

Alibaba Cloud ApsaraVideo for Media Processing API Reference

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information 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.
	This warning information 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 restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK.
Courier font	It is used for commands.	Run the <code>cd /d C:/windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[] or [a b]	It indicates that it is a optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>switch {stand slave}</code>

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1 API overview

MediaInfo APIs

API	Description
SubmitMediaInfoJob	Submits a media information task.
QueryMediaInfoJobList	Queries information about MediaInfo tasks.

Preset smart template recommended APIs

API	Description
SubmitAnalysisJob	Intelligently analyzes the input file to recommend a preset template suitable for the input file.
QueryAnalysisJobList	Lists available preset templates.

Transcoding APIs

API	Description
SubmitJobs	Submits transcoding tasks.
CancelJob	Cancels transcoding tasks.
QueryJobList	Queries transcoding tasks in batches by transcoding task ID.
ListJob	Lists transcoding tasks by task status, creation time range, and transcoding MPS queue.

Custom transcoding template APIs

API	Description
AddTemplate	Creates a custom template.
UpdateTemplate	Updates custom template settings.
QueryTemplateList	Queries custom templates.
SearchTemplate	Searches for custom templates in the specified state.
DeleteTemplate	Deletes a custom template.

MPS queue APIs

API	Description
UpdatePipeline	Updates an MPS queue.
QueryPipelineList	Queries MPS queues.
SearchPipeline	Searches for MPS queues by MPS queue status.

Watermark template APIs

API	Description
AddWaterMarkTemplate	Creates a watermark template.
UpdateWaterMarkTemplate	Updates the name and configurations of a specified watermark template.
QueryWaterMarkTemplateList	Queries details about watermark templates by watermark template ID.
SearchWaterMarkTemplate	Searches for watermark templates in the specified state.
DeleteWaterMarkTemplate	Deletes a watermark template.

Screenshot APIs

API	Description
SubmitSnapshotJob	Submits screenshot tasks, currently supports jpg format.
QuerySnapshotJobList	Queries the screenshot task results.

Media workflow APIs

API	Description
AddMediaWorkflow	Adds a media workflow and defines the topology of the media workflow.
ActivateMediaWorkflow	Activates a media workflow.
DeactivateMediaWorkflow	Disables a media workflow.
DeleteMediaWorkflow	Deletes a media workflow.
UpdateMediaWorkflow	Updates the topology of a media workflow.

API	Description
<i>QueryMediaWorkflowList</i>	Queries registered media workflows.
<i>SearchMediaWorkflow</i>	Searches for media workflows.
<i>UpdateMediaWorkflowTriggerMode</i>	Update the trigger mode of media workflow.

Media workflow execution instance APIs

API	Description
<i>ListMediaWorkflowExecutions</i>	Lists all media workflow execution instances.
<i>QueryMediaWorkflowExecutionList</i>	Queries media workflow execution instances.

Media APIs

API	Description
<i>AddMedia</i>	Adds media.
<i>DeleteMedia</i>	Deletes media.
<i>UpdateMedia</i>	Updates media set basic information, such as the title, description, and category.
<i>UpdateMediaCategory</i>	Updates media categories.
<i>UpdateMediaCover</i>	Updates the media cover.
<i>AddMediaTag</i>	Adds a media tag.
<i>DeleteMediaTag</i>	Deletes a media tag.
<i>UpdateMediaPublishState</i>	Updates the status of media publishing.
<i>QueryMediaList</i>	Queries media sets by media IDs.
<i>QueryMediaListByURL</i>	Queries media sets by OSS file URLs.
<i>ListMedia</i>	Lists all media resources.

Media category APIs

API	Description
<i>AddCategory</i>	Adds a category.
<i>DeleteCategory</i>	Deletes a category.

API	Description
<i>UpdateCategoryName</i>	Update a category name.
<i>CategoryTree</i>	Retrieves a category tree.
<i>ListAllCategory</i>	Retrieves a category list.

Media bucket APIs

API	Description
<i>BindInputBucket</i>	Binds the library to the input media bucket.
<i>BindOutputBucket</i>	Binds the library to the output media bucket.
<i>ListAllMediaBucket</i>	Lists all the media buckets in the library.

2 Terms

Terms	Full name	Meaning	Description
OSS	Object Storage Service	Alibaba Cloud Object Storage Service	MPS transcodes the media files stored in OSS and stores the output files in the media bucket or output bucket.
Bucket	OSS Bucket	OSS Bucket	The bucket name can only contain lower-case letters , numbers, and hyphens (-). It must be a string of 3 to 255 bytes which starts with a lower-case letter or number.
Location	OSS Location	The OSS data center	See the OSS location definition.
Object	OSS Object	OSS object	See OSS documentation for the definition . The object name can contain a UTF-8 encoded string of 1 to 1,023 bytes. A leading forward slash (/) or backward slash (\) is not supported.
LocalFile	Local file	Local media files	Media file that is stored locally and has not yet been uploaded to OSS.
Input	Task input	Task input	Task input includes an input file and the input parameters for transcoding.

Terms	Full name	Meaning	Description
InputFile	Input file	Input file	After a local file is uploaded to OSS, the file is considered an input file.
Output	Task output	Task output	Task output contains a set of attributes such as the template ID, watermark list, and output file.
OutputFile	Output file	Output file	An output file is stored in OSS and uniquely identified by the output location, output bucket, and output object.
OutputBucket	Output bucket	Transcoding output Bucket	Bucket that stores the output file after transcoding . You must set this parameter when submitting a task during the OSS file transcoding process, and grant the output bucket write permission to Media Processing in the bucket authorization channel on the resource management page of the Media Processing console.

Terms	Full name	Meaning	Description
OutputLocation	Output location	Output location	A location of an output bucket in an OSS instance . You can set this parameter when you submit a task in the OSS file transcoding process.
Template	Transcoding template	Transcoding template	Custom template that contains a set of transcoding parameters, including audio , video, and container. Each template is identified by a unique ID.

Terms	Full name	Meaning	Description
PresetTemplate	Preset transcoding template	Preset transcoding template	An intelligent transcoding template inherent in Media Processing , which can be used to dynamically adjust the transcoding settings based on the features of an input file to obtain the optimal output file under specific bandwidth conditions. Not all preset templates are suitable for all input files. If you want to use a preset transcoding template, call the SubmitAnalysisJob API to trigger template analysis and call the QueryAnalysisJobList API to obtain a list of preset transcoding templates available for the input file. For a list of preset transcode templates supported by Media Processing, see “Preset transcode templates” in “Appendix.”

Terms	Full name	Meaning	Description
WaterMarkTemplate	Watermark template	Watermark template	A watermark consists of a variable parameter (watermark content) and a set of virtually unchanged parameters (watermark position, offset, and size). The latter parameters constitute a watermark template with a unique ID.
Job	Transcoding task	Transcoding task	A transcoding task consists of an input and an output. It is added to an MPS queue, where the tasks are scheduled by a scheduling engine to the transcoding system.
AnalysisJob	Analysis job	Analysis task	An analysis task consists of an input file and analysis settings. It is used to obtain an applicable preset template.
SnapshotJob	Screenshot task	Screenshot task	A screenshot task consists of an input file and screenshot settings. It is used to obtain a screenshot of the input file based on screenshot settings.

Terms	Full name	Meaning	Description
MediaInfoJob	MediaInfo task	MediaInfo task	A MediaInfo task is used to obtain the media information of the specified input file.
Pipeline	MPS queue	MPS queue	An MPS queue is a queue of tasks that can be scheduled by Media Processing to implement transcoding. If a large number of tasks exist in the MPS queue, they are queued up in waiting state. An MPS queue can be in active or suspended state. If it is in the suspended state, the queued tasks are not scheduled by Media Processing until the MPS queue enters the active state, but tasks with transcoding in progress are not affected.
MediaRepository	Media repository	Media repository	A media repository contains a full set of media.

Terms	Full name	Meaning	Description
Media	Media resource	Media resource	A media resource is the minimum management unit of the media repository. A media resource contains an input (a video or audio multimedia file) and all relevant outputs (such as the transcoded file and screenshot). A media resource has a unique ID (MediaId) and has a one-to-one mapping with an input file.
MediaWorkflow	Media workflow	Media workflow	A factory that produces media. A media workflow is a custom processing procedure starting when a multimedia file is received from the input bucket till the transcoded file is saved to the output bucket. Each media workflow is uniquely identified by a MediaWorkflowId.

Terms	Full name	Meaning	Description
Activity	Media workflow activity	Media workflow activity	The unit of composition of the media workflow . Activities are components of a media workflow. A media workflow can be represented by a directed acyclic graph where each node is considered an activity, which may be transcoding, screenshot taking , or metadata acquisition. Each activity has a unique name.
MediaWorkflowExecution	Media workflow execution instance	Media workflow execution instance	The execution of a media workflow is considered an instance. Each instance has a unique RunId.
MediaBucket	Media bucket	Media bucket	The media repository is associated with multiple media buckets that store media files . Media buckets are classified into input media bucket and output media bucket, which must be non-overlapping OSS buckets and independent of each other.

Terms	Full name	Meaning	Description
InputMediaBucket	Input media bucket	Input media bucket	After a multimedia file is added to an 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 executed.
OutputMediaBucket	Output media bucket	Output media bucket	The output media bucket stores the output file that is generated after a media workflow is executed.

3 APIs invoke

3.1 Request structure

Service address

For more information about the access addresses of the Media Processing APIs, see [Service region](#).

Communication protocols

Request communication over HTTP or HTTPS is supported. For higher security, we recommend that you send requests through HTTPS channels.

Request method

The system supports HTTP GET requests. In this mode, the request parameters must be included in the request URL.

Request parameters

For each request, the operation to be executed must be specified, namely the Action parameter. Each operation must contain the public request parameters and the specific request parameters of the specified operation.

Character encoding

Requests and responses are encoded using the UTF-8 character set.

3.2 Public parameters

Public request parameters

Public request parameters are the request parameters used by each API.

Parameters	Type	Required or not	Description
Format	String	No	Format of the return value, which can be JSON or XML (default).

Parameters	Type	Required or not	Description
Version	String	Yes	API version, in the format of YYYY-MM-DD. The current version is 2014-06-18.
AccessKeyId	String	Yes	Your Access Key ID issued by Alibaba Cloud.
Signature	String	Yes	Signature result string. For more information about the signature calculation method, see Signature mechanism .
SignatureMethod	String	Yes	Signature method. Currently, HMAC-SHA1 is supported.
Timestamp	String	Yes	Timestamp of a request. The date format follows the ISO8601 standard and uses the UTC time. The format is YYYY-MM-DDThh:mm:ssZ. Example : 2014-7-29T12:00:00Z (July 29, 2014 at 20:00:00, Beijing time).
SignatureVersion	String	Yes	Signature algorithm version. The current version is 1.0.

Parameters	Type	Required or not	Description
SignatureNonce	String	Yes	Unique random number, used to prevent replay attacks. You must use different random numbers for different requests.

Example

```
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=tkHh507431CgWayx  
&Timestamp=2014-07-29T09%3A22%3A32Z
```

Public return parameters

The system returns a unique identification code (RequestId) each time you send a request to call an API, no matter whether the call is successful or not.

XML example

```
<? xml version="1.0" encoding="UTF-8"? >  
  <!--Result root node-->  
  <API name+Response> <!--Returned request tag-->  
    <RequestId>4C467B38-3910-447D-87BC-AC049166F216</RequestId>  
    <!--Returned results-->  
  </API name+Response>
```

JSON example

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

3.3 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."
}
```

3.4 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.

- a. 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 `&`).

- b. 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... “
- 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.

- c. Connect the encoded parameter names and values with the equal sign (=).
 - d. 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](#).

3.5 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 UnsupportedEncodingException {
    return URLEncoder.encode(value, ENCODE_TYPE).replace("+", "%20").replace("*", "%2A").replace("%7E", "~");
}
private static String buildCanonicalizedQueryString(Map parameterMap) throws UnsupportedEncodingException {
    // 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 UnsupportedEncodingException {
    // 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 UnsupportedEncodingException, InvalidKeyException, NoSuchAlgorithmException {
    SecretKey key = new SecretKeySpec((keySecret + SEPARATOR).getBytes(ENCODE_TYPE), SignatureMethod.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 parameterM
ap) throws UnsupportedEncodingException {
// 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.getValue()));
}
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=kmDv4mWo806GWPjQMy2z
4VhBBDQ%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

4 MediaInfo APIs

4.1 SubmitMediaInfoJob

The SubmitMediaInfoJob API submits a media information task. Media Processing analyzes and synchronously returns the media information about your input file.

You can use the QueryMediaInfoJobList API to obtain the media information analysis result.

Request parameters

Parameter	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: SubmitMediaInfoJob
Input	String	Yes	Task input, which is a JSON object, for example: {"Bucket": "example-bucket", "Location": "oss-cn-hangzhou", "Object": "example.flv"}. The bucket permission must be granted to Media Transcoding in the console.
UserData	String	No	Custom data. Up to 1,024 bytes.

Response parameters

Parameter	Type	Description
MediaInfoJob	AliyunMediaInfoJob	MediaInfo task

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?Action=SubmitMediaInfoJob&Input
=%7B%22Bucket%22%3A%22example-bucket%22%2C%22Location%22%3A%22oss-cn
-hangzhou%22%2C%0A%22Object%22%3A%22example.flv%22%7D%0A&PipelineId=
88c6ca184c0e47098a5b665e2a126797<Public Parameters>
```

Response example

XML

```
<SubmitMediaInfoJobResponse>
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
  <MediaInfoJob>
    <JobId>88c6ca184c0e47098a5b665e2a126797</JobId>
    <Input>
      <Bucket>example-bucket</Bucket>
      <Location>oss-cn-hangzhou</Location>
      <Object>example.flv</Object>
    </Input>
    <UserData>testid-001</UserData>
    <State>Analyzing</State>
    <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>
            </NetworkCost>
            <AvgBitrate>300.34</AvgBitrate>
          </VideoStream>
        </VideoStreamList>
```

```

                                <AudioStreamList>
                                    <AudioStream>
                                        <Index>1</Index>
                                        <CodecName>dca</CodecName>
                                        <CodecTimeBase>1/48000</CodecTimeB
ase>
                                        <CodecLongName>DCA (DTS Coherent
Acoustics)</CodecLongName>
                                        <CodecTagString>[0][0][0][0]</
CodecTagString>
                                        <CodecTag>0x0000</CodecTag>
                                        <SampleFmt>fltp</SampleFmt>
                                        <Samplerate>48000</Samplerate>
                                        <Channels>2</Channels>
                                        <ChannelLayout>5.1(side)</ChannelLay
out>
                                        <Timebase>1/1000</Timebase>
                                        <StartTime>0.042000</StartTime>
                                        <Duration>123</Duration>
                                        <Bitrate>1536000</Bitrate>
                                        <NumFrames>123</NumFrames>
                                        <Lang>eng</Lang>
                                    </AudioStream>
                                </AudioStreamList>
                                <SubtitleStreamList>
                                    <SubtitleStream>
                                        <Index>3</Index>
                                        <Lang>eng</Lang>
                                    </SubtitleStream>
                                </SubtitleStreamList>
                            </Streams>
                            <Format>
                                <NumStreams>1</NumStreams>
                                <NumPrograms>2</NumPrograms>
                                <FormatName>matroska,webm</FormatName>
                                <FormatLongName>Matroska / WebM</FormatLong
Name>
                                <StartTime>0.042000</StartTime>
                                <Duration>17.600000</Duration>
                                <Size>70569598</Size>
                                <Bitrate>32077090</Bitrate>
                            </Format>
                        </Properties>
                    <Code> </Code>
                    <Message> </Message>
                    <PipelineId>88c6ca184c0e47098a5b665e2a126797</PipelineId>
                    <CreationTime>2014-01-10T12:00:00Z</CreationTime>
                </MediaInfoJob>
            </SubmitMediaInfoJobResponse>

```

JSON

```

{
    "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
    "MediaInfoJob": [{
        "JobId": "88c6ca184c0e47098a5b665e2a126797",
        "Input": {
            "Bucket": "example-bucket",
            "Location": "oss-cn-hangzhou",
            "Object": "example.flv"
        },
        "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 Acoustics)",
                    "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": "Analyzing",
          "Code": "",
          "Message": "",
          "PipelineId": "88c6ca184c0e47098a5b
665e2a126797",
          "CreationTime":"2014-01-10T12:00:00Z"
        }
      }
    ]
  }

```

4.2 QueryMediaInfoJobList

The QueryMediaInfoJobList API queries information about MediaInfo tasks.

Request parameters

Parameter	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: QueryMediaInfoJobList
MediaInfoJobIds	String	Yes	List of MediaInfo task IDs. Separated by commas (.). A maximum of 10 MediaInfo task IDs can be entered at a time. Comma separated, with a maximum of 10 queries at a time.

Response parameters

Parameter	Type	Description
MediaInfoJobList	AliyunMediaInfoJob[]	MediaInfo task list.

Parameter	Type	Description
NonExistMediaInfoJobIds	String[]	List of non-existing MediaInfo task IDs. If no data exists, this structure is not returned.

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?Action=QueryMediaInfoJobList&MediaInfoJobIds=88c6ca184c0e47098a5b665e2a126797<Public Parameters>
```

Response example

XML

```
<QueryMediaInfoJobListResponse>
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
  <MediaInfoJobList list="true">
    <MediaInfoJob>
      <JobId>88c6ca184c0e47098a5b665e2a126797</JobId>
      <Input>
        <Bucket>example-bucket</Bucket>
        <Location>oss-cn-hangzhou</Location>
        <Object>example.flv</Object>
      </Input>
      <UserData>testid-001</UserData>
      <State>Analyzing</State>
      <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>
        </NetworkCost>
        <AvgBitrate>300.34</AvgBitrate>
    </aliyun_video_stream>
</VideoStreamList>
<AudioStreamList>
    <AudioStream>
        <Index>1</Index>
        <CodecName>dca</CodecName>
        <CodecTimeBase>1/48000</CodecTimeB
ase>
        <CodecLongName>DCA (DTS Coherent
Acoustics)</CodecLongName>
        <CodecTagString>[0][0][0][0]</
CodecTagString>
        <CodecTag>0x0000</CodecTag>
        <SampleFmt>fltp</SampleFmt>
        <Samplerate>48000</Samplerate>
        <Channels>2</Channels>
        <ChannelLayout>5.1(side)</ChannelLay
out>
        <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</FormatLong
Name>
    <StartTime>0.042000</StartTime>
    <Duration>17.600000</Duration>
    <Size>70569598</Size>
    <Bitrate>32077090</Bitrate>
</Format>
</Properties>
<Code> </Code>
<Message> </Message>
    <PipelineId>88c6ca184c0e47098a5b665e2a126797</
PipelineId>
    <CreationTime>2014-01-10T12:00:00Z</CreationTime>
</MediaInfoJob>
</MediaInfoJobList>
</QueryMediaInfoJobListResponse>

```

JSON

```
{
```

```

"RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
"MediaInfoJobList": {
  "MediaInfoJob": [ {
    "JobId": "88c6ca184c0e47098a5b665e2a126797",
    "Input": {
      "Bucket": "example-bucket",
      "Location": "oss-cn-hangzhou",
      "Object": "example.flv"
    },
    "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 Acoustics)",
              "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": "Analyzing",
  "Code": "",
  "Message": "",
  "PipelineId": "88c6ca184c0e47098a5b665e2a126797",
  "CreationTime": "2014-01-10T12:00:00Z"
}]
}
```

5 Preset smart template recommended APIs

5.1 SubmitAnalysisJob

When you submit a file to the preset template analysis job interface, the MPS will intelligently analyze the input file to recommend a preset template suitable for the input file; the template analysis job result may be obtained using the `QueryTemplateAnalysisJob` interface, or the asynchronous notification mechanism.



Note:

The result of the preset template analysis is only retained for half a month and will be deleted after this two-week period. If the job is submitted again using the recommended template preset more than half a month later, the transcoding job will fail. The failed error code is: `AnalysisResultNotFound`.

Request parameters

Parameter	Type	Required or not	Description
Action	String	Yes	Operation interface name, system-defined parameter, value: <code>SubmitAnalysisJob</code>
Input	String	Yes	Input, Json Object: <pre>{"Bucket": "example-bucket", "Location": "oss-cn-hangzhou", "Object": "example.flv"}</pre> . You need to grant this Bucket read permission to the MPS on the Bucket Authorization page in the console's Resource Control Channel.

Parameter	Type	Required or not	Description
Priority	String	No	The task' s transcoding priority within its corresponding pipe, · in the range of [1-10]. · 10 is the highest priority. · Default value: 6
UserData	String	No	User-defined data. Maximum length is 1,024 bytes. ·
PipelineId	String	Yes	The pipe ID. If asynchronous notification is required, ensure that this pipe is bound to the available message subject. ·

Response parameters

Parameter	Type	Description
AnalysisJob	AliyunAnalysisJob	System Preset Template Analysis Job

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?Action=SubmitAnalysisJob&Input=%7B%22Bucket%22%3A%22example-bucket%22%2C%22Location%22%3A%22oss-cn-hangzhou%22%2C%0A%22Object%22%3A%22example.flv%22%7D%7D<Public parameters>
```

Response example

XML

```

<SubmitAnalysisJobResponse>
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
  <AnalysisJob>
    <Id>88c6ca184c0e47098a5b665e2a126797</Id>
    <InputFile>
      <Bucket>example-bucket</Bucket>
      <Location>oss-cn-hangzhou</Location>
      <Object>example.flv</Object>
    </InputFile>
    <AnalysisConfig>
      <QualityControl>
        <RateQuality>25</RateQuality>
        <MethodStreaming>network</MethodStreaming>
      </QualityControl>
    </AnalysisConfig>
    <UserData>testid-001</UserData>
    <State>Success</State>
    <TemplateList list="true">
      <Template>
        <Id>S000000000-000020</Id>
        <Name>FLV-UD</Name>
        <Container>
          <Format>flv</Format>
        </Container>
        <Video>
          <Codec>Auto</Codec>
          <Profile>Auto</Profile>
          <Bitrate>Auto</Bitrate>
          <Crf>Auto</Crf>
          <Width>Auto</Width>
          <Height>Auto</Height>
          <Fps>Auto</Fps>
          <Gop>Auto</Gop>
        </Video>
        <Audio>
          <Codec>Auto</Codec>
          <Samplerate>Auto</Samplerate>
          <Bitrate>Auto</Bitrate>
          <Channels>Auto</Channels>
        </Audio>
        <State>Normal</State>
      </Template>
    </TemplateList>
    <Code> </Code>
    <Message> </Message>
    <Percent>100</Percent>
    <CreationTime>2014-01-10T12:00:00Z</CreationTime>
    <PipelineId>88c6ca184c0e47098a5b665e2a126797</PipelineId>
  </AnalysisJob>
</SubmitAnalysisJobResponse>

```

JSON

```

{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "AnalysisJob": {
    "Id": "88c6ca184c0e47098a5b665e2a126797",
    "InputFile": {
      "Bucket": "example-bucket",
      "Location": "oss-cn-hangzhou",

```

```
        "Object": "example.flv"
    },
    "AnalysisConfig": {
        "QualityControl": {
            "RateQuality": 25,
            "MethodStreaming": "network"
        }
    },
    "UserData": "testid-001",
    "State": "Success",
    "Code": "",
    "Message": "",
    "Percent": 100,
    "PipelineId": "88c6ca184c0e47098a5b665e2a126797",
    "CreationTime": "2014-01-10T12:00:00Z",
    "TemplateList": [
        {
            "Template": {
                "Id": "S000000000-000020",
                "Name": "FLV-UD",
                "Container": {
                    "Format": "flv"
                },
                "Video": {
                    "Codec": "Auto",
                    "Profile": "Auto",
                    "Bitrate": "Auto",
                    "Crif": "Auto",
                    "Width": "Auto",
                    "Height": "Auto",
                    "Fps": "Auto",
                    "Gop": "Auto"
                },
                "Audio": {
                    "Codec": "AAC",
                    "Samplerate": "44100",
                    "Bitrate": "Auto",
                    "Channels": "Auto"
                },
                "State": "Normal"
            }
        }
    ]
}
```

```
}
```

5.2 QueryAnalysisJobList

Query Template Analysis Job interface. After the template analysis job is completed, a list of available preset templates is returned.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	Operation interface name, system-defined parameter, value: QueryAnalysisJobList
AnalysisJobIds	String	Yes	Template Analysis job ID list. - Up to 10 queries at a time. - Use standard commas (,) as separator.

Response parameters

Parameter	Type	Description
AnalysisJobList	AliyunAnalysisJob[]	Template Analysis Job List.
NotExistAnalysisJobIds	String[]	List of nonexistent template analysis jobs' ID, the structure does not return if there is no data.

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?Action=QueryAnalysisJobList&AnalysisJobIds=31fa3c9ca8134f9cec2b4b0b0f787830&<Public parameters>
```

Response example

XML

```
<QueryAnalysisJobListResponse>
```

```

<RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
<AnalysisJobList list="true">
  <AnalysisJob>
    <Id>88c6ca184c0e47098a5b665e2a126797</Id>
    <InputFile>
      <Bucket>example-bucket</Bucket>
      <Location>oss-cn-hangzhou</Location>
      <Object>example.flv</Object>
    </InputFile>
    <AnalysisConfig>
      <QualityControl>
        <RateQuality>25</RateQuality>
        <MethodStreaming>network</MethodStreaming>
      </QualityControl>
    </AnalysisConfig>
    <UserData>testid-001</UserData>
    <State>Success</State>
    <Code> </Code>
    <Message> </Message>
    <Percent>100</Percent>
    <CreationTime>2014-01-10T12:00:00Z</CreationTime>
    <PipelineId>88c6ca184c0e47098a5b665e2a126797</
PipelineId>
    <TemplateList list="true">
      <Template>
        <Id>S000000000-000020</Id>
        <Name>FLV-UD</Name>
        <Container>
          <Format>flv</Format>
        </Container>
        <Video>
          <Codec>Auto</Codec>
          <Profile>Auto</Profile>
          <Bitrate>Auto</Bitrate>
          <Crf>Auto</Crf>
          <Width>Auto</Width>
          <Height>Auto</Height>
          <Fps>Auto</Fps>
          <Gop>Auto</Gop>
        </Video>
        <Audio>
          <Codec>Auto</Codec>
          <Samplerate>Auto</Samplerate>
          <Bitrate>Auto</Bitrate>
          <Channels>Auto</Channels>
        </Audio>
        <State>Normal</State>
      </Template>
    </TemplateList>
  </AnalysisJob>
</AnalysisJobList>
</QueryAnalysisJobListResponse>

```

JSON

```

{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "AnalysisJobList": {
    "AnalysisJob": [{
      "Id": "88c6ca184c0e47098a5b665e2a126797",
      "InputFile": {
        "Bucket": "example-bucket",
        "Location": "oss-cn-hangzhou",

```

```

        "Object": "example.flv"
      },
      "AnalysisConfig": {
        "QualityControl": {
          "RateQuality": 25,
          "MethodStreaming": "network"
        }
      },
      "UserData": "testid-001",
      "State": "Success",
      "Code": "",
      "Message": "",
      "Percent": 100,
      "PipelineId": "88c6ca184c0e47098a5b665e2a126797",
      "CreationTime": "2014-01-10T12:00:00Z"
    },
    "TemplateList": [
      {
        "Template": [
          {
            "Id": "S000000000-000020",
            "Name": "FLV-UD",
            "Container": {
              "Format": "flv"
            },
            "Video": {
              "Codec": "Auto",
              "Profile": "Auto",
              "Bitrate": "Auto",
              "Crf": "Auto",
              "Width": "Auto",
              "Height": "Auto",
              "Fps": "Auto",
              "Gop": "Auto"
            },
            "Audio": {
              "Codec": "AAC",
              "Samplerate": "44100",
              "Bitrate": "Auto",
              "Channels": "Auto"
            },
            "State": "Normal"
          }
        ]
      }
    ]
  }
}

```

6 Transcoding APIs

6.1 SubmitJobs

The SubmitJobs API submits transcoding tasks. A transcoding output generates a transcoding task. This API returns the list of transcoding tasks. Tasks are added to an Media Transcoding queue for scheduling and execution. After tasks are executed, call the query transcoding tasks API to poll the task execution results. Asynchronous notification can be used.

**Note:**

If you want to use a preset transcoding template, call the SubmitAnalysisJob (SubmitAnalysisJob) API to trigger template analysis and call the QueryAnalysisJobList (QueryAnalysisJobList) API to obtain a list of preset transcoding templates available for the input file. If the preset template specified in the submitted transcoding task is not in the list of available preset templates, the transcoding task fails.

Request parameters

Parameter	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: SubmitJobs

Parameter	Type	Required or not	Description
Input	String	Yes	Job input, which is a JSON object. For the Input definition, see Appendix-Parameter details-19 Details of transcoding task input. Example: {"Bucket": "example-bucket", "Location": "oss-cn-hangzhou", "Object": "example.flv"} Cloud resource authorization must be completed in the console.
OutputBucket	String	Yes	Output bucket. Cloud resource authorization must be completed in the console.
OutputLocation	String	No	Data center where the output bucket belongs. The default value is oss-cn-hangzhou.

Parameter	Type	Required or not	Description
Outputs	String	Yes	- Outputs consists of the Output list , which is a JSON array and has up to 30 Output parameters. - For Output definition, see the glossary. - For details about the Output parameter, see “ 2. Output” in “ Parameters” of “Appendix.” Example: [{"OutputObject": "example-output.flv", "TemplateId": "S000000000-000010", "WaterMarks": [{"InputFile": {"Bucket": "example-bucket", "Location": "oss-cn-hangzhou", "Object": "example-logo.png"}, "WaterMarkTemplateId": "88c6ca184c0e47098a5b665e2a126797"}], "UserData": "testid-001"}]

Parameter	Type	Required or not	Description
PipelineId	String	是	MPS queue ID. - For the MPS queue definition, see the glossary. - If asynchronous notification is required, ensure that the MPS queue is bound to an available message subject.

Response parameters

Parameters	Type	Description
JobResultList	AliyunJobResult[]	List of submitted transcoding task results

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?PipelineId=88c6ca184c0e47098a5b665e2a126799&Action=SubmitJobs&Input=%7b%22Bucket%22%3a%22example-bucket%22%2c%22Location%22%3a%22oss-cn-hangzhou%22%2c%22Object%22%3a%22example.flv%22%7d&Outputs=%5b%7b%22OutputObject%22%3a%22example-output.flv%22%2c%22TemplateId%22%3a%22S00000000-000010%22%2c%22WaterMarks%22%3a%5b%7b%22InputFile%22%3a%7b%22Bucket%22%3a%22example-bucket%22%2c%22Location%22%3a%22oss-cn-hangzhou%22%2c%22Object%22%3a%22example-logo.png%22%7d%2c%22WaterMarkTemplateId%22%3a%2288c6ca184c0e47098a5b665e2a126797%22%7d%5d%7d%5d&OutputBucket=example-bucket&Public Parameters>
```

Response example

XML

```
<SubmitJobsResponse>
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
  <JobResultList list="true">
    <JobResult>
      <Success>true</Success>
      <Code> </Code>
      <Message> </Message>
      <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>S000000000-000010</TemplateId>
        <WaterMarkList list="true">
            <WaterMark>
                <InputFile>
                    <Bucket>example-logo-bucket</
Bucket>
                    <Location>oss-cn-hangzhou</
Location>
                    <Object>example-logo.png</Object>
                </InputFile>
                <WaterMarkTemplateId>88c6ca184c
0e47098a5b665e2a126797</WaterMarkTemplateId>
            </WaterMark>
        </WaterMarkList>
        <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>
</JobResult>
</JobResultList>
</SubmitJobsResponse>

```

JSON

```

{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "JobResultList": {
    "JobResult": [{
      "Success": true,
      "Code": "",
      "Message": "",
      "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": "S000000000-000010",
          "WaterMarkList": {
            "WaterMark": [{
              "InputFile": {

```

```
        "Bucket": "example-bucket",
        "Location": "oss-cn-hangzhou",
        "Object": "example-logo.png"
    },
    "WaterMarkTemplateId": "88c6ca184c0e47098a5b665e2a126797"
},
}]]]
}
```

Transcoding error codes

Error code	Description	Detailed information
InvalidParameter. ResourceContentBad	The transcoding fails because the transcoding source file is damaged.	The resource operated is broken.
PermissionDenied. ResourceAccess	Problems with authorization	The operation has no authorization.
InternalError	Internal unrecognized error	The operation has failed due to some unknown error, exception or failure.
InvalidParameter. NullValue	The parameter value is Null.	The specified parameter “%s” cannot be null.
InvalidParameter. EmptyValue	The parameter is blank.	The specified parameter “%s” can not be empty.
InvalidParameter. UUIDFormatInvalid	The ID is not in UUID format.	The parameter “%s” is invalid.A uuid must: 1) be comprised of chracters[a -f],numbers[0-9]; 2) be 32 characters long
InvalidParameter. OutOfRange	The parameter value is out of the value range.	The specified parameter “%s” is out of range.
InvalidParameter. ResourceNotFound	The resource does not exist.	The resource operated “%s” cannot be found.
InvalidParameter. ResourceDeleted	The resource is deleted.	The resource operated “%s” has been deleted.

Error code	Description	Detailed information
InvalidParameter. BucketNameInvalid	The bucket name is invalid .	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 location is invalid.	The location “%s” is invalid. A location name must be one of the five: oss-cn-hangzhou, oss-cn-shanghai, oss-cn-beijing, oss-us-west-1 and oss-cn-shenzhen.
InvalidParameter. ObjectKeyInvalid	The object name is invalid.	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
InvalidParameter. JsonArrayFormatInvalid	The parameter is not a JSON array.	The parameter “%s” does not conform to the JSON Array specification.
Parameters.NotSupported	The parameter is not supported.	The Parameters “%s” is not supported the same time,choose one of them.
InvalidParameter. ResourceNotSupported	The resource type is not supported.	The resource operated “%s” is not supported.
NotSupportedJob. SystemTemplateJobNotSupported	The system template does not support high-speed transcoding.	The Template “%s” is a system template,cannot be supported by boost pipeline” .
InvalidParameter.Format	The parameter format is incorrect.	The format of parameter “%s” is invalid.

Error code	Description	Detailed information
InvalidParameter.TemplateNotFound	The template cannot be found.	The Template operated “%s” cannot be found.
InvalidParameter.TemplateNotSupported	The template is not supported.	The template operated “%s” is not supported.
InvalidParameter.NumberFormatInvalid	The parameter is not a number.	The number format of parameter “%s” is invalid.
ParameterNotBoolean	The parameter is not a Boolean value.	ParameterNotBoolean, The Parameter “%s” is not boolean value.
InvalidParameter.DigiWatermark	The digital watermarking parameter is invalid.	The specified parameter “%s” must include alternative of “InputFile” or “(NumberMark, StringMark).”
InvalidParameter.WaterMarkFileFormatNotSupported	The watermarking format is not supported.	The resource operated “%s” is not supported, watermark only supports png file.
InvalidParameter.InvalidDigitalWaterMarkType	The digital watermarking type is invalid.	The specified parameter “%s” is invalid.
InvalidParameter.ListSizeExceed	The length of the parameter list exceeds the threshold.	The specified parameter “%s” size exceed limits.
InvalidParameter.InvalidBase64Format	The parameter does not conform to the Base64 format and is invalid.	The specified parameter “%s” should be encoded by base64_urlsafe.
InvalidParameter.ServiceNotSupportRegion	The feature is not supported in this region.	The parameter region “%s” has not support the open video service.
DataEncryption.ContainerFormatNotSupported	The data is encrypted, and the container format is not supported.	The container format only support: m3u8.
DataEncryption.CiphertextNotExist	The data is encrypted, and the ciphertext does not exist.	The ciphertext does not exist.

6.2 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: CancelJob
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"  
}
```

6.3 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: QueryJobList
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>88c6ca184c0e47098a5b
665e2a126797</WaterMarkTemplateId>
            </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)</CodecLongName>
            <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]",
                  "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 Acoustics)",
                "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"  
    }  
}
```

6.4 ListJob

The ListJob API lists transcoding tasks by task status, creation time range, and transcoding MPS queue. By default, 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: ListJob
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. · Default value: 10. · Value range: [1, 100].

Parameters	Type	Required or not	Description
State	String	No	Transcoding task status. • All indicates all states, • Submitted indicates submitted tasks, • Transcoding indicates tasks being transcoded , • TranscodeSuccess indicates tasks that are successfully transcoded, • TranscodeFail indicates tasks that fail to be transcoded, • and TranscodeCancelled indicates tasks with canceled transcoding. Default value: All.
PipelineId	String	No	MPS queue ID.

Parameters	Type	Required or not	Description
StartOfJobCreatedTimeRange	String	No	Start date of the time range of creating transcoding tasks. - The date format conforms to ISO 8601 and UTC time is used. - Format: YYYY-MM-DDThh:mm:ssZ. - Example: 2014-01-10T12:00:00Z (January 10, 2014 at 20:00:00, Beijing time).
EndOfJobCreatedTimeRange	String	No	End date of the time range of creating transcoding tasks. - The date format conforms to ISO 8601 and UTC time is used. - Format: YYYY-MM-DDThh:mm:ssZ. - Example, 2014-01-11T12:00:00Z (January 11, 2014 at 20:00:00, Beijing time).

Response parameters

Parameter	Type	Description
JobList	AliyunJob[]	Set of transcoding tasks
NextPageToken	String	Identifier of the next page, which is a 32-bit UUID.

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?StartOfJobCreatedTimeRange=2014-01-10T12%3A00%3A00Z&State=All&EndOfJobCreatedTimeRange=2014-01-11T12%3A00%3A00Z&PipelineId=88c6ca184c0e47098a5b665e2a126797&Action=ListJob&<Public parameter>
```

Response example

XML

```
<ListJobResponse>
  <RequestId>58CBF1B8-048C-4550-B59C-F6EA57A8CEB6</RequestId>
  <NextPageToken>8c6ca184c0e47098a5b665e2a126797</NextPageToken>
  <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</WaterMarkTemplateId>
          </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>
```

```

        <PixelFormat>yuv420p</PixelFormat>
        <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)</CodecLongName>
        <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>TranscodeSuccess</State>
  <Code> </Code>
  <Message> </Message>
  <Percent>100</Percent>
  <PipelineId>88c6ca184c0e47098a5b665e2a126797</
PipelineId>
    <CreationTime>2014-01-10T12:00:00Z</CreationTime>
  </Job>
</JobList>
</ListJobResponse>

```

JSON

```

{
  "NextPageToken": "8c6ca184c0e47098a5b665e2a126797",
  "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": "88c6ca184c
0e47098a5b665e2a126797"
          }]
        },
        "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",
34"
            "AvgBitrate": "300.
        }
    }
],
},
"AudioStreamList": {
    "AudioStream": [
        {
            "Index": "1",
            "CodecName": "dca",
            "CodecTimeBase": "1/
48000",
            "CodecLongName": "DCA (
DTS Coherent Acoustics)",
            "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": "TranscodeSuccess",
"Code": "",
"Message": "",
"Percent": 100,
"PipelineId": "88c6ca184c0e47098a5b665e2a126797",
"CreationTime": "2014-01-10T12:00:00Z"
}]
},
"RequestId": "06CB45EF-903C-4464-A812-AD276948D5BB"
}
```

7 Custom transcoding template APIs

7.1 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: AddTemplate
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: {"Format": "mp4"}

Parameters	Type	Required or not	Description
Video	String	No	Video stream configuration. - JSON object. For details, see “8. Video” in “Parameters” of “Appendix.” - Example: {"Codec":"H.264","Profile":"high","Bitrate":"500","Crf":"15","Width":"256","Height":"800","Fps":"25","Gop":"10"}  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>

Parameters	Type	Required or not	Description
MuxConfig	String	No	Encapsulation configuration - JSON object. For details, see “17 . MuxConfig” in “Parameters” of “Appendix.” - Example: {"Segment":{"Duration":"12"}}}

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%22Codec%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%22aac%22%2C%22SampleRate%22%3A%2244100%22%2C%20%22BitRate%22%3A%22500%22%2C%22Channels%22%3A%222%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"
  }
}

```

```
}  
}
```

7.2 UpdateTemplate

The UpdateTemplate API updates custom template settings. If the custom transcoding template to be updated is used by “Submitted” tasks, the template cannot be updated.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: UpdateTemplate
TemplateId	String	Yes	Template ID.
Name	String	Yes	Template name. Up to 128 bytes.
Container	String	No	Container · JSON object. For details, see “7. Container” in “Parameters” of “Appendix.” · Example: {"Format": "mp4"}

Parameters	Type	Required or not	Description
Video	String	No	Video stream configuration. - JSON object. For details, see “8. Video” in “Parameters” of “Appendix.” - Example: <code>{"Codec": "H.264", "Profile": "high", "Bitrate": "500", "Crf": "15", "Width": "256", "Height": "800", "Fps": "25", "Gop": "10"}</code>
Audio	String	No	Audio stream configuration. - JSON object. For details, see “10. Audio” in “Parameters” of “Appendix.” - Example: <code>{"Codec": "aac", "Samplerate": "44100", "Bitrate": "500", "Channels": "2"}</code>

Parameters	Type	Required or not	Description
TransConfig	String	No	General transcoding configuration. - JSON object. For details, see “16. TransConfig” in “Parameters” of “Appendix.” - Example: <code>{"TransMode": "fixCRF"}</code>
MuxConfig	String	No	Encapsulation configuration - JSON object. For details, see “17. MuxConfig” in “Parameters” of “Appendix.” - Example: <code>{"Segment": {"Duration": "12"}}</code>

Response parameters

Parameter	Type	Description
Template	Aliyuntemplate	Template

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?TemplateId=88c6ca184c0e47098a5b665e2a126799&Container=%7B%22Format%22%3A%22mp4%22%7D&Video=%7B%22Codec%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%20%22Codec%22%3A%20%22AAC%22%2C%22SampleRate%22%3A%20%2244100%22%2C%20%22BitRate%22%3A%20%22500%22%2C%20%22Channels%22%3A%20%222%22%20%7D&Action=UpdateTemplate&<Public parameter>
```

Response example

XML

```
<UpdateTemplateResponse>
  <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>
</UpdateTemplateResponse>
```

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"
    },
    "State": "Normal"
}

```

7.3 QueryTemplateList

The QueryTemplateList API queries custom templates. This API can be used to query details about transcoding templates using custom template IDs.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: QueryTemplateList
TemplateIds	String	Yes	List of template IDs separated by commas (.). A maximum of 10 template IDs can be entered.

Response parameters

Parameter	Type	Description
TemplateList	AliyunTemplate[]	List of transcoding templates.
NotExistTids	String[]	List of non-existing transcoding templates . If no data exists, this structure is not returned.

Examples

Request example

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

Response example

XML

```
<QueryTemplateListResponse>
  <RequestId>017F1B2D-2B5B-4441-ABBA-E0DC08F5AFEC</RequestId>
  <TemplateList list="true">
    <Template>
      <Id>88c6ca184c0e47098a5b665e2a126799</Id>
      <Name>MTS-example</Name>
      <Container>
        <Format>mp4</Format>
      </Container>
      <Video>
        <Codec>H. 264</Codec>
        <Profile>high</Profile>
        <Bitrate>500</Bitrate>
        <Crf>Auto</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>Auto</Bitrate>
        <Channels>Auto</Channels>
      </Audio>
      <TransConfig>
        <TransMode>fixCRF</TransMode>
      </TransConfig>
      <State>Normal</State>
    </Template>
  </TemplateList>
</QueryTemplateListResponse>
```

JSON

```
{
  "RequestId": "3E767BAD-9F4C-4FC8-9FAE-E3F4A639066B",
  "TemplateList": {
    "Template": [{
      "Id": "88c6ca184c0e47098a5b665e2a126799",
      "Name": "MTS-example",
```

```

    "Container": {
      "Format": "mp4"
    },
    "Video": {
      "Codec": "H. 264",
      "Profile": "high",
      "Bitrate": "500",
      "Crf": "Auto",
      "Width": "256",
      "Height": "800",
      "Fps": "25",
      "Gop": "10",
      "Preset": "lower",
      "ScanMode": "",
      "Bufsize": "6000",
      "Maxrate": "500",
      "BitrateBnd": {
        "Max": "",
        "Min": ""
      }
    },
    "Audio": {
      "Codec": "AAC",
      "Samplerate": "44100",
      "Bitrate": "Auto",
      "Channels": "Auto"
    },
    "TransConfig": {
      "TransMode": "fixCRF"
    },
    "State": "Normal"
  ]
}

```

7.4 SearchTemplate

The SearchTemplate API searches for custom templates in the specified state.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: SearchTemplate
PageNumber	Long	No	Current page number, • which starts from 1. • Default value: 1.

Parameters	Type	Required or not	Description
PageSize	Long	No	When querying by page, this parameter indicates the size of each page. - Maximum value is 100. - Default value: 10.
State	String	No	Transcoding template status. - All indicates all states, - Normal indicates normal templates, - and Deleted indicates deleted templates. Default value: All.

Response parameters

Parameter	Type	Description
TemplateList	AliyunTemplate[]	Template list

Examples

Request example

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

Response example

XML

```
<SearchTemplateResponse>
  <RequestId>017F1B2D-2B5B-4441-ABBA-E0DC08F5AFEC</RequestId>
  <TotalCount>1</TotalCount>
  <PageNumber>1</PageNumber>
  <PageSize>10</PageSize>
  <TemplateList list="true">
    <Template>
      <Id>88c6ca184c0e47098a5b665e2a126799</Id>
      <Name>MTS-example</Name>
```

```

    <Container>
      <Format>mp4</Format>
    </Container>
    <Video>
      <Codec>H. 264</Codec>
      <Profile>high</Profile>
      <Bitrate>500</Bitrate>
      <Crf>Auto</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>Auto</Bitrate>
      <Channels>Auto</Channels>
    </Audio>
    <TransConfig>
      <TransMode>fixCRF</TransMode>
    </TransConfig>
    <State>Normal</State>
  </Template >
</TemplateList>
</SearchTemplateResponse>

```

JSON

```

{
  "RequestId": "3E767BAD-9F4C-4FC8-9FAE-E3F4A639066B",
  "PageNumber": 1,
  "PageSize": 10,
  "TotalCount": 1,
  "TemplateList": {
    "Template": [{
      "Id": "88c6ca184c0e47098a5b665e2a126799",
      "Name": "MTS-example",
      "Container": {
        "Format": "mp4"
      },
      "Video": {
        "Codec": "H. 264",
        "Profile": "high",
        "Bitrate": "500",
        "Crf": "Auto",
        "Width": "256",
        "Height": "800",
        "Fps": "25",
        "Gop": "10",
        "Preset": "lower",
        "ScanMode": "",
        "Bufsize": "6000",
        "Maxrate": "500",
        "BitrateBnd": {

```

```

        "Max": "",
        "Min": ""
    },
    "Audio": {
        "Codec": "aac",
        "Samplerate": "44100",
        "Bitrate": "Auto",
        "Channels": "Auto"
    },
    "TransConfig": {
        "TransMode": "fixCRF"
    },
    "State": "Normal"
}]
}

```

7.5 DeleteTemplate

The DeleteTemplate API deletes a custom template. If the custom transcoding template to be deleted is 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: DeleteTemplate
TemplateId	String	Yes	Template ID.

Response parameters

Parameter	Type	Description
TemplateId	String	Template ID

Examples

Request example

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

Response example

XML

```
<DeleteTemplateResponse>
  <RequestId>017F1B2D-2B5B-4441-ABBA-E0DC08F5AFEC</RequestId>
```

```
<TemplateId>88c6ca184c0e47098a5b665e2a126799</TemplateId>
</DeleteTemplateResponse>
```

JSON

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

8 MPS queue APIs

8.1 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: UpdatePipeline
PipelineId	String	Yes	MPS queue ID.
Name	String	Yes	MPS queue name. Up to 128 characters.

Parameters	Type	Required or not	Description
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: {"Topic": "mts-topic-1"}
Role	String	No	Roles

Response parameters

Parameter	Type	Description
Pipeline	String	MPS queue

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?PipelineId=5efb0fa33836432e9488ed56eb0075c8&Name=example-watermark&State=Paused&Action=UpdatePipeline&NotifyConfig=%7b%22topic%22%3a%22mts-topic-1%22%7d%2c%22role%22%3a%22role1%22%7d<Public parameter>
```

Response example

XML

```
<UpdatePipelineResponse>
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
  <Pipeline>
    <Id>31fa3c9ca8134f9cec2b4b0b0f787830</Id>
    <Name>qupai-pipeline</Name>
    <State>Active</State>
    <Speed>Standard</Speed>
    <NotifyConfig>
      <Topic>mts-topic-1</Topic>
    </NotifyConfig>
    <Role>AliyunMTSDefaultRole</Role>
  </Pipeline>
</UpdatePipelineResponse>
```

JSON

```
{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "Pipeline": {
    "Id": "31fa3c9ca8134f9cec2b4b0b0f787830",
    "Name": "qupai-pipeline",
    "State": "Active",
    "Speed": "Standard",
    "NotifyConfig": {
      "Topic": "mts-topic-1"
    },
    "Role": "AliyunMTSDefaultRole"
  }
}
```

```
}
```

8.2 QueryPipelineList

The QueryPipelineList API queries MPS queues and returns the name and status of the specified MPS queues.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: QueryPipelineList
PipelineIds	String	Yes	MPS queue list. Query up to 10 at a time, separated by a comma.

List of non-existing MPS queue IDs. If no data exists, this structure is not returned.

Return parameters	Type	Description
PipelineList	AliyunPipeline[]	MPS queue list
NotExistPids	String[]	List of non-existing MPS queue IDs. If no data exists, this structure is not returned.

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?PipelineIds=31fa3c9ca8134f9cec2b4b0b0f787830&Action=QueryPipelineList&<Public parameter>
```

Response example

XML

```
<QueryPipelineListResponse>
<RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>
<PipelineList list="true">
  <Pipeline>
    <Id>31fa3c9ca8134f9cec2b4b0b0f787830</Id>
    <Name>example-pipeline</Name>
    <State>Active</State>
    <Speed>Standard</Speed>
```

```
<NotifyConfig>
  <Topic>mts-topic-1</Topic>
</NotifyConfig>
<Role>AliyunMTSDefaultRole</Role>
</Pipeline>
</PipelineList>
</QueryPipelineList>
```

JSON

```
{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "TotalCount": 1,
  "PageNumber": 1,
  "PageSize": 10,
  "PipelineList": [
    {
      "Pipeline": {
        "Id": "31fa3c9ca8134f9cec2b4b0b0f787830",
        "Name": "example-pipeline",
        "State": "Active",
        "Speed": "Standard",
        "NotifyConfig": {
          "Topic": "mts-topic-1"
        },
        "Role": "AliyunMTSDefaultRole"
      }
    }
  ]
}
```

8.3 SearchPipeline

The SearchPipeline API searches for MPS queues by MPS queue status.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: SearchPipeline
PageNumber	Long	No	Current page number, · which starts from 1. · Default value: 1.

Parameters	Type	Required or not	Description
PageSize	Long	No	When querying by page, this parameter indicates the size of each page (number of lines per page). - Maximum value: 100. - Default value: 10.
State	String	No	MPS queue status, which has the following options: All, Active, Paused, and Deleted. Default value: All

Response parameters

Parameter	Type	Description
PipelineList	AliyunPipeline[]	MPS queue list

Examples

Request example

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

Response example

XML

```
<SearchPipelineResponse>  
  <RequestId>25818875-5F78-4A13-BEF6-D7393642CA58</RequestId>  
  <TotalCount>1</TotalCount>  
  <PageNumber>1</PageNumber>  
  <PageSize>10</PageSize>  
  <PipelineList list="true">  
    <Pipeline>  
      <Id>31fa3c9ca8134f9cec2b4b0b0f787830</Id>  
      <Name>example-pipeline</Name>  
      <State>Active</State>  
      <NotifyConfig>  
        <Topic>mts-topic-1</Topic>  
      </NotifyConfig>  
      <Role>AliyunMTSDefaultRole</Role>  
    </Pipeline>  
  </PipelineList>
```

```
</SearchPipeline>
```

JSON

```
{
  "RequestId": "25818875-5F78-4A13-BEF6-D7393642CA58",
  "TotalCount": 1,
  "PageNumber": 1,
  "PageSize": 10,
  "PipelineList": {
    "Pipeline ": [{
      "Id": "31fa3c9ca8134f9cec2b4b0b0f787830",
      "Name": "example-pipeline",
      "State": "Active",
      "NotifyConfig": {
        "Topic": "mts-topic-1"
      },
      "Role": "AliyunMTSDefaultRole"
    }]
  }
}
```

9 Watermark template APIs

9.1 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: AddWaterMarkTemplate
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"
  }
}
```

}

9.2 UpdateWaterMarkTemplate

The UpdateWaterMarkTemplate API updates the name and configurations of a specified watermark template. If the watermark template to be updated is used by “Submitted” tasks, the template cannot be updated.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: UpdateWaterMarkTemplate
WaterMarkTemplateId	String	Yes	Watermark template ID.
Name	String	Yes	Template name. Up to 128 bytes.
Config	String	Yes	Watermark template configurations. - JSON object. For details, see “5. WaterMarkConfig” in Parameters” of “Appendix.” - Example: {"Width": "10px", "Height": "30px", "Dx": "10px", "Dy": "5px", "Type": "Image", "Timeline": {"Start": "0", "Duration": "10"}}}

Response parameters

Parameter	Type	Description
WaterMarkTemplate	AliyunWaterMarkTemplate	Watermark template

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?WaterMarkTemplateId=88c6ca184c0e47098a5b665e2a126797&Name=example-watermark&Config=%7B%22Width%22%3A%20%2210px%22%2C%22Height%22%3A%20%2230px%22%2C%22Dx%22%3A%20%2210px%22%2C%22Dy%22%3A%225px%22%2C%22ReferencePos%22%3A%0A%22TopRight%22%2C%22Type%22%3A%22Image%22%7D%0A&Action=UpdateWaterMarkTemplate&<Public parameter>
```

Response example

XML

```
<UpdateWaterMarkTemplateResponse>
  <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>
</UpdateWaterMarkTemplateResponse>
```

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"
  }
}
```

```
}
```

9.3 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: QueryWaterMarkTemplateList
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"
    }]
  }
}
```

9.4 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: SearchWaterMarkTemplate

Parameters	Type	Required or not	Description
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.
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"
    }]
  }
}
```

```
}
```

9.5 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: DeleteWaterMarkTemplate
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"
}
```

10 Screenshot APIs

10.1 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: SubmitSnapshotJob

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, see example of using Snapshot interface. · The bucket permission must be granted to Media Transcoding in the console.

Parameters	Type	Required or not	Description
SnapshotConfig	String	Yes	Snapshot configuration. - SON object. For details, see “11 . SnapshotConfig ” in Parameters ” of “Appendix .” - For example: - Synchronous mode: <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"} }</pre>

Parameters	Type	Required or not	Description
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.
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!

10.2 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: QuerySnapshotJobList
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>
    </SnapshotJob>
  </SnapshotJobList>
</QuerySnapshotJobListResponse>
```

```

        <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"
        }]
    }
}

```

11 Media workflow APIs

11.1 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: AddMediaWorkflow
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%257B0bjectPrefix%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%2C%22Public 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%7B0bjectPrefix%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%7B0bjectPrefix%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"
  }
}
```

```
}
```

11.2 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"
```

```
}
```

11.3 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: DeactivateMediaWorkflow
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"
```

```
}
```

11.4 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: DeleteMediaWorkflow
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"
```

}

11.5 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: UpdateMediaWorkflow
MediaWorkflowId	String	Yes	Media workflow ID.
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%257B0bjectPrefix%7D%7BFileName%7D%5C%22%
2C%5C%22TemplateId%5C%22%3A+%5C%22957d1719ee85ed6527b90cf62726cbef%5C
%22%7D%5D%22%2C%22OutputBucket%22%3A%22panda-vod-hls%22%2C%22OutputLo
cation%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":{"\
": "\"panda-vod\"","\Location\": \"oss-cn-hangzhou\"}}},"Type":"Start
"},"Act-Report":{"Parameters":{},"Type":"Report"},"Act-Transcode
-M3U8":{"Parameters":{"Outputs":["\OutputObject\": \"transcode%
2F%7B0bjectPrefix%7D%7BFileName%7D\"","\TemplateId\": \"957d1719ee
85ed6527b90cf62726cbef\"}}"],"OutputBucket":"panda-vod-hls","OutputLoca
tion":"oss-cn-hangzhou"},"Type":"Transcode"}},"Dependencies":{"Act-

```

```

Start":["Act-Transcode-M3U8"],"Act-Report":[],"Act-Transcode-M3U8":["
Act-Report"]]}</Topology>
  <MediaWorkflowId>93ab850b4f6f44eab54b6e91d24d81d4</MediaWorkf
lowId>
  </MediaWorkflow>
</UpdateMediaWorkflowResponse>

```

JSON

```

{
  "RequestId": "A06BF02F-1BA7-4866-85FE-B17D318DBD47",
  "MediaWorkflow": {
    "CreationTime": "2016-04-01T05:29:38Z",
    "Name": "mediaworkflow-test",
    "State": "Inactive",
    "Topology": "{\n\"Activities\":{\n\"Act-Start\":{\n\"Parameters
\":{\n\"PipelineId\":\n\"130266f58161436a80bf07cb12c8009a\", \"InputFile
\":\n\"{\n\"Bucket\":\n\"panda-vod\", \"Location\":\n\"oss-
cn-hangzhou\"}\n\"},\n\"Type\":\n\"Start\", \"Act-Report\":{\n\"Parameters
\":{\n\"Type\":\n\"Report\", \"Act-Transcode-M3U8\":{\n\"Parameters\":{\n
\"Outputs\":\n\"{\n\"OutputObject\":\n\"transcode%2F%7B0bjectPrefix
%7D%7BFileName%7D\", \"TemplateId\":\n\"957d1719ee85ed6527b9
0cf62726cbef\"}\n\"},\n\"OutputBucket\":\n\"panda-vod-hls\", \"OutputLoca
tion\":\n\"oss-cn-hangzhou\", \"Type\":\n\"Transcode\"}\n\"},\n\"Dependencies
\":{\n\"Act-Start\":[\n\"Act-Transcode-M3U8\", \"Act-Report\": [],\n\"Act-
Transcode-M3U8\":[\n\"Act-Report\"]}\n\"},
    \"MediaWorkflowId\": \"93ab850b4f6f44eab54b6e91d24d81d4\"
  }
}

```

11.6 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: QueryMediaWorkflowList
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.
NonExistMediaWorkflowIdList	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":"","Location":"","Type":"Start"},"Act-Report":{"Parameters":{},"Type":"Report"},"Act-Transcode-M3U8":{"Parameters":{"Outputs":{"ObjectPrefix":{"FileName":"","TemplateId":"","Transcode":{"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\":{\"ObjectPrefix\":{\"FileName\":\"\",\"TemplateId\":\"\",\"Transcode\":{\"OutputBucket\":\"panda-vod-hls\",\"OutputLocation\":\"oss-cn-hangzhou\"},\"Type\":\"Transcode\"},\"Dependencies\":{\"Act-Start\":[\"Act-Transcode-M3U8\"],\"Act-Report\":[],\"Act-Transcode-M3U8\":[\"Act-Report\"]}}}}}}\"}"
      }
    ]
  }
}
```

```

85ed6527b90cf62726cbef\\\\"}]\\",\\"OutputBucket\\":\\"panda-vod-hls\\",
\\"OutputLocation\\":\\"oss-cn-hangzhou\\",\\"Type\\":\\"Transcode\\"}},\\"
Dependencies\\":{\\"Act-Start\\":[\\"Act-Transcode-M3U8\\"],\\"Act-Report\\":
[],\\"Act-Transcode-M3U8\\":[\\"Act-Report\\"]}}",
    "MediaWorkflowId": "93ab850b4f6f44eab54b6e91d24d81
d4"
    }
  ],
},
  "RequestId": "16CD0CDD-457E-420D-9755-8385075A618B"
}

```

11.7 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: SearchMediaWorkflow
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-Transcode-M3U8":["Act-Report"]}}}</Topology>
      <MediaWorkflowId>e00732b977da427d9177a4dee646b1aa</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\\\\\\\\\": \\\\\"957d1719ee
85ed6527b90cf62726cbef\\\\\\\\\"]\", \"OutputBucket\": \"panda-vod-hls\",
\"OutputLocation\": \"oss-cn-hangzhou\", \"Type\": \"Transcode\"} }, \"
Dependencies\": { \"Act-Start\": [ \"Act-Transcode-M3U8\" ], \"Act-Report\":
[ ], \"Act-Transcode-M3U8\": [ \"Act-Report\" ] } }\",
      \"MediaWorkflowId\": \"e00732b977da427d9177a4dee646b1
aa\"
    }
  ],
  \"TotalCount\": 339,
  \"PageSize\": 1,
  \"RequestId\": \"9AB3E295-F459-44C6-A0D4-6370700\"
}
Related articles

```

11.8 UpdateMediaWorkflowTriggerMode

Update the trigger mode of media workflow.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: UpdateMediaWorkflowTriggerMode
MediaWorkflowId	String	Yes	Media workflow ID.
TriggerMode	String	No	Trigger mode. Range: OssAutoTrigger, NotInAuto

Response parameters

None

Examples

Request example

```
https://mts.cn-hangzhou.aliyuncs.com/?MediaWorkflowId=e00732b977da427d9177a4dee646b1aa&TriggerMode=NotInAuto<Public parameter>
```

Response example

XML

```
<UpdateMediaWorkflowTriggerModeResponse>
  <RequestId>A1326BD4-30B1-4CB6-B116-3330B877B0D4</RequestId>
  <MediaWorkflow>
    <CreationTime>2016-04-01T05:29:37Z</CreationTime>
    <Name>mediaworkflow-test</Name>
    <State>Inactive</State>
    <TriggerMode>NotInAuto</TriggerMode>
    <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>
</UpdateMediaWorkflowTriggerModeResponse>
```

JSON

```
{
  "RequestId": "A1326BD4-30B1-4CB6-B116-3330B877B0D4",
  "MediaWorkflow": {
    "CreationTime": "2016-04-01T05:29:37Z",
    "Name": "mediaworkflow-test",
    "State": "Inactive",
    "TriggerMode": "NotInAuto",
    "Topology": "{\n  \"Activities\": {\n    \"Act-Start\": {\n      \"Parameters\": {\n        \"PipelineId\": \"130266f58161436a80bf07cb12c8009a\", \"InputFile\": {\n          \"Bucket\": \"panda-vod\", \"Location\": \"oss-cn-hangzhou\"}\n        }, \"Type\": \"Start\", \"Act-Report\": {\n          \"Parameters\": {}, \"Type\": \"Report\", \"Act-Transcode-M3U8\": {\n            \"Parameters\": {\n              \"Outputs\": {\n                \"OutputObject\": {\n                  \"transcode%2F%7BObjectPrefix%7D%7BFileName%7D\": \"957d1719ee85ed6527b90cf62726cbef\", \"TemplateId\": \"957d1719ee85ed6527b90cf62726cbef\"}\n                }, \"OutputBucket\": \"panda-vod-hls\", \"OutputLocation\": \"oss-cn-hangzhou\", \"Type\": \"Transcode\", \"Dependencies\": {\n                  \"Act-Start\": [\"Act-Transcode-M3U8\"], \"Act-Report\": [], \"Act-Transcode-M3U8\": [\"Act-Report\"]\n                }\n              }\n            }\n          }\n        }\n      }\n    }\n  }\n}",
    "MediaWorkflowId": "e00732b977da427d9177a4dee646b1aa"
  }
}
```

12 Media workflow execution instance APIs

12.1 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: ListMediaWorkflowExecutions
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: 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

Parameters	Type	Required or not	Description
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>
    </MediaWorkflowExecution>
  </MediaWorkflowExecutionList>
</ListMediaWorkflowExecutionsResponse>
```

```

<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>f2ffd10aee504c15b0bd6f39b92ca667</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": "f2fffd10aee504c15b0bd6f39b92ca667",
                    "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"  
  }  
]  
}
```

12.2 QueryMediaWorkflowExecutionList

The QueryMediaWorkflowExecutionList API queries media workflow execution instances.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: QueryMediaWorkflowExecutionList
RunIds	String	Yes	A list of media workflow execution instance IDs, separated by commas (.). A maximum of 10 instance IDs can be entered.

Response parameters

Parameter	Type	Description
MediaWorkflowExecutionList	MediaWorkflowExecution []	A list of media workflow execution instances.
NonExistRunIds	String[]	A list of nonexistent media workflow execution instance IDs.

Examples

Request example

```
https://mts.cn-hangzhou.aliyuncs.com?RunIds=9bd5a286b59d4cf19685d5b3c501e528&<public parameter>
```

Response example

XML

```
<QueryMediaWorkflowExecutionListResponse>
  <RequestId>1629B273-1F03-421B-9C5E-9C398E04805F</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>Fail</State>
          <Code>InvalidParameter.ResourceContentBad</Code>
          <Message>The resource operated InputFile is bad</Message>
        </Activity>
        <Activity>
          <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>f2ffd10aee504c15b0bd6f39b92ca667</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>
      </ActivityList>
    </MediaWorkflowExecution>
  </MediaWorkflowExecutionList>
</QueryMediaWorkflowExecutionListResponse>
```

```

    </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>
</QueryMediaWorkflowExecutionListResponse>

```

JSON

```

{
  "RequestId": "ED86B7DE-A1C0-4D83-8DDA-886637532178",
  "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"
          },
          "UserData": "test-userData"
        },
        "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": "Fail",
              "Code": "InvalidParameter.ResourceCo
tentBad",
              "Message": "The resource operated InputFile
is bad",
              "Type": "Transcode",
              "JobId": "2376030d9d0849399cd20e20c876f4f3",
              "EndTime": "2016-04-01T06:54:00Z",
              "StartTime": "2016-04-01T06:53:45Z"
            }
          ]
        }
      }
    ]
  }
}

```

```

    },
    {
      "Name": "Act-3",
      "State": "Success",
      "Type": "Transcode",
      "JobId": "f2fffd10aee504c15b0bd6f39b92ca667",
      "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 Media APIs

13.1 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: AddMedia
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.)

Parameters	Type	Required or not	Description
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.
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).
CateId	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.

Parameters	Type	Required or not	Description
MediaWorkflowUserData	String	No	Custom data of a media workflow, · which consists of up to 1,024 bytes · UTF-8 encoding.
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%2Fzzzinput-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/aa9bb3115da54befa74e0bd81a7a9e46%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/adee42a78b1f407184a792b8777efb3c%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"
  }
}
```

13.2 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: DeleteMedia
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"
}
```

13.3 UpdateMedia

The UpdateMedia API updates media set basic information, such as the title, description, and category. This API implements full update. Each attribute must be set; otherwise, it is overwritten by a null value.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: UpdateMedia
MediaId	String	Yes	Media ID.
Title	String	No	Media title. · If not set, this parameter is cleared. · The parameter value consists of up to 128 UTF-8 encoded bytes.
Description	String	No	Description. · If not set, this parameter is cleared. · The parameter value consists of up to 1,024 UTF-8 encoded bytes.

Parameters	Type	Required or not	Description
CateId	Long	No	Category ID. · If not set, this parameter is cleared. · The parameter value cannot be negative.
Tags	String	No	List of labels. · Multiple tags must be separated by commas (.). Up to 16 tags can be entered. · The name of a single tag consists of up to 32 bytes. · The tag name is encoded by UTF-8.
CoverURL	String	No	Cover. · The URL format follows the RFC 2396 standard and is subject to UTF-8 encoding and URL encoding. · A URL consists of up to 3,200 bytes. ·

Response parameters

Parameter	Type	Description
Media	Media	Media

Examples

Request example

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

Response example

XML

```
<UpdateMediaResponse>
  <Media>
    <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>hello</Title>
    <CreationTime>2016-09-14T08:30:33Z</CreationTime>
    <RunIdList>
      <RunId>47b42486019c4f688bf144c1a6ba059a</RunId>
    </RunIdList>
    <CateId>0</CateId>
    <Duration>7.965000</Duration>
    <Width>1920</Width>
    <Fps>25.0</Fps>
    <Bitrate>2659.326</Bitrate>
    <Size>2647692</Size>
  </Media>
  <RequestId>C876E3A4-4CA1-40E7-BB29-D541E6B9D9D9</RequestId>
</UpdateMediaResponse>
```

JSON

```
{
  "Media": {
    "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": "hello",
    "CreationTime": "2016-09-14T08:30:33Z",
    "RunIdList": {
      "RunId": [
        "47b42486019c4f688bf144c1a6ba059a"
      ]
    },
    "CateId": 0,
    "Duration": "7.965000",
    "Width": "1920",
    "Fps": "25.0",
```

```
        "Bitrate": "2659.326",
        "Size": "2647692"
    },
    "RequestId": "C481C0BC-FD8F-448B-8C67-1C48716764D1"
}
```

13.4 UpdateMediaCategory

The UpdateMediaCategory API updates media categories.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: UpdateMediaCategory
MediaId	String	Yes	Media ID.
CateId	Long	No	Category ID, which cannot be a negative number.

Response parameters

Parameter	Type	Description
Media	Media	Media

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?MediaId=3e1cd21131a94525be55
acf65888bf46&<public parameter>
```

Response example

XML

```
<UpdateMediaCategoryResponse>
  <RequestId>E3931857-E3D3-4D6E-9C7B-D2C09441BD01</RequestId>
</UpdateMediaCategoryResponse>
```

JSON

```
{
  "RequestId": "894A984A-CEC2-4784-B899-77A7414FD159"
```

```
}
```

13.5 UpdateMediaCover

The UpdateMediaCover API updates the media cover.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: UpdateMediaCover
MediaId	String	Yes	Media ID.
CoverURL	String	No	Media cover. The URL format follows the RFC 2396 standard and is subject to UTF-8 encoding and URL encoding. A URL consists of up to 3,200 bytes.

Response parameters

Parameter	Type	Description
Media	Media	Media

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?CoverURL=http%3A%2F%2Fzzyoutputbucket.oss-cn-hangzhou.aliyuncs.com%2F47b42486019c4f688bf144c1a6ba059a%252F0.jpg&MediaId=3e1cd21131a94525be55acf65888bf46&<public parameter>
```

Response example

XML

```
<UpdateMediaCoverResponse>  
  <RequestId>4BEB6635-FB40-4C26-B116-1CEE997FF99F</RequestId>
```

```
</UpdateMediaCoverResponse>
```

JSON

```
{
  "RequestId": "5428F518-F18E-440D-A000-5667C48599CF"
}
```

13.6 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: AddMediaTag
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"
}
```

```
}
```

13.7 DeleteMediaTag

The DeleteMediaTag API deletes a media tag.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: DeleteMediaTag
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

```
<DeleteMediaTagResponse>  
  <RequestId>1B8D2461-60D2-41B4-B9DA-FC8AC40B559D</RequestId>  
</DeleteMediaTagResponse>
```

JSON

```
{  
  "RequestId": "1B8D2461-60D2-41B4-B9DA-FC8AC40B559D"
```

```
}
```

13.8 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: UpdateMediaPublishState
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"
```

}

13.9 QueryMediaList

The QueryMediaList API queries media sets by media IDs.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: QueryMediaList
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>
  <NotExistMediaIds/>
  <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

```
{
```

```

    "NotExistMediaIds": {
      "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"
  }
}

```

13.10 QueryMediaListByURL

The QueryMediaListByURL API queries media sets by OSS file URLs.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: QueryMediaListByURL

Parameters	Type	Required or not	Description
FileURLs	String	Yes	A list of file URLs, · separated by commas (,). A maximum of 10 file URLs can be entered. · The URL format follows the RFC 3986 standard . (The URL is encoded by UTF-8 and the reserved characters are URL encoded characters.) A URL consists of up to 3,200 bytes.
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 or false. · Default value: false.

Response parameters

Name	Type	Description
MediaList	Media []	Media list
NotExistFileURLs	String[]	A list of nonexistent media resources

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?FileURLs=http%3A%2F%2Fzzzinput-test.oss-cn-hangzhou.aliyuncs.com%2Foutput-2016-01-07-09%253A37%253A17.mp485191.mp4&<public parameter>
```

Response example

XML

```
<QueryMediaListByUrlResponse>
  <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>135F7C8D-1E90-4163-8475-15497039B59D</RequestId>
  <NotExistFileURLs/>
```

</QueryMediaListByURLResponse>

JSON

```
{
  "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": "96E71ED6-491D-4515-9AB2-AB06AFF71F70",
  "NonExistFileURLs": {
    "FileURL": [ ]
  }
}
```

```
}
```

13.11 ListMedia

The ListMedia API lists all media resources, which are sorted by creation time in descending order.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: ListMedia
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.
From	String	No	Start time. - The date format follows the ISO8601 standard and uses UTC time. - Format: YYYY-MM-DDThh:mm:ssZ. - Example: 2014-01-10T12:00:00Z (January 10, 2014 at 20:00:00, Beijing time).

Parameters	Type	Required or not	Description
To	String	No	End time. - The date format follows the ISO8601 standard and uses UTC time. - Format: YYYY-MM-DDThh:mm:ssZ. - Example: 2014-01-11T12:00:00Z (January 11, 2014 at 20:00:00, Beijing time).

Response parameters

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

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com/?From=2014-01-10T12%3A00%3A00Z&To=2014-01-11T12%3A00%3A00Z&Action=ListMedia&<public parameter>
```

Response example

XML

```
<LisMediaResponse>
  <RequestId>58CBF1B8-048C-4550-B59C-F6EA57A8CEB6</RequestId>
  <NextPageToken>8c6ca184c0e47098a5b665e2a126797</NextPageToken>
  <MediaList list="true">
    <Media>
      <CreationTime>2016-09-20T05:26:48Z</CreationTime>
      <CoverURL>http://zzzinput-test.oss-cn-hangzhou.aliyuncs.com/
tail_comm-33.jpg</CoverURL>
      <RunIdList>
        <RunId>2490402d4a204f899a64473844e50a24</RunId>
      </RunIdList>
      <CateId>0</CateId>
      <Description>tag1,tag2</Description>
      <PublishState>UnPublish</PublishState>
```

```

        <File>
        <State>Normal</State>
        <URL>http://zzzinput-test.oss-cn-hangzhou.aliyuncs.com/
tail_comm-493.mp4</URL>
        </File>
        <MediaId>b2cb1183559e49ad81e767045624b9b8</MediaId>
        <Title>10</Title>
    </Media>
</MediaList>
</LisMediaResponse>

```

JSON

```

{
  "NextPageToken": "8c6ca184c0e47098a5b665e2a126797",
  "RequestId": "06CB45EF-903C-4464-A812-AD276948D5BB",
  "MediaList": {
    "Media": [
      {
        "CreationTime": "2016-09-20T05:26:48Z",
        "CoverURL": "http://zzzinput-test.oss-cn-hangzhou.
aliyuncs.com/tail_comm-33.jpg",
        "RunIdList": {
          "RunId": [
            "2490402d4a204f899a64473844e50a24"
          ]
        },
        "CateId": 0,
        "Description": "tag1,tag2",
        "PublishState": "UnPublish",
        "File": {
          "State": "Normal",
          "URL": "http://zzzinput-test.oss-cn-hangzhou.
aliyuncs.com/tail_comm-493.mp4"
        },
        "MediaId": "b2cb1183559e49ad81e767045624b9b8",
        "Title": "10"
      }
    ]
  }
}

```

14 Media category APIs

14.1 AddCategory

The AddCategory API adds a category.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: AddCategory
CateName	String	Yes	Category name, · which consists of up to 64 bytes. · UTF-8 encoding.
ParentId	Long	No	Parent category ID. If this parameter is not set, a level 1 category is generated by default. The root node category ID is -1.

Response parameters

Parameter	Type	Description
Category	Category	Category information

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?CateName=this%20is%20a%20new%20cate&&<public paramete>
```

Response example

XML

```
<AddCategoryResponse>
  <Category>
    <CateId>7503631</CateId>
    <ParentId>-1</ParentId>
    <CateName>this is a new cate</CateName>
    <Level>0</Level>
  </Category>
  <RequestId>E0DB3781-F1D7-4D77-A1EA-137F87F16E2C</RequestId>
</AddCategoryResponse>
```

JSON

```
{
  "Category": {
    "CateId": 7503631,
    "ParentId": -1,
    "CateName": "this is a new cate",
    "Level": 0
  },
  "RequestId": "E0DB3781-F1D7-4D77-A1EA-137F87F16E2C"
}
```

14.2 DeleteCategory

The DeleteCategory API deletes a category.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: DeleteCategory
CateId	Long	Yes	Category ID.

Response parameters

None

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?CateId=7503631&<public parameter>
```

Response example

XML

```
<DeleteCategoryResponse>
  <RequestId>79B1A82B-C299-49E9-AB67-189E0C1CEC49</RequestId>
</DeleteCategoryResponse>
```

JSON

```
{
  "RequestId": "79B1A82B-C299-49E9-AB67-189E0C1CEC49"
}
```

14.3 UpdateCategoryName

The UpdateCategoryName API updates a category name.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: UpdateCategoryName
CateId	String	Yes	Category ID.
CateName	String	Yes	Category name, · which consists of up to 64 bytes. · UTF-8 encoding.

Response parameters

None

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?CateId=7503631&&CateName=%E5%B0%91%E5%84%BF%E4%B8%8D%E5%AE%9C&<public parameter>
```

Response example

XML

```
<UpdateCategoryNameResponse>
  <RequestId>69310704-DC96-44C2-8B70-58048020EA7E</RequestId>
```

```
</UpdateCategoryNameResponse>
```

JSON

```
{
  "RequestId": "69310704-DC96-44C2-8B70-58048020EA7E"
}
```

14.4 CategoryTree

The CategoryTree API retrieves a category tree.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: CategoryTree

Response parameters

Parameter	Type	Description
CategoryTree	String	Category tree

Examples

Request example

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

Response example

XML

```
<CategoryTreeResponse>
  <CategoryTree>[{"CateId":3659747,"CateName":"Adult education
","ParentId":-1,"Level":0,"SubcateList":[{"CateId":8102754,"CateName
":"aaa","ParentId":3659747,"Level":1}]},{"CateId":4154805,"CateName
":"this is a new cate","ParentId":-1,"Level":0},{"CateId":7503631
,"CateName":"Not suitable for children","ParentId":-1,"Level":0}]</
CategoryTree>
  <RequestId>A68615EA-0CF5-420E-AB19-ACFABF794745</RequestId>
</CategoryTreeResponse>
```

JSON

```
{
```

```
"CategoryTree": "[{\"CateId\":3659747,\"CateName\":\"Adult
education\", \"ParentId\":-1, \"Level\":0, \"SubcateList\": [{\"CateId\":
8102754, \"CateName\":\"aaa\", \"ParentId\":3659747, \"Level\":1}], {\"
CateId\":4154805, \"CateName\":\"this is a new cate\", \"ParentId\":-
1, \"Level\":0}, {\"CateId\":7503631, \"CateName\":\"Not suitable for
children\", \"ParentId\":-1, \"Level\":0}]",
  "RequestId": "B74DFDF2-3214-43FD-9051-4E1A1544CF92"
}
```

14.5 ListAllCategory

The ListAllCategory API retrieves a category list.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	API of the action, system required parameter. Value: ListAllCategory

Response parameters

Parameter	Type	Description
Category	Category []	Category information

Examples

Request example

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

Response example

XML

```
<ListAllCategoryResponse>
  <RequestId>A7327D37-65F2-45BC-BD97-E5522BE3E5B9</RequestId>
  <CategoryList>
    <Category>
      <ParentId>-1</ParentId>
      <CateId>3659747</CateId>
      <CateName>Adult education</CateName>
      <Level>0</Level>
    </Category>
    <Category>
      <ParentId>-1</ParentId>
      <CateId>4154805</CateId>
      <CateName>this is a new cate</CateName>
      <Level>0</Level>
    </Category>
  </CategoryList>
</ListAllCategoryResponse>
```

```
<Category>
  <ParentId>-1</ParentId>
  <CateId>7503631</CateId>
  <CateName>Not suitable for children</CateName>
  <Level>0</Level>
</Category>
<Category>
  <ParentId>3659747</ParentId>
  <CateId>8102754</CateId>
  <CateName>aaa</CateName>
  <Level>1</Level>
</Category>
</CategoryList>
</ListAllCategoryResponse>
```

JSON

```
{
  "RequestId": "533A9B93-7CB4-4712-9065-A8A77E34F333",
  "CategoryList": {
    "Category": [
      {
        "ParentId": -1,
        "CateId": 3659747,
        "CateName": "Adult education",
        "Level": 0
      },
      {
        "ParentId": -1,
        "CateId": 4154805,
        "CateName": "this is a new cate",
        "Level": 0
      },
      {
        "ParentId": -1,
        "CateId": 7503631,
        "CateName": "Not suitable for children",
        "Level": 0
      },
      {
        "ParentId": 3659747,
        "CateId": 8102754,
        "CateName": "aaa",
        "Level": 1
      }
    ]
  }
}
```

15 Media bucket APIs

15.1 BindInputBucket

Binds the library to the input media bucket .



Note:

Behavior: After the library is bound to this Bucket, if the user completes the operation such as calling PutObject, a corresponding notification will be triggered and sent to MPS. It can be understood as adding a new trigger-like function on this OSS Bucket so that whenever there is an uploaded or deleted file in this Bucket, MPS will be notified to handle it.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	Operation interface name, system-defined parameter, value: BindInputBucket
Bucket	String	Yes	Bucket name, no more than 64 bytes

Response parameters

None

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?Bucket=watermark-zzz&<Public parameters>
```

Response example

XML

```
<BindInputBucketResponse>  
  <RequestId>740DD2EF-5452-4990-970D-5E3D87BFF201</RequestId>
```

```
</BindInputBucketResponse>
```

JSON

```
{
  "RequestId": "740DD2EF-5452-4990-970D-5E3D87BFF201"
}
```

15.2 BindOutputBucket

Bind the library to the output media bucket.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	Operation interface name, system-defined parameter, value: BindOutputBucket
Bucket	String	Yes	The media library outputs Bucket name, no more than 64 bytes.

Response parameters

None

Examples

Request example

```
http://mts.cn-hangzhou.aliyuncs.com?Bucket=watermark-zzz&<Public parameters>
```

Response example

XML

```
<Error>
  <RequestId>0A23F656-D3E6-4222-A2E8-449AD48C031D</RequestId>
  <Code>Bucket.AlreadyBind</Code>
  <Message>Bucket "watermark-zzz" already binded to media store,
  can not bind twice</Message>
```

```
</Error>
```

JSON

```
{
  "RequestId": "1DB03A02-C3E1-429C-A3DA-4BFDC4294534",
  "Code": "Bucket.AlreadyBind",
  "Message": "Bucket \"watermark-zzz\" already binded to media store
,can not bind twice "
}
```

15.3 ListAllMediaBucket

Lists all the media buckets in the library.

Request parameters

Parameters	Type	Required or not	Description
Action	String	Yes	Operation interface name, system-defined parameter. Value: ListAllMediaBucket
NextPageToken	String	No	Token of the next page. If you send a request for the first request, the token will be returned. Add the token when you send a request the second time.
MaximumPageSize	Integer	No	The maximum value of media bucket in response of the request. - Value range: [1, 100] - Default value: 50

Response parameters

Parameter	Type	Description
MediaBucket	MediaBucket []	Media Bucket List

Parameter	Type	Description
NextPageToken	String	Query the token of the next page.

Example

Request example

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

Response example

XML

```
<ListAllMediaBucketResponse>
  <RequestId>79760D91-D3CF-4165-8068-B7E2836EF62A</RequestId>
  <NextPageToken>BohcFbNNj7F0RcUsHx44Qx</NextPageToken>
  <MediaBucketList>
    <MediaBucket>
      <Type>Input</Type>
      <Bucket>watermark-zzz</Bucket>
    </MediaBucket>
    <MediaBucket>
      <Type>Output</Type>
      <Bucket>zzyoutputbucket</Bucket>
    </MediaBucket>
    <MediaBucket>
      <Type>Input</Type>
      <Bucket>zzzinput-test</Bucket>
    </MediaBucket>
  </MediaBucketList>
</ListAllMediaBucketResponse>
```

JSON

```
{
  "RequestId": "50B35FE9-18B2-45D6-B8C4-99D05E7570F6",
  "NextPageToken": "BohcFbNNj7F0RcUsHx44Qx"
  "MediaBucketList": {
    "MediaBucket": [
      {
        "Type": "Input",
        "Bucket": "watermark-zzz"
      },
      {
        "Type": "Output",
        "Bucket": "zzyoutputbucket"
      },
      {
        "Type": "Input",
        "Bucket": "zzzinput-test"
      }
    ]
  }
}
```

16 Appendix

16.1 Parameter details

This article introduces the details of the parameters.

Input

Parameter	Type	Required	Description
Bucket	String	Yes	OSS bucket that stores the input file. You must assign the read and write permissions on this bucket to Media Processing on the bucket authorization page in the resource control channel of the console. This parameter complies with the OSS bucket definition. For more information, see the definition of “bucket” in the glossary.

Parameter	Type	Required	Description
Location	String	Yes	Data center (also called OSS location) where the OSS bucket that stores the input file is located. This parameter complies with the OSS location definition. For more information, see the definition of “location” in the glossary.
Object	String	Yes	Name of the input file (an OSS object), which must be subject to URL encoding and UTF-8 encoding. This parameter complies with the OSS object definition. For more information, see the definition of “object” in the glossary.

Output

Parameter	Type	Required	Description
OutputObject	String	Yes	Name of the output file (an OSS object), • which must be subject to URL encoding and UTF-8 encoding. • Example of placeholder replacement: If the input file for transcoding is a/b/c.flv and OutputObject is set to %7BObjectPrefix%7D%7BFileName%7Dtest.mp4, then the output file is a/b/ctest.mp4. • The placeholder replacement rules are applicable to output file naming. - The following placeholders are supported by workflows : {ObjectPrefix} indicates the prefix of the input file name; {FileName}, the input file name ; {ExtName}, the input file name extension; {DestMd5}, the MD5 value of the output file

Parameter	Type	Required	Description
TemplateId	String	Yes	The transcoding template ID. Media Processing supports custom transcoding templates and preset transcoding templates.
WaterMarks	WaterMark[]	No	A list of watermarks formatted as a JSON array. For more information, see “5. Transcoding watermark parameters.” - The watermark array size limit is 20, indicating that up to 20 watermarks can be included in one output. - Example: [{"InputFile":{"Bucket":"example-bucket","Location":"oss-cn-hangzhou","Object":"example-logo.png"},"WaterMarkTemplateId":"88c6ca184c0e47098a5b665e2a126797"}]

Parameter	Type	Required	Description
Clip	String	No	Video clip, which is a JSON object. For more information, see “3. Clip.” Example: {"TimeSpan":{"Seek":"123.45","Duration":"3.45"}}}
Rotate	String	No	Video rotation angle. Value range: [0, 360). The rotation is clockwise.
Container	String	No	If this parameter is set, it overwrites the Container parameter in the specified transcoding template. For more information, see “7. Container.”
Video	String	No	If this parameter is set, it overwrites the Video parameter in the specified transcoding template. For more information, see Video .

Parameter	Type	Required	Description
Audio	String	No	If this parameter is set, it overwrites the Audio parameter in the specified transcoding template. For more information, see Audio .
AudioStreamMap	String	No	Audio stream sequence number. • Format: 0:a:{sequence number}. • The sequence starts with zero. • The sequence number indicates the subscript of the audio streams list. • Example: 0:a:0. • If this parameter is not set, the default audio stream is selected.
TransConfig	String	No	Transcoding process configuration. If this parameter is set , it overwrites the TransConfig parameter in the specified transcoding template. For more information, see “ 16. TransConfig.”

Parameter	Type	Required	Description
MergeList	String	No	Merging setting. Up to four MergeURLs. For more information, see “Merging.” • Example of a single merged part: [{"MergeURL": "http://jvm.oss-cn-hangzhou.aliyuncs.com/tail_comm_01.mp4"}] • Example of two merged parts: [{"MergeURL": "http://jvm.oss-cn-hangzhou.aliyuncs.com/tail_comm_01.mp4", "Start": "1", "Duration": "20"}, {"MergeURL": "http://jvm.oss-cn-hangzhou.aliyuncs.com/tail_comm_02.mp4", "Start": "5.4", "Duration": "10.2"}]

Parameter	Type	Required	Description
MergeConfigUrl	String	No	MergeConfigUrl and MergeList are mutually exclusive. • MergeConfigUrl supports up to 50 merged parts. • MergeConfigUrl indicates the URL of a merging configuration file. • Example: <code>http://jvm.oss-cn-hangzhou.aliyuncs.com/mergeConfigfile</code> • The merging configuration file must be stored in OSS and its access permission must be granted to Media Processing. For more information about the file content, see “27. Merging.” • The following is the sample content of mergeConfigfile: <pre> {"MergeList": [{"MergeURL": http://jvm.oss-cn-hangzhou.aliyuncs.com/tail_comm.mp4 }]} </pre>

Parameter	Type	Required	Description
MuxConfig	String	No	If this parameter is set, it overwrites the MuxConfig parameter in the specified transcoding template. For more information, see “MuxConfig.”
Priority	String	No	Task priority in the MPS queue. - Value range: [1, 10] - Highest priority: 10 - Default value: 6
UserData	String	No	Custom data, up to 1,024 bytes.
M3U8NonStandardSupport	String	No	M3U8 custom parameter support. The parameter value is a JSON object. For more information, see “M3U8 custom parameters.” Example: {"TS":{"Md5Support":true,"SizeSupport":true}}

Parameter	Type	Required	Description
Encryption	String	No	Data encryption, which only supports output in M3U8 format. • Example: {"Type": "hls-aes-128", "Key": "ZW5jcnlwdGlvbmtleTEyMw", "KeyType": "Base64", "KeyUri": "aHR0cDovL2FsaXl1bi5jb20vZG9jdW1lbnQvaGxzMTI4LmtleQ=="} • For more information, see “Encryption parameters.”

Parameter	Type	Required	Description
SubtitleConfig	String	No	Subtitle configuration, which is a JSON object. - For more information, see “SubtitleConfig”. - Example: { “ExtSubtitleList” :[{ “Input” :{ “Bucket” :” example-bucket” , “Location” :” oss-cn-hangzhou” , “Object” :” example.srt” }, “CharEnc” :” UTF-8” }]} }
OpeningList	String	No	Opening list. JSON format. - For more information, see “Opening”. - Example: [{ “OpenUrl” :” http://test-bucket.oss-cn-hangzhou.aliyuncs.com/opening.flv”, “Start” :” 1”, “Width” :” 1920”, “Height” :” 1080” }]

Parameter	Type	Required	Description
TailSlateList	String	No	Tail slate list, in JSON format. - For more information, see “TailSlate.” - Example: [{"TailUrl":"http://test-bucket.oss-cn-hangzhou.aliyuncs.com/tail.flv","Start":"1","BlendDuration":"2","Width":"1920","Height":"1080","IsMergeAudio":false,"BgColor":"White"}]
DeWatermark	String	No	Blurring watermark, JSON object. For more information, see DeWatermark.

Parameter	Type	Required	Description
Amix	String	否	Audio mixing. Scenarios: for example, to add background music ; and to mix two audio tracks of a video. Use the AudioStreamMap parameter to select the audio track of the input video for audio mixing. JSON list format, example: <pre>[{"AmixURL": "http://test-bucket.oss-cn-hangzhou.aliyuncs.com/audio.mp3", "Map": "0:a:0" ,</pre>

Clip

Parameter	Type	Required	Description
TimeSpan	String	No	Time span of a clip. For more information, see TimeSpan.
ConfigToClipFirstPart	Boolean	No	Whether to clip the first part. · false: (Default) Clip after merging · true: Merge after clipping the first part

TimeSpan

Parameter	Type	Required	Description
Seek	String	No	Start time, • Format: hh: mm: ss [. SSS], • Value range is [00:00:00.000, 23:59:59.999], or, • Format: sssss [. SSS], • Value range: [0.000, 86399.999] Example: 01:59:59.999 or 32000.23
Duration	String	No	Duration. • Format: hh: mm: ss [. SSS], • Value range is [00:00:00.000, 23:59:59.999], or, • Format: sssss[. SSS], • Value range is [0.000, 86399.999]. Example: 01:00:59.999 or 32000.23

Parameter	Type	Required	Description
End	String	No	Duration truncated in the end. The Duration parameter is invalid if this parameter is set. • Format: hh:mm:ss[. SSS] • Value range: [00:00.000, 23:59:59.999], or • Format: sssss[. SSS], • Value range: [0.000, 86399.999]. Example: 01:00:59.999 or 32000.23

Transcoding watermark parameter

Parameter	Type	Required	Description
WaterMarkTemplateId	String	No	Watermark template ID. If this parameter is not set, the following default settings are applied: • The watermark position is TopRight; • offsets Dx and Dy are 0; • The watermark width is 0. 12 times the resolution width of the output video; • The watermark height scales proportionally relative to watermark width.
InputFile	String	Yes	Input watermark file. • For more information, see the description of InputFile. • Currently, images in PNG format and files in MOV format can be input as watermarks.

Parameter	Type	Required	Description
Width	String	No	If this parameter is set, it overwrites the watermark width setting of the watermark template. The parameter value can be an integer or a decimal number. · In integer form, this parameter indicates the watermark image width in pixels; - Value range: [8, 4096]. - Unit: Px · In decimal number form, this parameter indicates a ratio relative to the resolution width of the output video; - Value range: (0, 1). - Up to four digits are allowed after the decimal point, for example, 0.9999, and excessive digits are automatically dropped.

Parameter	Type	Required	Description
Height	String	No	If this parameter is set, it overwrites the watermark height setting of the watermark template. The parameter value can be an integer or a decimal number. · In integer form, this parameter indicates the watermark image height in pixels. - Value range is [8, 4096]. - Unit: Px. · In decimal number form, this parameter indicates a ratio relative to the resolution height of the output video. - Value range: (0, 1). - Up to four digits are allowed after the decimal point, for example, 0.9999, and excessive digits are automatically dropped.

Parameter	Type	Required	Description
Dx	String	No	If this parameter is set, it overwrites the Dx parameter of the watermark template. This parameter indicates the horizontal offset of the watermark image relative to the output video. Default value: 0. The parameter value can be an integer or a decimal number. · In integer form, this parameter indicates the number of offset pixels. - Value range: [8, 4096]. - Unit: Px, · In decimal number form, this parameter indicates the ratio of horizontal offset to the resolution width of the output video. - Value range: (0, 1). - Up to four digits are allowed after the decimal point, for example, 0.9999, and excessive digits are automatically dropped

Parameter	Type	Required	Description
Dy	String	No	If this parameter is set, it overwrites the Dy parameter of the watermark template. This parameter indicates the vertical offset of the watermark image relative to the output video. Default value: 0. The parameter value can be an integer or a decimal number. · In integer form, this parameter indicates the number of offset pixels. - Value range: [8, 4096]. - Unit: Px, · In decimal number form, this parameter indicates the ratio of vertical offset to the resolution height of the output video. - Value range: (0, 1). - Up to four digits are allowed after the decimal point, for example, 0.9999, and excessive digits are automatically dropped

Parameter	Type	Required	Description
ReferPos	String	No	If this parameter is set, it overwrites the ReferPos parameter of the watermark template. It indicates the watermark position and can be set to TopRight, TopLeft, BottomRight, or BottomLeft.
Type	String	No	If this parameter is set, it overwrites the Type parameter of the watermark template. It indicates the watermark type and can be set to Image or Text. • Image: image watermark, • Text (text watermark). • Default value: Image.  Note: If it is set to Text, the TextWaterMark parameter must be set. Text: Text watermark.

Parameter	Type	Required	Description
Timeline	String	No	If this parameter is set, it overwrites the Timeline parameter of the watermark template. It indicates a dynamic watermark. For more information, see the description of Timeline.
TextWaterMark	String	No	Text watermark configuration, which is a JSON object. This parameter must be set if Type is set to Text. - For more information, see “37. Text watermark parameters.” Example: <pre>{ "Content": "5rWL6K+V5paH5a2X5rC05Y2w", "Top": 2, "Left": 10 }</pre> - Example: { <pre>"Content": "5rWL6K+V5paH5a2X5rC05Y2w", "Top": 2, "Left": 10}</pre>

Watermark template configuration

Parameter	Type	Required	Description
Width	String	No	Width of the watermark image in the output video. The parameter value can be an integer or a decimal number. · In integer form, this parameter indicates the watermark image width in pixel. - Value range: [8, 4096]. - Unit: Px; · In decimal number form, this parameter indicates a ratio relative to the resolution width of the output video. - Value range: (0, 1). - Up to four digits are allowed after the decimal point, for example, 0.9999, and excessive digits are automatically dropped.

Parameter	Type	Required	Description
Height	String	No	Height of the watermark image in the output video. The parameter value can be an integer or a decimal number. · In integer form, this parameter indicates the watermark image height in pixels. - Value range: [8, 4096], unit: px. · In decimal number form, this parameter indicates a ratio relative to the resolution height of the output video. - Value range: (0, 1). - Up to four digits are allowed after the decimal point, for example, 0 .9999, and excessive digits are automatically dropped.

Parameter	Type	Required	Description
Dx	String	No	Horizontal offset of the watermark image relative to the output video. Default value: 0. The parameter value can be an integer or a decimal number. · In integer form, this parameter indicates the number of offset pixels. - Value range: [8, 4096]. - Unit: Px; · In decimal number form, this parameter indicates the ratio of horizontal offset to the resolution width of the output video. - Value range: (0, 1). - Up to four digits are allowed after the decimal point, for example, 0.9999, and excessive digits are automatically dropped.

Parameter	Type	Required	Description
Dy	String	No	Vertical offset of the watermark image relative to the output video. Default value: 0. The parameter value can be an integer or a decimal number. · In integer form, this parameter indicates the number of offset pixels. - Value range: [8, 4096]. - Unit: Px; · In decimal number form, this parameter indicates the ratio of vertical offset to the resolution height of the output video. - Value range: (0, 1). - Up to four digits are allowed after the decimal point, for example, 0.9999, and excessive digits are automatically dropped.

Parameter	Type	Required	Description
ReferPos	String	No	Watermark position. · This parameter can be set to TopRight, TopLeft, BottomRight, or BottomLeft. · Default value: TopRight.
Type	String	No	Watermark type. This parameter can be set to Image or Text. · Default value: Image. · Currently, only the Image type is supported.
Timeline	String	No	Dynamic watermark. For more information, see the description of Timeline.

Description of the Width and Height parameters:

- When neither the Width nor the Height parameter is set, the watermark width is 0.12 times the resolution width of the output video and the watermark height scales proportionally according to the aspect ratio of the original watermark image.
- When either the Width or the Height parameter is set, the unspecified side scales proportionally according to the aspect ratio of the original watermark image.
- When the Width and Height parameters are set, the watermark image is set based on actual values.

Description of watermark coordinates:

Container

Parameter	Type	Required	Description
Format	String	No	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. • Image supports gif and webp formats. • When the container format is gif, Video Codec can only be set as GIF. • When the container format is webp, Video Codec can only be set as WEBP. • When the container format is flv, Video Codec cannot be set as H. 265.

Video

Parameter	Type	Required	Meaning	Description
Codec	String	No	Codec format	Optional values: H. 264, H. 265, GIF, webp. Default value: H. 264

Parameter	Type	Required	Meaning	Description
Profile	String	No	Encoding level	Optional values: baseline, main, and high. Default value: high · baseline: applicable to mobile devices. · main: applicable to standard-definition (SD) devices. · high: applicable to high-definition (HD) devices. Best practice : If multiple definitions exist, we recommend that you set Profile to baseline for the lowest definition to guarantee normal play on low-end devices, and set Profile to main or high for other definitions.  Note: Currently, this parameter is only supported by H. 264.

Parameter	Type	Required	Meaning	Description
Bitrate	String	No	Bit rate of the output video file	- Value range: [10,50000] - Unit: kbps
Crf	String	No	which is a quality control factor.	- Value range: [0, 51] - Default value: 26  Note: The Bitrate parameter is invalid if the Crf parameter is set.
Width	String	No	Width	- Default value: original video width. - Value range: [128, 4096]. - Unit: Px
Height	String	No	Height	- Default value: original video height. - Value range: [128, 4096]. - Unit: Px

Parameter	Type	Required	Meaning	Description
Fps	String	No	Frame rate	• Default value: frame rate of the input file. • If the frame rate of the input file is greater than 60, the value still takes 60. • Value range: (0, 60]. • Unit: fps.
GOP	String	No	Maximum time interval or maximum number of frames between two key frames.	Maximum time interval, the unit second is required to be entered. • Default value: 10s. • Maximum number of frames between two key frames: no unit. • Value range: [1,100000]

Parameter	Type	Required	Meaning	Description
Preset	String	No	Preset video algorithm	Optional values: veryfast, fast, medium, slow, and slower. Default value: medium  Note: Currently, this parameter is only supported by H. 264.
ScanMode	String	No	Scan mode	Optional values : interlaced and progressive.
Bufsize	String	No	Buffer size	- Value range: [1000,128000] - Default value: 6000 - Unit: Kb
Maxrate	String	No	Peak video bit rate	Value range [10 ,50000], in kbps .
PixFmt	String	No	Video color format	Optional values: yuv420p, yuvj420p, and other standard color formats. Default value : yuv420p or original color format.

Parameter	Type	Required	Meaning	Description
Remove	String	No	Whether to delete video streams	· true (delete video streams), · and false (retain video streams). · Default value: false.
Crop	String	No	Video cropping	Two cropping methods are supported. · Automatically detect and crop black borders (Crop is set to “border”); · Custom cropping, in which case the parameter value is in the format of width:height:left:top. Example: 1280:800:0:140
Pad	String	No	Pad video with black borders	Parameter value format: width:height:left:top. Example: 1280:800:0:140

Parameter	Type	Required	Meaning	Description
Longfig Mode	String	No	Whether to enable auto-rotate screen (that is long edge and short edge mode).	• The width of the transcoding output corresponds to the long edge of the input source (The vertical screen is height of the source). • The height corresponds to the short edge of the input video (The vertical screen is width of the source). • True indicates enabled. • False indicates disabled. Default value: false.

The following table lists the supported combinations of video transcoding codec formats and container formats.

Container	Audio codecs	Video Codecs
flv	AAC, MP3	H.264
mp4	AAC, MP3	H.264, H. 265
ts	AAC, MP3	H.264, H. 265
m3u8	AAC, MP3	H.264, H. 265
gif	Not supported	GIF

The following table lists the supported combinations of video codec formats and video stream parameters.

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	Audio codec format: AAC, MP3, VORBIS, and FLAC. Default value: AAC.
Profile	String	No	Preset audio encoding. Optional values when Codec is set to AAC: aac_low, aac_he, aac_he_v2, aac_ld, and aac_eld.

Parameter	Type	Required	Description
Samplerate	String	No	Sampling rate. • Default value: 44100. • Optional value : 22050, 32000, 44100, 48000, and 96000. • Unit: Hz.  Note: • When the video container format is FLV and the audio codec format is MP3, Samplerate cannot be set to 32000, 48000, or 96000. • When the audio codec format is MP3, Samplerate cannot be set to 96000.
Bitrate	String	No	Audio bit rate of the output file. • Value range: [8, 1000], • Unit: kbps • Default value: 128

Parameter	Type	Required	Description
Channels	String	No	Number of sound channels. Default value: 2  Note: It can be set to either 1 or 2 when Codec is set to mp3. Or it can be set to 1, 2, 4, 5, 6, or 8 when Codec is set to acc.
Remove	String	No	Whether to delete audio streams. - true (delete video streams), - and false (retain video streams). - Default value: false.

The following table lists the supported combinations of audio transcoding codec formats and container formats.

Container	Audio Codecs
mp3	MP3
mp4	AAC
ogg	VORBIS, FLAC
flac	FLAC

Snapshotconfig

Parameter	Type	Required	Description
Format	String	No	Screenshots data type. · Default value: null. · VTT can be specified to represent output webvtt.

Parameter	Type	Required	Description
BlackLevel	String	No	This parameter specifies the black pixel threshold that is used to detect black frames in the first screenshot for multi-screenshot capture. · No default value is available. · Value range: [30, 100] The smaller the value, the fewer black pixels in a frame. · If the screenshot capture time specified by the Time parameter is greater than 0 , the BlackLevel setting does not take effect and black frame filtering is not performed. · If the screenshot capture time is 0 and the number of screenshots specified by the Num parameter is greater than 1 , the BlackLevel setting takes effect. If the black pixel proportion of the captured frame is lower than the threshold
Issue: 20190214			, the frame is used directly. If the black pixel proportion of the

Parameter	Type	Required	Description
OutputFile	String	Yes	Output file, which is a JSON object. For more information, see “38. Screenshot OutputFile.”

Parameter	Type	Required	Description
TileOutputFile	String	No	The output file, which is a JSON object, and the structure is the same as the OutputFile. - The format of the screenshot output file is jpg, if the asynchronous mode sequence tile is used, and the value of Num does not equal 1, then the Object of TileOutput File must include {TileCount}, so as to differentiate the output address of multiple output images in sequence screenshot. For example : 3 images are output in sequence screenshot, the Object of TileOutputFile is {TileCount}.jpg, then the Object of output screenshot are 00001.jpg, 00002.jpg, and 00003.jpg respectively. - This parameter is required in the tile configuration. TileOutput File indicates the large image address that is

Parameter	Type	Required	Description
Time	String	Yes	Time for screenshots. Unit: milliseconds.
Interval	String	No	Screenshot interval. · If this parameter is set, screenshots are taken in sequence asynchronously. The value must be greater than 0. · Default value: 10. · Unit: seconds · If Interval is set to 0, screenshots are taken at even intervals based on the video duration.

Parameter	Type	Required	Description
Num	String	No	Screenshot quantity. If this parameter is set, screenshots are taken in sequence asynchronously. The value must be greater than 0. - When the duration calculated by $\text{Time} + \text{Interval} \times \text{Num}$ exceeds the video duration, screenshots are no longer taken beyond the calculated duration and the number of actual screenshots taken is returned. - When num = 1, the interval parameter is ignored, representing an asynchronous single capture.
Width	String	No	Width of the output screenshot image. - Unit: Px - Value range: [8, 4096].

Parameter	Type	Required	Description
Height	String	No	Height of the output screenshot image. - Unit: Px - Value range: [8, 4096].
FrameType	String	No	Screenshot type. - normal (normal frame), - and intra (I frame). Default value: intra
Tileout.	String	No	Tile configuration. JSON object. For more information, see TileOut.
SubOut	String	No	Webvtt tile configuration, JSON object. For more information, see SubOut.

Segment

Parameter	Type	Required	Description
Duration	String	No	Segment time length. - Integer. - Unit: seconds - Value range: [1, 60] Default value: 10 seconds

Parameter	Type	Required	Description
ForceSegTime	String	No	A list of up to 10 segment time points, separated by commas (,). · Decimal, support three decimal digits · Unit: seconds · For example, 23,55,60 indicates processing segments at the 23th, 55th, and 60th seconds.

TransConfig

Parameter	Type	Required	Description
TransMode	String	No	Transcoding mode. · Default value: onepass · Optional value: onepass, twopass, CBR.
AdjDarMethod	String	No	Resolution rewrite mode. · Default value: none · Optional value : rescale, crop, pad, none.

Parameter	Type	Required	Description
IsCheckReso	String	No	Whether to check resolution. · The output resolution is equal to the input resolution if the former is greater than the latter (which is determined based on width or height). true indicates check resolution. · false indicates not check resolution. · Default value: false.
IsCheckResoFail	String	No	Whether to check resolution. · An error indicating transcoding failure is returned if the output resolution is greater than the input resolution (which is determined based on width or height). · true: indicates check resolution. · false indicates not check resolution. · Default value: false.

Parameter	Type	Required	Description
IsCheckVideoBitrate	String	No	Whether to check video bit rate. · The output video bit rate is equal to the input video bit rate if the former is greater than the latter. · true indicates check resolution. · false indicates not check resolution. · Default value: false.
IsCheckAudioBitrate	String	No	Whether to check the audio bit rate. · The output audio bit rate is equal to the input audio bit rate if the former is greater than the latter. · true: indicates check resolution. · false: indicates not check resolution. · Default value: false.

Parameter	Type	Required	Description
isCheckAudioBitrateFail	String	No	This parameter indicates the processing when the output video bit rate is greater than the media source video bit rate. · If it is set to “true” , transcoding is not performed; · if it is set to “false” , checking is not performed. · Default value: false. · This parameter takes precedence over IsCheckVideoBitrate.
isCheckVideoBitrateFail	String	No	This parameter indicates the processing when the output video bit rate is greater than the media source video bit rate. · If it is set to “true” , transcoding is not performed; · if it is set to “false” , checking is not performed. · Default value: false. · This parameter takes precedence over IsCheckVideoBitrate.

Position of the AdjDarMethod parameter:**MuxConfig**

Parameter	Type	Required	Description
Segment	String	No	Segment configuration, which is a JSON object. • For more information, see “14. Segment.” • Example: <code>{"Duration": "34"}</code>

NotifyConfig

Parameter	Type	Required	Description
QueueName	String	No	MNS queue created in Alibaba Cloud Message Service. • Media Processing allows you to bind an MNS queue to an MPS queue. After a task is executed in the MPS queue, the results are sent to the bound MNS queue. • For more information about how to acquire messages in the MNS queue, see Queue message operation. • Before you configure an MNS queue in the MPS queue, create the MNS queue in Message Service. • Before you configure an MNS queue in the MPS queue, create the MNS queue in Message Service.

Parameter	Type	Required	Description
Topic	String	No	Topic created in Alibaba Cloud Message Service. • Media Processing allows you to bind a topic to an MPS queue . After a task is executed in the MPS queue, the results are sent to the bound topic, • and then the topic pushes the results in the form of a message to the subscribed address. • Before you configure a topic in a message queue, create a topic in Message Service.  Note: This function is currently under a public beta test.

Transcoding task input

Parameter	Type	Required	Description
Bucket	String	Yes	OSS bucket that stores the input file. · You must assign the read and write permissions on this bucket to Media Processing on the bucket authorization page in the resource control channel of the console. · This parameter complies with the OSS bucket definition. For more information, see the definition of “bucket” in the glossary.
Location	String	Yes	Data center (also called OSS location) where the OSS bucket that stores the input file is located. This parameter complies with the OSS location definition. For more information, see the definition of “location” in the glossary.

Parameter	Type	Required	Description
Object	String	Yes	Name of the input file (an OSS object), • which must be subject to URL encoding and UTF-8 encoding. • This parameter complies with the OSS object definition. For more information, see the definition of “object” in the glossary.
Audio	String	No	Audio configuration of the source media file, which is a JSON object.  Note: This parameter must be set when the input file is in ADPCM or PCM format. • For more information, see “InputAudio.” • Example: <code>{"Channels": "2", "Samplerate": "44100"}</code>

Parameter	Type	Required	Description
Container	String	No	Container configuration of the source media file, which is a JSON object.  Note: This parameter must be set when the input file is in ADPCM or PCM format. - For more information, see “InputContainer.” - Example: <code>{"Format": "u8"}</code>

InputContainer

Parameter	Type	Required	Description
Format	String	Yes	Source media audio format. Optional 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	Number of source media audio channels. Value range: [1,8]

Parameter	Type	Required	Description
Samplerate	String	Yes	Source media audio sampling rate. · Value range: (0, 320000]. · Unit: Hz.

AnalysisConfig

Parameter	Type	Required	Description
QualityControl	String	No	Output quality control, which is a JSON object. For more information, see “QualityControl.”
PropertiesControl	String	No	Attribute control, which is a JSON object. For more information, see “PropertiesControl.”

QualityControl

Parameter	Type	Required	Description
RateQuality	String	No	Output quality level. · Value range: (1, 51]. · The value is an integer. · Default value: 25.
MethodStreaming	String	No	Play mode; optional values: network and local. Default value: network

PropertiesControl

Parameter	Type	Required	Description
Deinterlace	String	No	Forced scan mode determination. • Auto: Automatic. • Force: Force the Deinterlace action. • None: Disable the Deinterlace action.
Crop	String	No	Video cropping configuration. • Default value: auto • The Mode parameter is required if this parameter is set (not a blank JOSN {}). • For more information, see “Crop.”

Crop

Parameter	Type	Required	Description
Mode	String	No	Value: • Auto: automatic, • Force: force the Crop action, • None: disable the Crop action. This parameter is required if the Crop parameter is set (not a blank JOSN{}).

Parameter	Type	Required	Description
Width	Integer	No	Width after cutting. • Value range: [8, 4096]. • This parameter is invalid if Mode is set to Auto or None.
Height	Integer	No	Height after cropping. • Value range: [8, 4096]. • This parameter is invalid if Mode is set to Auto or None.
Top	Integer	No	Top margin for cropping. • Value range: [8, 4096]. • This parameter is invalid if Mode is set to Auto or None.
Left	Integer	No	Left margin for cropping. • Value range: [8, 4096]. • This parameter is invalid if Mode is set to Auto or None.

TransFeatures

TransFeatures	Type	Required	Description
MergeList	String	No	Video merging setting, • which is formatted as a JSON array. A json array that supports up to four MergeURLs. • For more information, see “Merging.” • Example: [{ “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”}]

Merging

Parameter	Type	Required	Description
MergeURL	String	Yes	Merged part address. • Example: http://example-bucket.oss-cn-hangzhou.aliyuncs.com/example-object.flv • The object name must be subject to URL encoding and UTF-8 encoding.
Start	String	No	Start time. • Format: hh:mm:ss[. SSS] or sssss [. SSS], • Example: 01:59:59.999 or 32000.23
Duration	String	No	Duration. • Format: hh:mm:ss[. SSS] or sssss [. SSS], • Example: 01:59:59.999 or 32000.23

Task output file

Parameter	Type	Required	Description
URL	String	No	OSS URL of the input file. · Example: <code>http://example-bucket.oss-cn-hangzhou.aliyuncs.com/example.flv</code> · The Bucket, Location, and Object parameters are required if this parameter is not set.

Parameter	Type	Required	Description
Bucket	String	No	· This parameter is required if the URL parameter is not set. · If the URL parameter is set , this parameter is invalid. You must assign the read and write permissions on this bucket to Media Processing on the bucket authorization page in the resource control channel of the console. · This parameter complies with the OSS bucket definition. For more information, see the definition of “bucket” in the glossary.

Parameter	Type	Required	Description
Location	String	No	· This parameter is required if the URL parameter is not set. · If the URL parameter is set, this parameter is invalid. Data center (also called OSS location) where the OSS bucket that stores the output file is located. · This parameter complies with the OSS location definition. For more information, see the definition of “location” in the glossary.

Parameter	Type	Required	Description
Object	String	No	· This parameter is required if the URL parameter is not set. · If the URL parameter is set , this parameter is invalid. Name of the output file (an OSS object), which must be subject to URL encoding and UTF-8 encoding. · This parameter complies with the OSS object definition. For more information, see the definition of “object” in the glossary.

Support for M3U8 custom parameters

Parameter	Type	Required	Description
TS	String	No	Custom parameter support related to TS files. The parameter value is a JSON object. For more information, see “30. TS parameter support.”

TS parameter support

Parameter	Type	Required	Description
Md5Support	Boolean	No	Whether to support TS-specific MD5 value output to M3U8 files.
SizeSupport	Boolean	No	Whether to support TS file size output to M3U8 files.

Timeline parameters

Parameter	Type	Required	Description
Start	String	No	Start time of watermark appearance. • Unit: seconds • Value range: number. • Default value: 0.
Duration	String	No	Duration when the watermark persists. • Value range: [number, ToEND] • Default value: ToEND

Encryption parameters

Parameter	Type	Required	Description
Type	String	Yes	Value: hls-aes-128

Parameter	Type	Required	Description
Key	String	Yes	Video encryption key. · The parameter value must be encrypted using the method indicated by the KeyType parameter. · For example , if the key is “encryption key128” , it is encrypted into (“encryption key128”) by Base64 or into (Base64 (“encryption key128”)) by KMS.
KeyUri	String	Yes	Key access URL, which is encrypted by Base64

Parameter	Type	Required	Description
KeyType	String	Yes	The encryption key must be encrypted by Base64 or KMS when being transferred to Media Processing.  Note: If you use KMS, contact us to acquire the primary key. Base64 is the basic encryption mode, whereas KMS performs encryption based on Base64.

SubtitleConfig

Parameter	Type	Required	Description
ExtSubtitleList	ExtSubtitle[]	No	A list of up to four external subtitles, which is a JSON array. - For more information, see “ExtSubtitle.” - Example: [{ “Input” :{ “Bucket” :” example-bucket” , “Location” :” oss-cn-hangzhou” , “Object” :” example.srt” }, “CharEnc” :” UTF-8” }]

ExtSubtitle

Parameter	Type	Required	Description
Input	String	Yes	External input subtitle file, which is a JSON object. - The supported formats include SRT and ASS. - For more information, see “Input.” - Example: { “Bucket” : “example-bucket” , “Location” : “oss-cn-hangzhou” , “Object” : “example.srt” }  Note: - Currently, { ObjectPrefix}, { FileName}, and {ExtName} can be dynamically replaced. - For example , if the input file object for transcoding is a /b/c/test.flv, - the subtitle file can be expressed as { ObjectPrefix}{ FileName}-cn.srt based on dynamic rules . URL encoding is required . The Object parameter is set to %7bObjectPrefix%7d%7bFileName

Parameter	Type	Required	Description
CharEnc	String	No	External subtitle character encoding. - Optional values : UTF-8, GBK, BIG5, and Auto. - Default value: auto,  Note: A check error may occur if this parameter is set to Auto; We recommend that you specify a character encoding method.

Opening

Parameter	Type	Required	Description
OpenUrl	String	Yes	Opening URL, which is an OSS address.
Start	String	No	Start time relative to the main video. - The opening video is displayed after how long starting from 0. - Unit: seconds - Default value: 0.

Parameter	Type	Required	Description
Width	String	No	Width. · Value range: (0, 4096). · -1, full - -1 indicates the value of the program source, - and “full” indicates filling up the screen. · Default value: -1.
Height	String	No	Height · Value range: (0, 4096). · -1, full, - -1 indicates the value of the program source, - and “full” indicates filling up the screen. · Default value: -1.

TailSlate

Parameter	Type	Required	Description
TailUrl	String	Yes	Tail slate URL, which is an OSS address.

Parameter	Type	Required	Description
BlendDuration	String	No	The duration of transition from the main video to the ending scene. The effect of transition is fade-in and fade-out: The last frame of the main video is displayed, and the ending scene is played at the same time. The last frame of the main video gradually fades out while the ending scene fades in. Unit : seconds, default value: 0.
Width	String	No	Width; optional values: (0, 4096), -1, and full. -1 indicates the value of the program source, and “full” indicates filling up the screen. Default value: -1.
Height	String	No	High, range (0,,)-1, full,-1 represent the value of the source , full indicates the fill screen. The default value is -1.
IsMergeAudio	Boolean	No	Whether to merge sample audios. Default value: true.

Parameter	Type	Required	Description
BgColor	String	No	Specifies the background color to fill up the blank when the width or height of the ending scene is smaller than that of the main video. Default color: White. For more information, see bgcolor .

Text watermark parameters

Parameter	Type	Required	Description
Content	String	Yes	Text watermark content, which must be Base64 encoded. For example, if you want to add the text watermark “test text watermark” , set this parameter to 5rWL6K+V5paH5a2X5rC05Y2w.
FontName	String	No	Default value: “SimSun” . For more information, see Supported font .
FontSize	Int	No	Font size. · Default value: 16. · Value range: (4, 120).

Parameter	Type	Required	Description
FontColor	String	No	Font color. For more information about the optional values, see FontColor .
FontAlpha	Int	No	Font transparency. - Value range: (0, 1]. - Default value: 1.0
Top	Int	No	Top margin of the text. - Default value: 0. - Value range: [8, 4096].
Left	Int	No	Left margin of text. - Default value: 0 - Value range: [8, 4096].
BorderWidth	Int	No	Stroke width. - Default value: 0 - Value range: [8, 4096].
BorderColor	String	No	Stroke color. - Default value: Black - For more information about the optional values, see BorderColor.

Screenshot OutputFile

Parameter	Type	Required	Description
Bucket	String	Yes	OSS bucket that stores the output screenshot file. This parameter complies with the OSS bucket definition. For more information, see the definition of “bucket” in the glossary.
Location	String	Yes	Data center (also called OSS location) where the OSS bucket that stores the output screenshot file is located. This parameter complies with the OSS location definition. For more information, see the definition of “location” in the glossary.

Parameter	Type	Required	Description
Object	String	Yes	Name of the output screenshot file (an OSS object). - JPG format, which must be subject to URL encoding and UTF-8 encoding. Example of placeholder replacement: If the input screenshot file is a/b/c.flv and Object is set to %7BObjectPrefix%7D%7BFileName%7D%7BCount%7D.jpg, then the output screenshot files are a/b/c00001.jpg, a/b/c00002.jpg, and so on. The placeholder replacement rules are applicable to output screenshot file naming. - The following placeholders are supported by workflows : {ObjectPrefix} indicates the prefix of the input file name ; {FileName}, the input file name; {ExtName}, the input file name extension ; {SnapshotTime}, the screenshot taking time; {Count}, a specific screenshot

TileOut

Parameter	Type	Required	Description
Lines	String	No	Picture-tiling lines. · Integer. · Value range: (0, 1,000] · Default value: 10
Columns	String	No	Picture-tiling columns. · Integer. · Value range: (0, 1,000] · Default value: 10.
CellWidth	String	No	The width of a single picture. The width of the screenshot output resolution by default.
CellHeight	String	No	The height of a single picture. The height of the screenshot output resolution by default.
Margin	String	No	The width of the margin. · Default value: 0. · Unit: Px.
Padding	String	No	The picture space , default value: 0, unit: px.

Parameter	Type	Required	Description
Color	String	No	Background color. - Value range: color keyword, random. - Default value: Black. - Color keyword supports three formats. For example, for black, “Black”, “black” and “#000000” are supported.
IsKeepCellPic	String	No	Whether the picture is kept. - Value range: true, false. - Default value: true.

MultiBitrateVideoStream

Parameter	Type	Required	Description
URI	String	No	The output name of the video bitstream, which must end with .m3u8. For example, a/b/test.m3u8, format: <code>^[a-z]{1}[a-z0-9.-/]+\$</code>

ExtXMedia

Parameter	Type	Required	Description
Name	String	Yes	Required, description, corresponding to NAME of HLS V5 protocol, 64 bytes at most, UTF-8.
Language	String	No	Optional, language type, RFC5646, corresponding to LANGUAGE of HLS V5 protocol.
URI	String	Yes	Required, resource path. Example: a/b/c/d/audio-1.m3u8, Format: ^[a-z]{1}[a-z0-9. /-]+\$

MasterPlayList

Parameter	Type	Required	Description
MultiBitrateVideoStreams	JSONArray	Yes	Multi-bitstream array. · For more information, see MultiBitrateVideoStream. Example: [["RefActivityName" : "video-1" , " ExtXStreamInfo" { "BandWidth" : "111110" , " Audio" : "auds" , " Subtitles" : "subs" }]]

MultiBitrateVideoStream

Parameter	Type	Required	Description
RefActivityName	String	Yes	The name of the associated activity.
ExtXStreamInfo	Json	Yes	The bitstream feature. - For more information, see ExtXStreamInfo. - Example: { “BandWidth” : “111110” ,” Audio” : “auds” ,” Subtitles” : “subs” }

ExtXStreamInfo

Parameter	Type	Required	Description
BandWidth	String	Yes	Bandwidth. The upper limit of the total bitrate , required, which corresponds to BANDWIDTH of HLS V5 protocol.
Audio	String	No	The ID of the audio streams group. Optional, which corresponds to AUDIO of HLS V5 protocol.
Subtitles	String	No	The ID of the subtitle stream groups. Optional, which corresponds to SUBTITLES of HLS V5 protocol.

SubOut Webvtt

Parameter	Type	Required	Description
IsSptFrag	String	No	Whether the picture is tiled out. • True indicates tiling out. • Default value: false.

DeWatermark

JSON:

```
{
  "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
    }
  ]
}
```

pts: Character, indicating the timestamp of object frame. Unit: millisecond (s).

- L: Number, indicating the left margin of the region to be blurred.
- T: Number, indicating the top margin of the region to be blurred.
- W: Number, indicating the width of the region to be blurred.
- H: Number, indicating the height of the region to be blurred.

When values of T, L, W and H are larger than one, they indicate absolute pixel value.

Otherwise, they indicates percentage values corresponding to source video resolution

. Whether the values of T, L, W and H are percentage values or absolute values, they are rounded down in the final treatment.

In the previous demo, the corresponding descriptions of the pts (0, 128000, 250000) are as follows:

- Starting from 0ms, the system performs dewatermarking treatment on the Logo which is 10##10 pixel in size and 10X10 pixel from the upper-left corner, as well as on the Logo which is 10X10 pixel in size and has a left margin of 100 pixel and top margin of 0.1##(src_height).
- Until 128000ms, the system doesnot stop performing dewatermarking treatment on the Logo, that is, [0~128000] is the time range when the Logo is blurred.
- Starting from 250000ms, the system performs dewatermarking treatment on the Logo which is 0.01##(src_width) in width, 0.05##(src_height) in height, and has a left margin of 0.2##(src_width) and top margin of 0.1##(src_height).

AdaptationSet

Parameter	Type	Required	Description
Group	String	Yes	Required, group name, as in Dash File: <pre><Adaptation Set group=" videostreams" mimeType="video /mp4" par="4096 :1744" minBandwid th="258157" maxBandwidth ="10285391" minWidth="426" maxWidth="4096" minHeight=" 180" maxHeight ="1744" segmentAli gnment="true" startWithSAP=" 1"></pre>
Lang	String	No	Language. Can be set in audio and subtitle activity .

Representation

Parameter	Type	Required	Description
Id	String	Yes	Required, flow ID, as in Dash File: <pre><Representation id="240p250kbps" frameRate=" 24" bandwidth=" 258157" codecs="avc1 .4d400d" width ="426" height=" 180"></pre>
URI	String	Yes	Required, resource path. Example: a/b/c/d/video-1.mpd, 格式: $^{\wedge}[a-z]\{1\}[a-z0-9.-/]+\\$

InputConfig

Parameter	Type	Required	Description
Format	String	Yes	Required, the input format of the subtitle file. Supports stl, ttml, and vtt formats.
InputFile	String	Yes	<pre>{ "Bucket": "example-bucket", "Location": "oss-cn-hangzhou", "Object": "example-logo.png" }</pre> Or <pre>{ "URL": "http://bucketname.oss-cn-hangzhou.aliyuncs.com/subtitle/test.chs.vtt" }</pre>

Volume

Parameters	Type	Required or not	Description
Method	String	No	Volume regulation mode. Optional value: auto, dynamic, linear.
Integrated LoudnessTarget	String	No	Target volume, number. - Value range: [-70, -5] - You must specify Method as dynamic. - Default value: -6

Parameters	Type	Required or not	Description
TruePeak	String	No	Maximum peak value, number. - Value range: [-9, 0] - You must specify Method as dynamic. - Default value: -1
LoudnessRangeTarget	String	No	Volume range, number. - Value range: [1, 20] - You must specify Method as dynamic. - Default value: 8

Amix

Parameters	Type	Required	Description
AmixURL	String	Yes	Background audio track media that needs audio mixing. Value: OSS URL or character string "input". input scenario: to mix two audio tracks of a video stream.
Map	String	Yes	Select target audio tracks from AmixURL. The value is : 0:a:{audio_index}. Example: 0:a:0.

Parameters	Type	Required	Description
MixDurMode	String	No	Value: first, long. · first: indicates the time duration of the output media is subject to the time duration of the input media. · long: indicates that the time duration of the output media is subject to the media which has longer time duration. · Default value: long

16.2 Error code list

This article lists general errors, task errors, MPS queue errors, and message sending errors.

General errors

Error code	Description	Detailed information
Throttling	The API is throttled.	Request was denied due to request throttling.
InvalidIdentity.ServiceDisabled	The service is inactivated or frozen.	The request identity was not allowed operated.
InvalidParameter	The parameter is invalid.	The specified parameter \" %s\" is invalid.
InvalidParameter.NullValue	The parameter is blank.	The specified parameter \" %s\" cannot be null.
InvalidParameter.InvalidState	The status is invalid.	The specified parameter \" %s\" is invalid.
InvalidParameter.EmptyValue	The parameter must be set .	The specified parameter \" %s\" cannot be empty.

Error code	Description	Detailed information
InvalidParameter. NotSupported	The parameter is not supported. For example , H. 265 in the custom template does not support the Profile parameter currently.	The specified parameter \" %s\" is not supported.
InternalError	There is an unknown internal error.	The operation has failed due to some unknown error, exception or failure.
InvalidParameter. OutOfRange	The parameter value is out of the value range.	The specified parameter \" %s\" is out of range.
InvalidParameter. ResourceNotFound	The operated resource does not exist.	The resource operated \" %s\" cannot be found.
InvalidParameter. ResourceContentBad	The operated resource content is faulty.	The resource operated \" %s\" is bad.
InvalidParameter. ResourceNotSupported	The operated resource is not supported. For example, the file extension is not supported.	The resource operated \" %s\" is not supported.
InvalidParameter. NoAudioStream	The operated resource does not have the audio stream.	The resource has no audio stream.
InvalidParameter. MergeFileNoVideoOrAudio	The joined file must contain both the video and audio streams.	The merge File must contain video and audio stream at the sametime.
PermissionDenied. ResourceAccess	Resource access permission is restricted.	MTS not authorized to operate on the specified resource \" %s\" .
PermissionDenied. ResourceQuotaExceed	The resource quota has been used up.	The resource \" %s\" quota has been used up.
InvalidParameter. ResourceDeleted	The operated resource is deleted.	The resource operated \" %s\" has been deleted.
InvalidParameter. JsonFormatInvalid	The parameter is not a valid JSON string.	The parameter \" %s\" does not conform to the JSON specification.

Error code	Description	Detailed information
InvalidParameter. JsonObjectFormatInvalid	The parameter is not a valid JSON object.	The parameter \" %s\" does not conform to the JSON Object specification.
InvalidParameter. JsonArrayFormatInvalid	The parameter is not a valid JSON array string.	The parameter \" %s\" does not conform to the JSON Array specification.
InvalidParameter. UUIDFormatInvalid	The ID is invalid or is not in UUID format.	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 parameter format is incorrect.	The format of parameter \" %s\" is invalid.
InvalidParameter. NumberFormatInvalid	The number format is incorrect.	The number format of parameter \" %s\" is invalid.
InvalidParameter. BucketNameInvalid	The specified bucket name does not meet the OSS bucket specifications.	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 specified location does not meet the OSS location specifications.	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.

Error code	Description	Detailed information
InvalidParameter. ObjectKeyInvalid	The specified object name does not meet the OSS object specifications.	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.

Task errors

Error code	Description	Detailed information
PermissionDenied. JobInComplete	You do not have the permission to cancel completed tasks.	The Job operated \" %s\" is complete, cannot cancel.
PermissionDenied. JobInFailure	You do not have the permission to cancel failed tasks.	The Job operated \" %s\" is failure, cannot cancel.
PermissionDenied. JobInRunning	You do not have the permission to cancel running tasks.	The Job operated \" %s\" is running, cannot cancel.
InvalidParameter. TemplateNotSupported	The operated template is not supported. For example, the preset template specified when you submit a task is not in the list of recommend preset templates when the intelligent analysis is successful.	The template operated \" %s\" is not supported.
InvalidParameter. TemplateNotFound	The template does not exist.	The Template operated \" %s\" cannot be found.

MPS queue errors

Error code	Description	Detailed information
NotSupportedJob. SystemTemplateJobNotSupported	The Boost MPS queue does not support tasks created based on the system template.	The Template \" %s\" is a system template, cannot be supported by boost pipeline.

Error code	Description	Detailed information
NotSupportedJob. AnalysisJobNotSupported	The Boost MPS queue does not support analysis tasks.	Analysis Job cannot be supported by boost pipeline.
NotSupportedJob. ContainerFormatNotSupported	The Boost MPS queue does not support custom templates not in M3U8 format.	In user defined template \” %s\”, container format \” %s\” is not m3u8, cannot be supported by boost pipeline.
NotSupportedJob. DurationIsLessThanHalfAnHour	The Boost MPS queue does not support tasks shorter than 30 minutes.	Duration is \” %s\” less than half an hour, cannot be supported by boost pipeline.

Message sending errors

Error code	Description	Detailed information
EntityNotExist.Role	The role does not exist.	The role does not exist.
AccessDenied	You do not have the permission to send the message.	The OwnerId that your AccessKey Id associated to is forbidden for this operation.
InvalidQueueName	The name of the Message Service queue is invalid.	The queue name you provided is invalid. QueueName should start with alpha and contain only alpha, digit or - .
TopicNameInvalid	The 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 MPS queue does not exist.	The queue name you provided does not exist.
TopicNotExist	The topic does not exist.	The Topic you provided does not exist.
InvalidArgument	The length of the message body exceeds the upper threshold.	The length of message must not be larger than MaximumMessageSize.

16.3 Preset template details

This document introduces preset narrowband HD™ templates, preset static templates, preset smart templates and template ID rules.

Preset narrowband HD™ templates



Note:

Preset narrowband HD™ templates are a type of transcoding templates unique to Alibaba Cloud Media Processing. While maintaining the same video definition as common transcoding templates, they provide a lower bit rate to reduce your costs.

Template ID	Template Name	Chinese name	Container formats	Bit rate range	Resolution-Width
S00000003-200050	MP4-FHD-NarrowBand HDV2	MP4-FHD-Narrowband HD™ 2.0	MP4	≤3000	1920
S00000003-200040	MP4-HD-NarrowBand HDV2	MP4-SD-Narrowband HD™ 2.0	MP4	≤1500	1280
S00000003-200030	MP4-SD-NarrowBand HDV2	MP4-LD-Narrowband HD™2.0	MP4	≤800	848
S00000003-200020	MP4-LD-NarrowBand HDV2	MP4-LD-Narrowband HD™2.0	MP4	≤400	640
S00000002-000070	FLV-4K-NarrowBand HDV1	FLV-4K-Narrowband HD™	FLV	≤8000	3840
S00000002-000060	FLV-2K-NarrowBand HDV1	FLV-2K-Narrowband HD™	FLV	≤4000	2048
S00000002-000050	FLV-FHD-NarrowBand HDV1	FLV-FHD-Narrowband HD™	FLV	≤3000	1920
S00000002-000040	FLV-HD-NarrowBand HDV1	FLV-HD-Narrowband HD™	FLV	≤1500	1280

Template ID	Template Name	Chinese name	Container formats	Bit rate range	Resolution-Width
S00000002-000030	FLV-SD-NarrowBand HDV1	FLV-SD-Narrowband HD TM	FLV	≤800	848
S00000002-000020	FLV-LD-NarrowBand HDV1	FLV-LD-Narrowband HD TM	FLV	≤400	640
S00000002-100070	M3U8-4K-NarrowBand HDV1	M3U8-4K-Narrowband HD TM	M3U8	≤8000	3840
S00000002-100060	M3U8-2K-NarrowBand HDV1	M3U8-2K-Narrowband HD TM	M3U8	≤4000	2048
S00000002-100050	M3U8-FHD-NarrowBand HDV1	M3U8-FHD-Narrowband HD TM	M3U8	≤3000	1920
S00000002-100040	M3U8-HD-NarrowBand HDV1	M3U8-HD-Narrowband HD TM	M3U8	≤1500	1280
S00000002-100030	M3U8-SD-NarrowBand HDV1	M3U8-SD-Narrowband HD TM	M3U8	≤800	848
S00000002-100020	M3U8-LD-NarrowBand HDV1	M3U8-LD-Narrowband HD TM	M3U8	≤400	640
S00000002-200070	MP4-4K-NarrowBand HDV1	MP4-4K-Narrowband HD TM	MP4	≤8000	3840
S00000002-200060	MP4-2K-NarrowBand HDV1	MP4-2K-Narrowband HD TM	MP4	≤4000	2048
S00000002-200050	MP4-FHD-NarrowBand HDV1	MP4-FHD-Narrowband HD TM	MP4	≤3000	1920
S00000002-200040	MP4-HD-NarrowBand HDV1	MP4-HD-Narrowband HD TM	MP4	≤1500	1280

Template ID	Template Name	Chinese name	Container formats	Bit rate range	Resolution-Width
S00000002-200030	MP4-SD-NarrowBand HDV1	MP4-SD-Narrowband HD TM	MP4	≤800	848
S00000002-200020	MP4-LD-NarrowBand HDV1	MP4-LD-Narrowband HD TM 2.0	MP4	≤400	640

Preset static templates

Compared with a preset smart template, a preset static template does not have to be analyzed before being called. Preset static templates include video transcoding templates, audio MP3 transcoding templates, and conversion and encapsulation templates.

- Video transcoding templates

A video transcoding template basically controls the resolution when duly controlling the bit rate. Each preset static template outputs a fixed preset resolution width. The resolution height scales down at the original aspect ratio.

Preset static templates - video transcoding templates

Template ID	Template name	Chinese name	Container format	Video bit rate (Kbps)	Audio bit rate (Kbps)	Resolution-width	Remarks
S00000001-000070	FLV-4K	FLV-4K	FLV	6000	160	3840	Flash video
S00000001-000060	FLV-2K	FLV-2K	FLV	3500	160	2048	Flash video
S00000001-000040	FLV-FHD	FLV-FHD	FLV	3000	160	1920	Flash video
S00000001-000030	FLV-HD	FLV-HD	FLV	1800	128	1280	Flash video
S00000001-000020	FLV-SD	FLV-SD	FLV	800	80	848	Flash video
S00000001-000010	FLV-LD	FLV-LD	FLV	400	64	640	Flash video

Template ID	Template name	Chinese name	Container format	Video bit rate (Kbps)	Audio bit rate (Kbps)	Resolution-width	Remarks
S00000001-100070	M3U8-4K	M3U8-4K	M3U8	6000	160	3840	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)
S00000001-100060	M3U8-2K	M3U8-2K	M3U8	3500	160	2048	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)
S00000001-100040	M3U8-FHD	M3U8-FHD	M3U8	3000	160	1920	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)

Template ID	Template name	Chinese name	Container format	Video bit rate (Kbps)	Audio bit rate (Kbps)	Resolution-width	Remarks
S00000001-100030	M3U8-HD	M3U8-HD	M3U8	1800	128	1280	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)
S00000001-100020	M3U8-SD	M3U8-SD	M3U8	800	80	848	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)
S00000001-100010	M3U8-LD	M3U8-LD	M3U8	400	64	640	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)

Template ID	Template name	Chinese name	Container format	Video bit rate (Kbps)	Audio bit rate (Kbps)	Resolution-width	Remarks
S00000001-200070	MP4-4K	MP4-4K	MP4	6000	160	3840	Applicable to Web and mobile devices (iOS and Android)
S00000001-200060	MP4-2K	MP4-2K	MP4	3500	160	2048	Applicable to Web and mobile devices (iOS and Android)
S00000001-200040	MP4-FHD	MP4-FHD	MP4	3000	160	1920	Applicable to Web and mobile devices (iOS and Android)
S00000001-200030	MP4-HD	MP4-HD	MP4	1800	128	1280	Applicable to Web and mobile devices (iOS and Android)
S00000001-200020	MP4-SD	MP4-SD	MP4	800	80	848	Applicable to Web and mobile devices (iOS and Android)

Template ID	Template name	Chinese name	Container format	Video bit rate (Kbps)	Audio bit rate (Kbps)	Resolution-width	Remarks
S00000001-200010	MP4-LD	MP4-LD	MP4	400	64	640	Applicable to Web and mobile devices (iOS and Android)
S00000001-000070	FLV-4K	FLV-4K	FLV	6000	160	3840	Flash video
S00000001-000060	FLV-2K	FLV-2K	FLV	3500	160	2048	Flash video
S00000001-000040	FLV-FHD	FLV-FHD	FLV	3000	160	1920	Flash video
S00000001-000030	FLV-HD	FLV-HD	FLV	1800	128	1280	Flash video
S00000001-000020	FLV-SD	FLV-SD	FLV	800	80	848	Flash video
S00000001-000010	FLV-LD	FLV-LD	FLV	400	64	640	Flash video
S00000001-100070	M3U8-4K	M3U8-4K	M3U8	6000	160	3840	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)

Template ID	Template name	Chinese name	Container format	Video bit rate (Kbps)	Audio bit rate (Kbps)	Resolution-width	Remarks
S00000001-100060	M3U8-2K	M3U8-2K	M3U8	3500	160	2048	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)
S00000001-100040	M3U8-FHD	M3U8-FHD	M3U8	3000	160	1920	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)
S00000001-100030	M3U8-HD	M3U8-HD	M3U8	1800	128	1280	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)

Template ID	Template name	Chinese name	Container format	Video bit rate (Kbps)	Audio bit rate (Kbps)	Resolution-width	Remarks
S00000001-100020	M3U8-SD	M3U8-SD	M3U8	800	80	848	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)
S00000001-100010	M3U8-LD	M3U8-LD	M3U8	400	64	640	Applicable to Web, iOS devices (iPhone 4 or later and iPad), and Android devices (Android 3.0 or later)
S00000001-200070	MP4-4K	MP4-4K	MP4	6000	160	3840	Applicable to Web and mobile devices (iOS and Android)

Template ID	Template name	Chinese name	Container format	Video bit rate (Kbps)	Audio bit rate (Kbps)	Resolution-width	Remarks
S00000001-200060	MP4-2K	MP4-2K	MP4	3500	160	2048	Applicable to Web and mobile devices (iOS and Android)
S00000001-200040	MP4-FHD	MP4-FHD	MP4	3000	160	1920	Applicable to Web and mobile devices (iOS and Android)
S00000001-200030	MP4-HD	MP4-HD	MP4	1800	128	1280	Applicable to Web and mobile devices (iOS and Android)
S00000001-200020	MP4-SD	MP4-SD	MP4	800	80	848	Applicable to Web and mobile devices (iOS and Android)
S00000001-200010	MP4-LD	MP4-LD	MP4	400	64	640	Applicable to Web and mobile devices (iOS and Android)

• Conversion and encapsulation templates

A conversion and encapsulation template does not recode the input media file, but only converts the format of the file. Operations that require recoding, such as watermarking, editing, and joining, are not supported.



Note:

Conversion and encapsulation may fail because the sources and formats of input media files are not supported. In this case, transcoding tasks using the conversion and encapsulation template fail to run.

Preset static templates - conversion and encapsulation templates

Template ID	Template name	Chinese name	Container format
S00000001-000000	FLV-COPY	Convert to the FLV format.	FLV
S00000001-100000	M3U8-COPY	M3U8 slice.	M3U8
S00000001-200000	MP4-COPY	Convert to the MP4 format.	MP4

- **Audio transcoding templates**

Currently, audio transcoding templates only support output in MP3 format and are used to control the bit rate.

<div data-spm-anchor-id="a2762.11472859.0.i214.23d8203bqpSrG0">Preset static templates - audio transcoding templates

Template ID	Template name	Chinese name	Container format	Maximum bit rate (Kbit/s)
S00000001-300050	MP3-320	MP3-320	MP3	320
S00000001-300040	MP3-192	MP3-192	MP3	192
S00000001-300030	MP3-160	MP3-160	MP3	160
S00000001-300020	MP3-128	MP3-128	MP3	128
S00000001-300010	MP3-64	MP3-64	MP3	64

- **Resolution doubling templates**

The output width and height double the input width and height. The output resolution is determined by the width. If the doubled width exceeds the upper threshold, the width takes the upper threshold value, and the height scales down at the original aspect ratio.

Template ID	Template name	Chinese name	Container format	Video bit rate (Kbit/s)	Audio bit rate (Kbit/s)	Resolution-width	Remarks
S00000001-400070	MP4-2KTo4K	MP4-2KTo4K	MP4	≤20000	128	≤3840	Applicable to Web and mobile devices (iOS and Android)
S00000001-400040	MP4-SDToHD	MP4-SDToHD	MP4	≤6000	128	≤1280	Applicable to Web and mobile devices (iOS and Android)

Preset smart templates



Note:

Before you use a preset smart template when submitting a transcoding task, the preset smart template must be analyzed by Media Processing. An OSS file must proactively call the `SubmitAnalysisJob` API and poll the `QueryAnalysisJobList` API to obtain a list of preset smart templates available for the OSS file.

Opened preset smart templates for bit rate control are as follows (the output resolution fluctuates within a certain range because the resolution is optimized based on the input video):

Template ID	Template name	Chinese name	Container format	Bit rate range	Resolution
S00000000-000050	FLV-FHD	FLV-FHD	FLV	2M~4M	[720p, 1080p]

Template ID	Template name	Chinese name	Container format	Bit rate range	Resolution
S00000000-000040	FLV-HD	FLV-HD	FLV	1M~2M	≥576p
S00000000-000030	FLV-SD	FLV-SD	FLV	500k~1M	≥480p
S00000000-000020	FLV-LD	FLV-LD	FLV	<500 Kbit/s	≥270p
S00000000-100050	M3U8-FHD	M3U8-FHD	M3U8	2M~4M	[720p, 1080p]
S00000000-100040	M3U8-HD	M3U8-HD	M3U8	1M~2M	≥576p
S00000000-100030	M3U8-SD	M3U8-SD	M3U8	500k~1M	≥480p
S00000000-100020	M3U8-LD	M3U8-LD	M3U8	<500 Kbit/s	≥270p
S00000000-200050	MP4-FHD	MP4-FHD	MP4	2M~4M	[720p, 1080p]
S00000000-200040	MP4-HD	MP4-HD	MP4	1M~2M	≥576p
S00000000-200030	MP4-SD	MP4-SD	MP4	500k~1M	≥480p
S00000000-200020	MP4-LD	MP4-LD	MP4	<500 Kbit/s	≥270p

Template ID rules:

Serial number of the character in the ID	Definition
1	S
2~9	reserved
10	Separator -
11	Category
12-15	Serial number
16	Minor version

16.4 Supported formats

Input formats

- Container formats

3GP, AVI, FLV, MP4, M3U8, MPG, ASF, WMV, MKV, MOV, TS, WebM, MXF, etc.

- Video encoding formats

H.264/AVC, H. 263, H. 263+, MPEG-1, MPEG-2, MPEG-4, MJPEG, VP8, VP9, Quicktime, RealVideo, Windows Media Video, etc.

- Audio encoding formats

AAC, AC-3, ADPCM, AMR, DSD, MP1, MP2, MP3, PCM, RealAudio, and Windows Media Audio

Output formats

- Container formats

Video transcoding

Default for PC: FLV

Default for Android: MP4

Default for IOS: M3U8(TS)

Custom: FLV, MP4, TS, M3U8, GIF and MPD

Audio transcoding

MP3, MP4, OGG, and FLAC

- Video encoding formats

Default: H. 264/AVC

Custom: H. 264/AVC and H. 265/HEVC.

- Audio encoding formats

Default: AAC

Custom: MP3, AAC, VORBIS, and FLAC

16.5 Workflow activity introduction

Workflow activity types are listed as follows: Start, Transcode, Snapshot, Analysis, Cover, Summary, Censor, Report, UploadVerify, GenerateMasterPlayList, AudioGroup, SubtitleGroup and PackageConfig. This document introduces the parameters supported by the following activity types:

Start activity

You can set the trigger conditions and overall configurations of the Media workflow. This activity acquires media information. If the acquisition fails, directly jump to perform Report activity.

Name	Type	Required	Description
InputFile	String	Yes	Input position. For more information, see Matching rule for workflow file . Example: { "Bucket" : "example-001", "Location" : "oss-cn-hangzhou", "ObjectPrefix" : "test/ " }.
PipelineId	String	Yes	ID of the MPS queue, which is global. In the workflow scenario, the message configuration for the MPS queue is invalid, but the message configuration of the QueueName/TopicName is valid.
MessageType	String	No	Message Type. · Range: Queue and Topic. · Default value: Queue.

Name	Type	Required	Description
QueueName	String	No	Name of the Message Service queue, which is global.
TopicName	String	No	Topic name, which is global.
RoleName	String	No	Authorization role name, which is global. Default value : AliyunMTSDefaultRole

Transcode activity

Name	Type	Required	Description
Outputs	String	No	Optional while extracting subtitles. - For more information, see Output. - Example: [{"OutputObject": "transcode%2F%7BObjectPrefix%7D%2F%7BFileName%7D.%7BExtName%7D", "TemplateId": "S00000001-000070"}].
OutputBucket	String	No	Output bucket. Output bucket. During HLS package, it is overwritten by the Bucket in PackageConfig.

Name	Type	Required	Description
OutputLocation	String	No	Output region. During HLS package, it is overwritten by the Location in PackageConfig.
MultiBitrateVideoStream	String	No	During HLS package, this parameter is required while extracting video streams. - For more information about this parameter, see MultiBitrateVideoStream. - Example: { "URI" : "c/d/video1.m3u8" }.
ExtXMedia	String	No	During HLS package, this parameter is required while extracting audio streams or subtitle streams. - For more information about this parameter, see ExtXMedia. - Example: { "Name" : "english", "Language" : "en-US", "URI" : "c/d/audio-1.m3u8" }.

Name	Type	Required	Description
WebVTTSubtitleURL	String	No	HLS package exclusive parameter, subtitle address, • which currently only supports WebVTT subtitle file, must comply with URL standard, and can overwrite subtitle address while calling AddMedia. • Example: http://test.oss-cn-hangzhou.aliyuncs.com/subtitles-en.vtt.
Representation	String	No	During DASH package, it is required to be set when extract audio stream, video stream, or subtitle stream. • For more information, see Representation. • Example: {"Id": "480p", "URI": "videoSD/xx.mpd"}.

Name	Type	Required	Description
InputConfig	String	No	Dash package exclusive parameter, and is required to be set when extract subtitle streams. - For more information, see InputConfig. - Example: " {\n Format\n :\n vtt\n ,\n InputFile\n :\n URL\n :\n http:// subtitlebucket.oss-cn-hangzhou.aliyuncs.com/ subtitle/subtitle-en.vtt\"}"

Screenshot activity

Name	Type	Required	Description
SnapshotConfig	String	Yes	- For more information, see SnapshotConfig. - Example: { " OutputFile" : { "Bucket" : " example-001" , "Location" : " oss-cn-hangzhou" , "Object" : " snapshot%2F%7BObjectPrefix%7D%2F%7BFileName%7D.%7BExtName%7D%2F1.jpg" }, " Time" : "5" }。

Name	Type	Required	Description
MediaCover	String	No	Whether the screenshot is set as the media cover, · only for a single screenshot. · Range: true, false · · Default value: false.

Analysis activity

Name	Type	Required	Description
KeepOnlyHighestDefinition	String	No	Whether to keep only the highest definition analysis results. · Range: True, False. · Default value: False.

Report activity

Name	Type	Required	Description
PublishType	String	No	Media publication type. Range: Auto, Manual, and TranscodeCompletedAuto. · Auto: the media set is automatically published after the workflow is executed. · Manual: the media set is not published. · TranscodeCompletedAuto: the media set is automatically published after any Transcode activity is completed (use the message configuration of the Start node to notify users of transcoding completion and use the Play Service to play the activity output). Default value: Manual.  Note: When the type is TranscodeCompletedAuto, the message will not be sent if the status of the transcoding activity is Skipping.

PackageConfig activity

Name	Type	Required	Description
Output	String	Yes	JSON string. Example: { “Bucket” :” output” ,” Location” :” cn-hangzhou” ,” MasterPlayListName” :” b/c.m3u8” }.  Note: Placeholders that can be used in MasterPlayListName: · {ObjectPrefix}: the original file path not including Bucket information, · {FileName}: the original file name not including extension, · {ExtName}: extension of the original file, · {RunId}: the ID of the workflow execution, · {MediaId}: the MediaID processed by the workflow. All these placeholders can be dynamically replaced.
Protocol	String	Yes	Value: hls, dash

SubtitleGroup activity

Name	Type	Required	Description
GroupId	String	No	Group ID. · HLS package exclusive parameters, required. · The length cannot exceed 32 characters.
AdaptationSet	String	No	· DASH packages exclusive parameters, required. For more information, see AdaptationSet · Example: " {\n Lang\" :\" english\" , \" Group\" :\" SubtitleENGroup\n }"

AudioGroup activity

Name	Type	Required	Description
GroupId	String	No	Group ID. · Hls package exclusive parameters, required. · The length cannot exceed 32 characters;

Name	Type	Required	Description
AdaptationSet	String	No	- DASH package exclusive parameters, required. For more information, see AdaptationSet. - Example: "{\n Lang\n :\n english\n ,\n Group\n :\n AudioGroup\n English\n }" , one language one subtitle group.

VideoGroup activity

Name	Type	Required	Description
AdaptationSet	String	No	- DASH package exclusive parameters, required. For more information, see AdaptationSet. - Example: "AdaptationSet" : "{\n Group\n :\n VideoGroup\n }"

GenerateMasterPlayList activity

Name	Type	Required	Description
MasterPlayList	String	No	• HLS exclusive parameters, required. Multi-bitstream list. For more information, see MasterPlayList. • Example: { “MultiBitrateVideoStreams” : [{ “RefActivityName” : “video-1” , “ExtXStreamInf” : { “BandWidth” : “111110” , “Audio” : “auds” , “Subtitles” : “subs” } }]}.

16.6 Matching rule for workflow file triggering

Matching rule for workflow file triggering

Matching rule executes the strategy in the following way:

Based on the path of new files, the matching rule checks the location where the workflow is bound. If the path of the new file includes the string which the matching rule is bound to, it complies with the matching rule. If the path of the new file does not include the string which the matching rule is bound to, it does not comply with the matching rule. For example, the rule `http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/C/test1.flv`:

```

1. http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/C/           Matched
2. http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/           Matched
3. http://bucket.oss-cn-hangzhou.aliyuncs.com/A/             Matched
4. http://bucket.oss-cn-hangzhou.aliyuncs.com/               Matched
5. http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/C/test.flv Matched

```

6. http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B/CC/ matched	Not
7. http://bucket.oss-cn-hangzhou.aliyuncs.com/A/B2/ matched	Not
8. http://bucket.oss-cn-hangzhou.aliyuncs.com/A2/B/C/ matched	Not

**Note:**

Do not configure the input path of a workflow as the prefix of the input path of another workflow, or one incremental file triggers two workflow executions.

For example, the input paths of two workflows are configured as test and test1 respectively, when an input file is uploaded to the test1 directory, which has the same prefix with test, therefore, two workflow executions are triggered.

Matching file extension

Triggering requirement is that the file is a multi-media file, Media Files service determines through the extension of a file. The file does not have an extension, when the filename does not include extension separator ("."), or the extension complies with the following rules:

**Note:**

For swf, the screenshot and transcoding quality are not guaranteed.

Type	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, vob, wmv, webm.
Audios	aac, ac3, acm, amr, ape, caf, flac, m4a, mp3, ra, wav, wma, aiff.

17 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

Name	Type	Description
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

Name	Type	Description
StartTime	String	Start time
Duration	String	Time length
Bitrate	String	Bit rate
NumFrames	String	Total number of frames
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

Name	Type	Description
Duration	String	Time length
Bitrate	String	Bit rate
NumFrames	String	Total number of frames
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

Name	Type	Description
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.

Name	Type	Description
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

Name	Type	Description
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
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

Name	Type	Description
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.
Output	AliyunOutput	Task output.

Name	Type	Description
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 TranscodeC cancelled 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.

Name	Type	Description
Location	String	OSS service region, up to 64 bytes.
Object	String	OSS object of the of the input task, up to 1024 bytes.
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.
TemplateId	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 TemplateId.

Name	Type	Description
Video	AliyunVideoCodec	Video configuration. If this parameter is set , the parameter setting replaces the AliyunVideoCodec setting of the template specified by the TemplateId.
Audio	AliyunAudioCodec	Audio configuration. If this parameter is set , the parameter setting replaces the AliyunAudioCodec setting of the template specified by the TemplateId.
TransConfig	AliyunTransConfig	General transcoding configuration. If this parameter is set , the parameter setting replaces the AliyunTransConfig setting of the template specified by the TemplateId.
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.

Name	Type	Description
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
Height	Number	Height. · Value range: [8,4096] · Unit: Px
DX	Number	Horizontal offset. · Value range: [-4096,4096] · Unit: Px

Name	Type	Description
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, NarrowBand HDV2, AIVideoCover, AIVideoRecognizer, 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.

Name	Type	Description
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.
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].

Name	Type	Description
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.
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.

Name	Type	Description
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.

Name	Type	Description
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.
MediaId	String	Media ID. All information generated by the media workflow belongs to this media ID.

Name	Type	Description
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.

MedialInfo

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.

Name	Type	Description
FormatLongName	String	Long name of the container/encapsulation format
StartTime	String	The start time.
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.

Name	Type	Description
CodecTimeBase	String	Encoding 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	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.
CateId	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.

Name	Type	Description
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 .
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
CateId	String	Category ID.
ParentId	String	Parent node ID. The value of the top-level node is -1.

Name	Type	Description
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.

18 Font name

FZFangSong-Simplified

FZHei-B01S: FZHei-B01S-Simplified

FZKai-Simplified

FZShuSong-Simplified

SimSun: Songti

WenQuanYi Micro Hei

WenQuanYi Zen Hei Mono: Wenquanyi Zhenghei Wide

WenQuanYi Zen Hei Sharp: Wenquanyi Zhenghei Dot Matrix

Microsoft YaHei

Yuanti SC: Yuanti-Simplified Normal

Roboto Bold: Google Robota, not accept Chinese characters

Roboto: Google Robota, not accept Chinese characters