	Level. The top-level node value is 0.

File

File

Name	Type	Description
URL	String	File URL.
State	String	File status, which has the following options: Normal and Deleted.

Play

Playback information

Name	Type	Description
MediaWorkflowId	String	ID of the workflow that generates the playback file.
MediaWorkflowName	String	Workflow that generates the playback file.
ActivityName	String	Media workflow activity name.
Duration	String	Time length.
Format	String	Format.
Size	String	Size.
Bitrate	String	Bit rate.
Fps	String	Frame rate.
Width	String	Width.
Height	String	Height.
File	File	Playback file.

Snapshot

Screenshot information

Name	Type	Description
MediaWorkflowId	String	ID of the workflow that generates the screenshot file.
MediaWorkflowName	String	Workflow that generates the screenshot file
ActivityName	String	The name of the workflow activity that generated the screenshot file.
File	File	Screenshot files.
Type	String	Snapshot type, which has the following options: Single and Sequence.
Count	Number	Number of screenshots. This parameter is valid only when Type is set to Sequence.

MediaBucket

Media bucket

Name	Type	Description
Bucket	String	The bucket name.
Type	String	Media bucket type, which has the following options: Input, and Output.

19.Fonts

Simplified Chinese-FZFangSong

Simplified Chinese-FZHei-B01S

Simplified Chinese-FZKai

Simplified Chinese-FZShuSong

Simplified Chinese-SimSun

Simplified Chinese-WenQuanYi Micro Hei

Simplified Chinese-WenQuanYi Zen Hei Mono

Simplified Chinese-WenQuanYi Zen Hei Sharp

Simplified Chinese-Microsoft YaHei

Simplified Chinese-Yuant i SC

Google Roboto Bold

Google Roboto

20.QuerySnapshotJobList

After screenshot tasks are submitted, Media Processing asynchronously takes screenshots. This API can be used to query the screenshot task results.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>QuerySnapshotJobList</i>
SnapshotJobIds	String	Yes	List of screenshot task IDs. A maximum of 10 screenshot task IDs can be entered.

Response parameters

Parameter	Type	Description
SnapshotJobList	AliyunSnapshotJob[]	List of screenshot tasks.
NotExistSnapshotJobIds	String[]	List of non-existing screenshot task IDs. If no data exists, this structure is not returned.

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?Action=QuerySnapshotJobList&SnapshotJobIds=88c6ca184c0e47098a5b665e2a126797&<Public parameter>
```

Response example

XML

```

<QuerySnapshotJobListResponse>
  <RequestId>
    25818875-5F78-4A13-BEF6-D7393642CA58
  </RequestId>
  <SnapshotJobList list="true">
    <SnapshotJob>
      <Id>88c6ca184c0e47098a5b665e2a126797</Id>
      <State>Success</State>
      <Code> </Code>
      <Message> </Message>
      <SnapshotConfig>
        <OutputFile>
          <Bucket>example-001</Bucket>
          <Location>oss-cn-hangzhou</Location>
          <Object>example.png</Object>
        </OutputFile>
        <Time>4</Time>
      </SnapshotConfig>
      <PipelineId>88c6ca184c0e47098a5b665e2a126797</PipelineId>
      <UserData>testid-001</UserData>
      <CreationTime>2014-01-10T12:00:00Z</CreationTime>
    </SnapshotJob>
  </SnapshotJobList>
</QuerySnapshotJobListResponse>

```

JSON

```

{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "SnapshotJobList": {
    "SnapshotJob": [{
      "Id": "88c6ca184c0e47098a5b665e2a126797",
      "State": "Success",
      "Code": "",
      "Message": "",
      "SnapshotConfig": {
        "OutputFile": {
          "Bucket": "example-001",
          "Location": "oss-cn-hangzhou",
          "Object": "example.png "
        },
        "Time": "5"
      },
      "PipelineId": "88c6ca184c0e47098a5b665e2a126797",
      "UserData": "testid-001",
      "CreationTime": "2014-01-10T12:00:00Z"
    }]
  }
}

```

21.AddWaterMarkTemplate

The AddWaterMarkTemplate API creates a watermark template.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>AddWaterMarkTemplate</i>
Name	String	Yes	Template name. Up to 128 bytes.
Config	String	Yes	Watermark template configuration. - JSON object. For details, see "5. WaterMarkConfig" in Parameters" of "Appendix." - Example: <pre>{ "Width": "10", "Height": "30", "Dx": "10", "Dy": "5", "ReferPos": "TopRight", "Type": "Image", "Timeline": {"Start": "0", "Duration": "10"}}</pre>

Response parameters

Parameter	Type	Description
WaterMarkTemplate	AliyunWaterMarkTemplate	Watermark template

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?Name=example-watermark&Config=%7B%22Width%22%3A%2210%22%2C%22Height%22%3A%2230%22%2C%22Dx%22%3A%2210%22%2C%22Dy%22%3A%225%22%2C%22ReferencePos%22%3A%22TopRight%22%2C%22Type%22%3A%22Image%22%7D%0A&Action=AddWaterMarkTemplate&<Public parameter>
```

Response example

XML

```
<AddWaterMarkTemplateResponse>
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
  <WaterMarkTemplate>
    <Id>88c6ca184c0e47098a5b665e2a126797</Id>
    <Name>example-watermark</Name>
    <Width>10</Width>
    <Height>30</Height>
    <Dx>10</Dx>
    <Dy>5</Dy>
    <ReferPos>TopRight</ReferPos>
    <Type>Image</Type>
    <State>Normal</State>
  </WaterMarkTemplate>
</AddWaterMarkTemplateResponse>
```

JSON

```
{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "WaterMarkTemplate": {
    "Id": "88c6ca184c0e47098a5b665e2a126797",
    "Name": "example-watermark",
    "Width": "10",
    "Height": "30",
    "Dx": "10",
    "Dy": "5",
    "ReferPos": "TopRight",
    "Type": "Image",
    "State": "Normal"
  }
}
```

22.SubmitSnapshotJob

The SubmitSnapshotJob API submits screenshot tasks.

 **Note** JPG images are supported currently.

- Synchronous mode: A screenshot result is synchronously returned over the API, and a screenshot is generated in the corresponding bucket during result returning.
- Asynchronous mode: A screenshot may not be generated when a screenshot result is returned over the API. The screenshot task queues at the background, and the screenshot is taken asynchronously. If either the Interval or Num parameter is set, the asynchronous mode is used.
- Message notification: If the PipelineId parameter is set, an asynchronous message is sent when a screenshot task is submitted.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>SubmitSnapshotJob</i>

Parameters	Type	Required or not	Description
Input	String	Yes	Task input. - JSON object. For the Input definition, see the glossary. - For example: <pre> { "Bucket": "example-bucket", "Location": "oss-cn-hangzhou", "Object": "example.flv" } </pre> For more information about using snapshot interface, see: Java-Snapshot Python-Snapshot PHP-Snapshot - The bucket permission must be granted to Media Transcoding in the console.
			Screenshot configuration. - SON object. For details, see “11. SnapshotConfig” in Parameters” of “Appendix.” - For example:

Parameters	Type	Required or not	Description. Synchronous mode:
SnapshotConfig	String	Yes	<pre> { "OutputFile" : { "Bucket": "example-001", "Location": "oss-cn-hangzhou", "Object": "example.jpg" }, "Time": "5" } </pre> Asynchronous mode: (start at 5 ms, one screenshot is taken per 20s, and 10 screenshots need to be taken): <pre> { "OutputFile" : { "Bucket": "example-001", "Location": "oss-cn-hangzhou", "Object": "{Count}.jpg" }, "Time": "5", "Num": "10", "Interval": "20" } </pre>
PipelineId	String	No	MPS queue ID. Ensure that the Media Processing queue is bound to an available message subject. Otherwise, the message cannot be properly sent.
UserData	String	No	Custom data. Up to 1,024 bytes.

Response parameters

Parameter	Type	Description
SnapshotJob	AliyunSnapshotJob	Screenshot task

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?Action=SubmitSnapshotJob&Input=%7b%22Bucket%22%3a%22example-bucket%22%2c%22Location%22%3a%22oss-cn-hangzhou%22%2c%22Object%22%3a%22example.flv%22%7d&SnapshotConfig=%7b%22OutputFile%22%3a%7b%22Bucket%22%3a%22example-001%22%2c%22Location%22%3a%22oss-cn-hangzhou%22%2c%22Object%22%3a%22example.jpg%22%7d%2c%22Time%22%3a%225%22%7d&PipelineId=88c6ca184c0e47098a5b665e2a126797<Public parameter>
```

Response example

XML

```
<SubmitSnapshotJobResponse>
  <RequestId>
    25818875-5F78-4A13-BEF6-D7393642CA58
  </RequestId>
  <SnapshotJob>
    <Id>88c6ca184c0e47098a5b665e2a126797</Id>
    <State>Success</State>
    <Code> </Code>
    <Message> </Message>
    <SnapshotConfig>
      <OutputFile>
        <Bucket>example-001</Bucket>
        <Location>oss-cn-hangzhou</Location>
        <Object>example.png</Object>
      </OutputFile>
      <Time>4</Time>
    </SnapshotConfig>
    <PipelineId>88c6ca184c0e47098a5b665e2a126797</PipelineId>
    <UserData>testid-001</UserData>
    <CreationTime>2014-01-10T12:00:00Z</CreationTime>
  </SnapshotJob>
</SubmitSnapshotJobResponse>
```

JSON

```
{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "SnapshotJob": {
    "Id": "88c6ca184c0e47098a5b665e2a126797",
    "State": "Success",
    "Code": "",
    "Message": "",
    "SnapshotConfig": {
      "OutputFile": {
        "Bucket": "example-001",
        "Location": "oss-cn-hangzhou",
        "Object": "example.png"
      },
      "Time": "5"
    },
    "PipelineId": "88c6ca184c0e47098a5b665e2a126797",
    "UserData": "testid-001",
    "CreationTime": "2014-01-10T12:00:00Z"
  }
}
```

Screenshot error codes

Error codes	Description	Detailed information
InvalidParameter.ResourceNotFound	The screenshot file cannot be found.	The resource operated cannot be found.
SnapshotTimeOut	The screenshot times out. If time-out occurs frequently in synchronous mode, we recommend that the asynchronous mode be used to prevent time-out. Retry is not recommended.	Snapshot times out.
InvalidParameter.ResourceContentBad	The screenshot file is damaged, or the screenshot fails to be taken because it does not meet the specifications.	The resource operated is broken.
EntityNotExist.Role	The role does not exist.	The role not exists.
PermissionDenied.ResourceAccess	The operation has no authorization.	MTS not authorized to operate on the specified resource.
InternalError	Internal unrecognized error.	The operation has failed due to some unknown error, exception or failure.

Error codes	Description	Detailed information
TransientNetWorkError	A temporary network error occurs during data download. Generally, you can recover the download by retry.	Snapshot fail,transient network error occurs, please retry again!

23.AddTemplate

The AddTemplate API creates a custom template, which includes the container information, and settings such as video and audio stream settings. If some information is not set in the template, bitstreams that are transcoded using the template do not contain such information.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>AddTemplate</i>
Parameter	String	Yes	Template name. Up to 128 bytes.
Container	String	No	Container. - JSON object. For details, see "7. Container" in "Parameters" of "Appendix." - Example: <pre>{ "Format": "mp4" }</pre>

Parameters	Type	Required or not	Description
Video	String	No	Video stream configuration. - JSON object. For details, see "8. Video" in "Parameters" of "Appendix." - Example: <pre>{ "Codec": "H.264", "Profile": "high", "Bitrate": "500", "Crf": "15", "Width": "256", "Height": "800", "Fps": "25", "GOP": "10" }</pre>  Note If the Video parameter is not set, video streams are not output after transcoding. If you want to retain the video, the Video parameter must be set.

Parameters	Type	Required or not	Description
Audio	String	No	Audio stream configuration. - JSON object. For details, see "10. Audio" in "Parameters" of "Appendix." - Example: <pre>{ "Codec": "aac", "Samplerate": "44100", "Bitrate": "500", "Channels": "2" }</pre>  Note If the Audio parameter is not set, audio streams are not output after transcoding. If you want to retain the audio, the Audio parameter must be set.
TransConfig	String	No	General transcoding configuration. - JSON object. For details, see "16. TransConfig" in "Parameters" of "Appendix." - Example: <pre>{ "TransMode": "onepass" }</pre>
MuxConfig	String	No	Encapsulation configuration - JSON object. For details, see "17. MuxConfig" in "Parameters" of "Appendix." - Example: <pre>{ "Segment": { "Duration": "12" } }</pre>

Response parameters

Parameter	Type	Description
Template	AliyunTemplate	Transcoding template

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?Container=%7B%22Format%22%3A%22mp4%22%7D&Video=%7B%22C
odec%22%3A%20%22H. 264%22%2C%22Profile%22%3A%20%22high%22%2C%20%22BitRate%22%3A%20%22500%EF
%BC%8C%22CRF%22%3A%20%2215%22%2C%20%22Width%22%3A%20%22256%22%2C%22Height%22%3A%20%22800%22
%2C%20%22FPS%22%3A%20%2225%22%2C%20%22GOP%22%3A%20%2210%22%20%7D&Audio=%7B%22Codec%22%3A%22
aac%22%2C%22SampleRate%22%3A%2244100%22%2C%20%22BitRate%22%3A%22500%22%2C%22Channels%22%3A%
22%22%7D%0A&Action=AddTemplate&<Public parameter>
```

Return example

XML

```
<AddTemplateResponse>
  <RequestId>017F1B2D-2B5B-4441-ABBA-E0DC08F5AFEC</RequestId>
  <Template>
    <Id>88c6ca184c0e47098a5b665e2a126799</Id>
    <Name>MTS-example</Name>
    <Container>
      <Format>mp4</Format>
    </Container>
    <Video>
      <Codec>H. 264</Codec>
      <Profile>high</Profile>
      <Bitrate>Auto</Bitrate>
      <Crf>15</Crf>
      <Width>256</Width>
      <Height>800</Height>
      <Fps>25</Fps>
      <Gop>10</Gop>
      <Preset>lower</Preset>
      <ScanMode></ScanMode>
      <Bufsize>6000</Bufsize>
      <Maxrate></Maxrate>
      <BitrateBnd>
        <Max></Max>
        <Min></Min>
      </BitrateBnd>
    </Video>
    <Audio>
      <Codec>aac</Codec>
      <Samplerate>44100</Samplerate>
      <Bitrate>500</Bitrate>
      <Channels>2</Channels>
    </Audio>
    <TransConfig>
      <TransMode>onepass</TransMode>
    </TransConfig>
    <State>Normal</State>
  </Template>
</AddTemplateResponse>
```

JSON

```
{
  "RequestId": "3E767BAD-9F4C-4FC8-9FAE-E3F4A639066B",
  "Template": {
    "Id": "88c6ca184c0e47098a5b665e2a126799",
    "Name": "MTS-example",
    "Container": {
      "Format": "mp4"
    },
    "Video": {
      "Codec": "H. 264",
      "Profile": "high",
      "Bitrate": "Auto",
      "Crf": "15",
      "Width": "256",
      "Height": "800",
      "Fps": "25",
      "Gop": "10",
      "Preset": "lower",
      "ScanMode": "",
      "Bufsize": "6000",
      "Maxrate": "500",
      "BitrateBnd": {
        "Max": "",
        "Min": ""
      }
    },
    "Audio": {
      "Codec": "aac",
      "Samplerate": "44100",
      "Bitrate": "500",
      "Channels": "2"
    },
    "TransConfig": {
      "TransMode": "onepass"
    },
    "State": "Normal"
  }
}
```

24.UpdatePipeline

The UpdatePipeline API updates an MPS queue. You can modify the name and notification settings and change the status of an MPS queue.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: <i>UpdatePipeline</i>
PipelineId	String	Yes	MPS queue ID.
Name	String	Yes	MPS queue name. Up to 128 characters.
State	String	Yes	MPS queue status, which can be Active and Paused. • Active: tasks in the MPS queue will be scheduled, transcoded, and executed by Media Processing. • Paused: The MPS queue is paused, and tasks in the MPS queue will not be scheduled, transcoded, and executed by Media Processing. The status of all tasks in the MPS queue is Submitted. Ongoing transcoding tasks are not paused.
NotifyConfig	String	No	Message Service configuration. Example: <pre>{ "Topic": "mts-topic-1" }</pre>
Role	String	No	Roles

