



Low-Latency Streaming API Reference

Amazon IVS



API Version 2020-07-14

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Amazon IVS: Low-Latency Streaming API Reference

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Table of Contents

Welcome	1
Actions	4
BatchGetChannel	6
Request Syntax	6
URI Request Parameters	6
Request Body	6
Response Syntax	6
Response Elements	7
Errors	8
See Also	8
BatchGetStreamKey	9
Request Syntax	9
URI Request Parameters	9
Request Body	9
Response Syntax	9
Response Elements	10
Errors	10
See Also	10
BatchStartViewerSessionRevocation	12
Request Syntax	12
URI Request Parameters	12
Request Body	12
Response Syntax	12
Response Elements	13
Errors	13
See Also	14
CreateChannel	15
Request Syntax	15
URI Request Parameters	15
Request Body	15
Response Syntax	18
Response Elements	19
Errors	20
See Also	20

CreatePlaybackRestrictionPolicy	22
Request Syntax	22
URI Request Parameters	22
Request Body	22
Response Syntax	23
Response Elements	24
Errors	24
See Also	25
CreateRecordingConfiguration	26
Request Syntax	26
URI Request Parameters	27
Request Body	27
Response Syntax	28
Response Elements	29
Errors	29
See Also	30
CreateStreamKey	31
Request Syntax	31
URI Request Parameters	31
Request Body	31
Response Syntax	32
Response Elements	32
Errors	33
See Also	33
DeleteChannel	35
Request Syntax	35
URI Request Parameters	35
Request Body	35
Response Syntax	35
Response Elements	36
Errors	36
See Also	36
DeletePlaybackKeyPair	38
Request Syntax	38
URI Request Parameters	38
Request Body	38

Response Syntax	38
Response Elements	39
Errors	39
See Also	39
DeletePlaybackRestrictionPolicy	41
Request Syntax	41
URI Request Parameters	41
Request Body	41
Response Syntax	41
Response Elements	41
Errors	42
See Also	42
DeleteRecordingConfiguration	44
Request Syntax	44
URI Request Parameters	44
Request Body	44
Response Syntax	45
Response Elements	45
Errors	45
See Also	45
DeleteStreamKey	47
Request Syntax	47
URI Request Parameters	47
Request Body	47
Response Syntax	47
Response Elements	47
Errors	48
See Also	48
GetChannel	49
Request Syntax	49
URI Request Parameters	49
Request Body	49
Response Syntax	49
Response Elements	50
Errors	50
See Also	51

GetPlaybackKeyPair	52
Request Syntax	52
URI Request Parameters	52
Request Body	52
Response Syntax	52
Response Elements	53
Errors	53
See Also	54
GetPlaybackRestrictionPolicy	55
Request Syntax	55
URI Request Parameters	55
Request Body	55
Response Syntax	55
Response Elements	56
Errors	56
See Also	57
GetRecordingConfiguration	58
Request Syntax	58
URI Request Parameters	58
Request Body	58
Response Syntax	58
Response Elements	59
Errors	59
See Also	60
GetStream	61
Request Syntax	61
URI Request Parameters	61
Request Body	61
Response Syntax	61
Response Elements	62
Errors	62
See Also	63
GetStreamKey	64
Request Syntax	64
URI Request Parameters	64
Request Body	64

Response Syntax	64
Response Elements	65
Errors	65
See Also	65
GetStreamSession	67
Request Syntax	67
URI Request Parameters	67
Request Body	67
Response Syntax	68
Response Elements	70
Errors	71
See Also	71
ImportPlaybackKeyPair	72
Request Syntax	72
URI Request Parameters	72
Request Body	72
Response Syntax	73
Response Elements	73
Errors	74
See Also	74
ListChannels	76
Request Syntax	76
URI Request Parameters	76
Request Body	76
Response Syntax	78
Response Elements	78
Errors	79
See Also	79
ListPlaybackKeyPairs	80
Request Syntax	80
URI Request Parameters	80
Request Body	80
Response Syntax	81
Response Elements	81
Errors	82
See Also	82

ListPlaybackRestrictionPolicies	83
Request Syntax	83
URI Request Parameters	83
Request Body	83
Response Syntax	84
Response Elements	84
Errors	85
See Also	85
ListRecordingConfigurations	86
Request Syntax	86
URI Request Parameters	86
Request Body	86
Response Syntax	87
Response Elements	87
Errors	88
See Also	88
ListStreamKeys	90
Request Syntax	90
URI Request Parameters	90
Request Body	90
Response Syntax	91
Response Elements	91
Errors	92
See Also	92
ListStreams	94
Request Syntax	94
URI Request Parameters	94
Request Body	94
Response Syntax	95
Response Elements	95
Errors	96
See Also	96
ListStreamSessions	98
Request Syntax	98
URI Request Parameters	98
Request Body	98

Response Syntax	99
Response Elements	99
Errors	100
See Also	100
ListTagsForResource	102
Request Syntax	102
URI Request Parameters	102
Request Body	102
Response Syntax	102
Response Elements	102
Errors	103
See Also	103
PutMetadata	105
Request Syntax	105
URI Request Parameters	105
Request Body	105
Response Syntax	106
Response Elements	106
Errors	106
See Also	107
StartViewerSessionRevocation	108
Request Syntax	108
URI Request Parameters	108
Request Body	108
Response Syntax	109
Response Elements	109
Errors	109
See Also	110
StopStream	111
Request Syntax	111
URI Request Parameters	111
Request Body	111
Response Syntax	112
Response Elements	112
Errors	112
See Also	112

TagResource	114
Request Syntax	114
URI Request Parameters	114
Request Body	114
Response Syntax	115
Response Elements	115
Errors	115
See Also	115
UntagResource	117
Request Syntax	117
URI Request Parameters	117
Request Body	117
Response Syntax	117
Response Elements	118
Errors	118
See Also	118
UpdateChannel	119
Request Syntax	119
URI Request Parameters	119
Request Body	119
Response Syntax	122
Response Elements	123
Errors	123
See Also	124
UpdatePlaybackRestrictionPolicy	125
Request Syntax	125
URI Request Parameters	125
Request Body	125
Response Syntax	126
Response Elements	127
Errors	127
See Also	128
Data Types	129
AudioConfiguration	131
Contents	131
See Also	132

BatchError	133
Contents	133
See Also	133
BatchStartViewerSessionRevocationError	135
Contents	135
See Also	136
BatchStartViewerSessionRevocationViewerSession	137
Contents	137
See Also	137
Channel	139
Contents	139
See Also	142
ChannelSummary	144
Contents	144
See Also	146
DestinationConfiguration	148
Contents	148
See Also	148
IngestConfiguration	149
Contents	149
See Also	149
IngestConfigurations	150
Contents	150
See Also	150
MultitrackInputConfiguration	151
Contents	151
See Also	151
PlaybackKeyPair	153
Contents	153
See Also	154
PlaybackKeyPairSummary	155
Contents	155
See Also	156
PlaybackRestrictionPolicy	157
Contents	157
See Also	158

PlaybackRestrictionPolicySummary	159
Contents	159
See Also	160
RecordingConfiguration	161
Contents	161
See Also	163
RecordingConfigurationSummary	164
Contents	164
See Also	165
RenditionConfiguration	166
Contents	166
See Also	166
S3DestinationConfiguration	167
Contents	167
See Also	167
Srt	168
Contents	168
See Also	168
Stream	169
Contents	169
See Also	170
StreamEvent	172
Contents	172
See Also	173
StreamFilters	174
Contents	174
See Also	174
StreamKey	175
Contents	175
See Also	176
StreamKeySummary	177
Contents	177
See Also	178
StreamSession	179
Contents	179
See Also	181

StreamSessionSummary	182
Contents	182
See Also	183
StreamSummary	184
Contents	184
See Also	185
ThumbnailConfiguration	186
Contents	186
See Also	187
VideoConfiguration	188
Contents	188
See Also	190
Channel Types	191
STANDARD Channels	192
Single-Track Video Input	192
Multitrack Video Input	193
ADVANCED-HD Channels	194
ADVANCED-SD Channels	196
BASIC Channels	197
Common Parameters	198
Common Errors	201

Welcome

Introduction

The Amazon Interactive Video Service (IVS) API is REST compatible, using a standard HTTP API and an AWS EventBridge event stream for responses. JSON is used for both requests and responses, including errors.

The API is an AWS regional service. For a list of supported regions and Amazon IVS HTTPS service endpoints, see the [Amazon IVS page](#) in the *AWS General Reference*.

All API request parameters and URLs are case sensitive.

For a summary of notable documentation changes in each release, see [Document History](#).

Allowed Header Values

- **Accept:** application/json
- **Accept-Encoding:** gzip, deflate
- **Content-Type:** application/json

Key Concepts

- **Channel** — Stores configuration data related to your live stream. You first create a channel and then use the channel's stream key to start your live stream.
- **Stream key** — An identifier assigned by Amazon IVS when you create a channel, which is then used to authorize streaming. ***Treat the stream key like a secret, since it allows anyone to stream to the channel.***
- **Playback key pair** — Video playback may be restricted using playback-authorization tokens, which use public-key encryption. A playback key pair is the public-private pair of keys used to sign and validate the playback-authorization token.
- **Recording configuration** — Stores configuration related to recording a live stream and where to store the recorded content. Multiple channels can reference the same recording configuration.
- **Playback restriction policy** — Restricts playback by countries and/or origin sites.

For more information about your IVS live stream, also see [Getting Started with IVS Low-Latency Streaming](#).

Tagging

A *tag* is a metadata label that you assign to an AWS resource. A tag comprises a *key* and a *value*, both set by you. For example, you might set a tag as `topic:nature` to label a particular video category. See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Tags can help you identify and organize your AWS resources. For example, you can use the same tag for different resources to indicate that they are related. You can also use tags to manage access (see [Access Tags](#)).

The Amazon IVS API has these tag-related operations: [TagResource](#), [UntagResource](#), and [ListTagsForResource](#). The following resources support tagging: Channels, Stream Keys, Playback Key Pairs, and Recording Configurations.

At most 50 tags can be applied to a resource.

Authentication versus Authorization

Note the differences between these concepts:

- *Authentication* is about verifying identity. You need to be authenticated to sign Amazon IVS API requests.
- *Authorization* is about granting permissions. Your IAM roles need to have permissions for Amazon IVS API requests. In addition, authorization is needed to view [Amazon IVS private channels](#). (Private channels are channels that are enabled for "playback authorization.")

Authentication

All Amazon IVS API requests must be authenticated with a signature. The AWS Command-Line Interface (CLI) and Amazon IVS Player SDKs take care of signing the underlying API calls for you. However, if your application calls the Amazon IVS API directly, it's your responsibility to sign the requests.

You generate a signature using valid AWS credentials that have permission to perform the requested action. For example, you must sign `PutMetadata` requests with a signature generated from a user account that has the `ivs:PutMetadata` permission.

For more information:

- Authentication and generating signatures — See [Authenticating Requests \(AWS Signature Version 4\)](#) in the *AWS General Reference*.
- Managing Amazon IVS permissions — See [Identity and Access Management](#) on the Security page of the *Amazon IVS User Guide*.

Amazon Resource Names (ARNs)

ARNs uniquely identify AWS resources. An ARN is required when you need to specify a resource unambiguously across all of AWS, such as in IAM policies and API calls. For more information, see [Amazon Resource Names](#) in the *AWS General Reference*.

This document was last published on February 28, 2025.

Actions

The following actions are supported:

- [BatchGetChannel](#)
- [BatchGetStreamKey](#)
- [BatchStartViewerSessionRevocation](#)
- [CreateChannel](#)
- [CreatePlaybackRestrictionPolicy](#)
- [CreateRecordingConfiguration](#)
- [CreateStreamKey](#)
- [DeleteChannel](#)
- [DeletePlaybackKeyPair](#)
- [DeletePlaybackRestrictionPolicy](#)
- [DeleteRecordingConfiguration](#)
- [DeleteStreamKey](#)
- [GetChannel](#)
- [GetPlaybackKeyPair](#)
- [GetPlaybackRestrictionPolicy](#)
- [GetRecordingConfiguration](#)
- [GetStream](#)
- [GetStreamKey](#)
- [GetStreamSession](#)
- [ImportPlaybackKeyPair](#)
- [ListChannels](#)
- [ListPlaybackKeyPairs](#)
- [ListPlaybackRestrictionPolicies](#)
- [ListRecordingConfigurations](#)
- [ListStreamKeys](#)
- [ListStreams](#)
- [ListStreamSessions](#)

- [ListTagsForResource](#)
- [PutMetadata](#)
- [StartViewerSessionRevocation](#)
- [StopStream](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateChannel](#)
- [UpdatePlaybackRestrictionPolicy](#)

BatchGetChannel

Performs [GetChannel](#) on multiple ARNs simultaneously.

Request Syntax

```
POST /BatchGetChannel HTTP/1.1
Content-type: application/json

{
  "arns": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arns

Array of ARNs, one per channel.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```

{
  "channels": [
    {
      "arn": "string",
      "authorized": boolean,
      "containerFormat": "string",
      "ingestEndpoint": "string",
      "insecureIngest": boolean,
      "latencyMode": "string",
      "multitrackInputConfiguration": {
        "enabled": boolean,
        "maximumResolution": "string",
        "policy": "string"
      },
      "name": "string",
      "playbackRestrictionPolicyArn": "string",
      "playbackUrl": "string",
      "preset": "string",
      "recordingConfigurationArn": "string",
      "srt": {
        "endpoint": "string",
        "passphrase": "string"
      },
      "tags": {
        "string" : "string"
      },
      "type": "string"
    }
  ],
  "errors": [
    {
      "arn": "string",
      "code": "string",
      "message": "string"
    }
  ]
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[channels](#)

Type: Array of [Channel](#) objects

[errors](#)

Each error object is related to a specific ARN in the request.

Type: Array of [BatchError](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

BatchGetStreamKey

Performs [GetStreamKey](#) on multiple ARNs simultaneously.

Request Syntax

```
POST /BatchGetStreamKey HTTP/1.1
Content-type: application/json
```

```
{
  "arns": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arns

Array of ARNs, one per stream key.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:stream-key/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
```

```
"errors": [  
  {  
    "arn": "string",  
    "code": "string",  
    "message": "string"  
  }  
],  
"streamKeys": [  
  {  
    "arn": "string",  
    "channelArn": "string",  
    "tags": {  
      "string" : "string"  
    },  
    "value": "string"  
  }  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

errors

Type: Array of [BatchError](#) objects

streamKeys

Type: Array of [StreamKey](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

BatchStartViewerSessionRevocation

Performs [StartViewerSessionRevocation](#) on multiple channel ARN and viewer ID pairs simultaneously.

Request Syntax

```
POST /BatchStartViewerSessionRevocation HTTP/1.1
Content-type: application/json

{
  "viewerSessions": [
    {
      "channelArn": "string",
      "viewerId": "string",
      "viewerSessionVersionsLessThanOrEqualTo": number
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

viewerSessions

Array of viewer sessions, one per channel-ARN and viewer-ID pair.

Type: Array of [BatchStartViewerSessionRevocationViewerSession](#) objects

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "errors": [
    {
      "channelArn": "string",
      "code": "string",
      "message": "string",
      "viewerId": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

errors

Each error object is related to a specific `channelArn` and `viewerId` pair in the request.

Type: Array of [BatchStartViewerSessionRevocationError](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

PendingVerification

HTTP Status Code: 403

ThrottlingException

HTTP Status Code: 429

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateChannel

Creates a new channel and an associated stream key to start streaming.

Request Syntax

```
POST /CreateChannel HTTP/1.1
Content-type: application/json

{
  "authorized": boolean,
  "containerFormat": "string",
  "insecureIngest": boolean,
  "latencyMode": "string",
  "multitrackInputConfiguration": {
    "enabled": boolean,
    "maximumResolution": "string",
    "policy": "string"
  },
  "name": "string",
  "playbackRestrictionPolicyArn": "string",
  "preset": "string",
  "recordingConfigurationArn": "string",
  "tags": {
    "string" : "string"
  },
  "type": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

authorized

Whether the channel is private (enabled for playback authorization). Default: `false`.

Type: Boolean

Required: No

containerFormat

Indicates which content-packaging format is used (MPEG-TS or fMP4). If `multitrackInputConfiguration` is specified and `enabled` is `true`, then `containerFormat` is required and must be set to `FRAGMENTED_MP4`. Otherwise, `containerFormat` may be set to `TS` or `FRAGMENTED_MP4`. Default: `TS`.

Type: String

Valid Values: `TS` | `FRAGMENTED_MP4`

Required: No

insecureIngest

Whether the channel allows insecure RTMP and SRT ingest. Default: `false`.

Type: Boolean

Required: No

latencyMode

Channel latency mode. Use `NORMAL` to broadcast and deliver live video up to Full HD. Use `LOW` for near-real-time interaction with viewers. Default: `LOW`.

Type: String

Valid Values: `NORMAL` | `LOW`

Required: No

multitrackInputConfiguration

Object specifying multitrack input configuration. Default: no multitrack input configuration is specified.

Type: [MultitrackInputConfiguration](#) object

Required: No

name

Channel name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9-]*

Required: No

playbackRestrictionPolicyArn

Playback-restriction-policy ARN. A valid ARN value here both specifies the ARN and enables playback restriction. Default: "" (empty string, no playback restriction policy is applied).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: ^\$|^arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-restriction-policy/[a-zA-Z0-9-]+\$

Required: No

preset

Optional transcode preset for the channel. This is selectable only for ADVANCED_HD and ADVANCED_SD channel types. For those channel types, the default preset is HIGHER_BANDWIDTH_DELIVERY. For other channel types (BASIC and STANDARD), preset is the empty string ("").

Type: String

Valid Values: HIGHER_BANDWIDTH_DELIVERY | CONSTRAINED_BANDWIDTH_DELIVERY

Required: No

recordingConfigurationArn

Recording-configuration ARN. A valid ARN value here both specifies the ARN and enables recording. Default: "" (empty string, recording is disabled).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^$|^arn:aws:ivs:[a-z0-9-]+:[0-9]+:recording-configuration/[a-zA-Z0-9-]+$`

Required: No

tags

Array of 1-50 maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

type

Channel type, which determines the allowable resolution and bitrate. *If you exceed the allowable input resolution or bitrate, the stream probably will disconnect immediately.* Default: STANDARD. For details, see [Channel Types](#).

Type: String

Valid Values: BASIC | STANDARD | ADVANCED_SD | ADVANCED_HD

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "channel": {
    "arn": "string",
```

```

    "authorized": boolean,
    "containerFormat": "string",
    "ingestEndpoint": "string",
    "insecureIngest": boolean,
    "latencyMode": "string",
    "multitrackInputConfiguration": {
      "enabled": boolean,
      "maximumResolution": "string",
      "policy": "string"
    },
    "name": "string",
    "playbackRestrictionPolicyArn": "string",
    "playbackUrl": "string",
    "preset": "string",
    "recordingConfigurationArn": "string",
    "srt": {
      "endpoint": "string",
      "passphrase": "string"
    },
    "tags": {
      "string" : "string"
    },
    "type": "string"
  },
  "streamKey": {
    "arn": "string",
    "channelArn": "string",
    "tags": {
      "string" : "string"
    },
    "value": "string"
  }
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

channel

Type: [Channel](#) object

[streamKey](#)

Type: [StreamKey](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

PendingVerification

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ServiceQuotaExceededException

HTTP Status Code: 402

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreatePlaybackRestrictionPolicy

Creates a new playback restriction policy, for constraining playback by countries and/or origins.

Request Syntax

```
POST /CreatePlaybackRestrictionPolicy HTTP/1.1
Content-type: application/json
```

```
{
  "allowedCountries": [ "string" ],
  "allowedOrigins": [ "string" ],
  "enableStrictOriginEnforcement": boolean,
  "name": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

allowedCountries

A list of country codes that control geoblocking restriction. Allowed values are the officially assigned [ISO 3166-1 alpha-2](#) codes. Default: All countries (an empty array).

Type: Array of strings

Length Constraints: Fixed length of 2.

Required: No

allowedOrigins

A list of origin sites that control CORS restriction. Allowed values are the same as valid values of the Origin header defined at <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Origin>. Default: All origins (an empty array).

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

enableStrictOriginEnforcement

Whether channel playback is constrained by origin site. Default: false.

Type: Boolean

Required: No

name

Playback-restriction-policy name. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9-_*]

Required: No

tags

Array of 1-50 maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "playbackRestrictionPolicy": {
    "allowedCountries": [ "string" ],
    "allowedOrigins": [ "string" ],
    "arn": "string",
    "enableStrictOriginEnforcement": boolean,
    "name": "string",
    "tags": {
      "string" : "string"
    }
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[playbackRestrictionPolicy](#)

Type: [PlaybackRestrictionPolicy](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

PendingVerification

HTTP Status Code: 403

ServiceQuotaExceededException

HTTP Status Code: 402

ThrottlingException

HTTP Status Code: 429

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateRecordingConfiguration

Creates a new recording configuration, used to enable recording to Amazon S3.

Known issue: In the us-east-1 region, if you use the AWS CLI to create a recording configuration, it returns success even if the S3 bucket is in a different region. In this case, the state of the recording configuration is CREATE_FAILED (instead of ACTIVE). (In other regions, the CLI correctly returns failure if the bucket is in a different region.)

Workaround: Ensure that your S3 bucket is in the same region as the recording configuration. If you create a recording configuration in a different region as your S3 bucket, delete that recording configuration and create a new one with an S3 bucket from the correct region.

Request Syntax

```
POST /CreateRecordingConfiguration HTTP/1.1
Content-type: application/json

{
  "destinationConfiguration": {
    "s3": {
      "bucketName": "string"
    }
  },
  "name": "string",
  "recordingReconnectWindowSeconds": number,
  "renditionConfiguration": {
    "renditions": [ "string" ],
    "renditionSelection": "string"
  },
  "tags": {
    "string" : "string"
  },
  "thumbnailConfiguration": {
    "recordingMode": "string",
    "resolution": "string",
    "storage": [ "string" ],
    "targetIntervalSeconds": number
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

destinationConfiguration

A complex type that contains a destination configuration for where recorded video will be stored.

Type: [DestinationConfiguration](#) object

Required: Yes

name

Recording-configuration name. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9-_*]

Required: No

recordingReconnectWindowSeconds

If a broadcast disconnects and then reconnects within the specified interval, the multiple streams will be considered a single broadcast and merged together. Default: 0.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

renditionConfiguration

Object that describes which renditions should be recorded for a stream.

Type: [RenditionConfiguration](#) object

Required: No

tags

Array of 1-50 maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

thumbnailConfiguration

A complex type that allows you to enable/disable the recording of thumbnails for a live session and modify the interval at which thumbnails are generated for the live session.

Type: [ThumbnailConfiguration](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "recordingConfiguration": {
    "arn": "string",
    "destinationConfiguration": {
      "s3": {
        "bucketName": "string"
      }
    },
    "name": "string",
```

```
"recordingReconnectWindowSeconds": number,
"renditionConfiguration": {
  "renditions": [ "string" ],
  "renditionSelection": "string"
},
"state": "string",
"tags": {
  "string" : "string"
},
"thumbnailConfiguration": {
  "recordingMode": "string",
  "resolution": "string",
  "storage": [ "string" ],
  "targetIntervalSeconds": number
}
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[recordingConfiguration](#)

An object representing a configuration to record a channel stream.

Type: [RecordingConfiguration](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ConflictException

HTTP Status Code: 409

InternalServerErrorException

HTTP Status Code: 500

PendingVerification

HTTP Status Code: 403

ServiceQuotaExceededException

HTTP Status Code: 402

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateStreamKey

Creates a stream key, used to initiate a stream, for the specified channel ARN.

Note that [CreateChannel](#) creates a stream key. If you subsequently use `CreateStreamKey` on the same channel, it will fail because a stream key already exists and there is a limit of 1 stream key per channel. To reset the stream key on a channel, use [DeleteStreamKey](#) and then `CreateStreamKey`.

Request Syntax

```
POST /CreateStreamKey HTTP/1.1
Content-type: application/json

{
  "channelArn": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[channelArn](#)

ARN of the channel for which to create the stream key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

tags

Array of 1-50 maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "streamKey": {
    "arn": "string",
    "channelArn": "string",
    "tags": {
      "string" : "string"
    },
    "value": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

streamKey

Stream key used to authenticate an RTMPS stream for ingestion.

Type: [StreamKey](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

PendingVerification

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ServiceQuotaExceededException

HTTP Status Code: 402

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteChannel

Deletes the specified channel and its associated stream keys.

If you try to delete a live channel, you will get an error (409 ConflictException). To delete a channel that is live, call [StopStream](#), wait for the Amazon EventBridge "Stream End" event (to verify that the stream's state is no longer Live), then call DeleteChannel. (See [Using EventBridge with Amazon IVS](#).)

Request Syntax

```
POST /DeleteChannel HTTP/1.1
Content-type: application/json

{
  "arn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arn

ARN of the channel to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 204
```


Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ConflictException

HTTP Status Code: 409

PendingVerification

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeletePlaybackKeyPair

Deletes a specified authorization key pair. This invalidates future viewer tokens generated using the key pair's `privateKey`. For more information, see [Setting Up Private Channels](#) in the *Amazon IVS User Guide*.

Request Syntax

```
POST /DeletePlaybackKeyPair HTTP/1.1
Content-type: application/json

{
  "arn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arn

ARN of the key pair to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-key/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

PendingVerification

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DeletePlaybackRestrictionPolicy

Deletes the specified playback restriction policy.

Request Syntax

```
POST /DeletePlaybackRestrictionPolicy HTTP/1.1
Content-type: application/json
```

```
{
  "arn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arn

ARN of the playback restriction policy to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-restriction-policy/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ConflictException

HTTP Status Code: 409

PendingVerification

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DeleteRecordingConfiguration

Deletes the recording configuration for the specified ARN.

If you try to delete a recording configuration that is associated with a channel, you will get an error (409 ConflictException). To avoid this, for all channels that reference the recording configuration, first use [UpdateChannel](#) to set the `recordingConfigurationArn` field to an empty string, then use `DeleteRecordingConfiguration`.

Request Syntax

```
POST /DeleteRecordingConfiguration HTTP/1.1
Content-type: application/json

{
  "arn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arn

ARN of the recording configuration to be deleted.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:recording-configuration/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ConflictException

HTTP Status Code: 409

InternalServerErrorException

HTTP Status Code: 500

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteStreamKey

Deletes the stream key for the specified ARN, so it can no longer be used to stream.

Request Syntax

```
POST /DeleteStreamKey HTTP/1.1
Content-type: application/json
```

```
{
  "arn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arn

ARN of the stream key to be deleted.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:stream-key/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

PendingVerification

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetChannel

Gets the channel configuration for the specified channel ARN. See also [BatchGetChannel](#).

Request Syntax

```
POST /GetChannel HTTP/1.1
Content-type: application/json
```

```
{
  "arn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[arn](#)

ARN of the channel for which the configuration is to be retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "channel": {
    "arn": "string",
```

```
"authorized": boolean,
"containerFormat": "string",
"ingestEndpoint": "string",
"insecureIngest": boolean,
"latencyMode": "string",
"multitrackInputConfiguration": {
  "enabled": boolean,
  "maximumResolution": "string",
  "policy": "string"
},
"name": "string",
"playbackRestrictionPolicyArn": "string",
"playbackUrl": "string",
"preset": "string",
"recordingConfigurationArn": "string",
"srt": {
  "endpoint": "string",
  "passphrase": "string"
},
"tags": {
  "string" : "string"
},
"type": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[channel](#)

Type: [Channel](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetPlaybackKeyPair

Gets a specified playback authorization key pair and returns the arn and fingerprint. The `privateKey` held by the caller can be used to generate viewer authorization tokens, to grant viewers access to private channels. For more information, see [Setting Up Private Channels](#) in the *Amazon IVS User Guide*.

Request Syntax

```
POST /GetPlaybackKeyPair HTTP/1.1
Content-type: application/json

{
  "arn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arn

ARN of the key pair to be returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-key/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "keyPair": {
    "arn": "string",
    "fingerprint": "string",
    "name": "string",
    "tags": {
      "string" : "string"
    }
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

keyPair

A key pair used to sign and validate a playback authorization token.

Type: [PlaybackKeyPair](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetPlaybackRestrictionPolicy

Gets the specified playback restriction policy.

Request Syntax

```
POST /GetPlaybackRestrictionPolicy HTTP/1.1
Content-type: application/json

{
  "arn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arn

ARN of the playback restriction policy to be returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-restriction-policy/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"playbackRestrictionPolicy": {
  "allowedCountries": [ "string" ],
  "allowedOrigins": [ "string" ],
  "arn": "string",
  "enableStrictOriginEnforcement": boolean,
  "name": "string",
  "tags": {
    "string" : "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[playbackRestrictionPolicy](#)

Type: [PlaybackRestrictionPolicy](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

PendingVerification

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetRecordingConfiguration

Gets the recording configuration for the specified ARN.

Request Syntax

```
POST /GetRecordingConfiguration HTTP/1.1
Content-type: application/json
```

```
{
  "arn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arn

ARN of the recording configuration to be retrieved.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:recording-configuration/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "recordingConfiguration": {
    "arn": "string",
    "destinationConfiguration": {
      "s3": {
        "bucketName": "string"
      }
    },
    "name": "string",
    "recordingReconnectWindowSeconds": number,
    "renditionConfiguration": {
      "renditions": [ "string" ],
      "renditionSelection": "string"
    },
    "state": "string",
    "tags": {
      "string" : "string"
    },
    "thumbnailConfiguration": {
      "recordingMode": "string",
      "resolution": "string",
      "storage": [ "string" ],
      "targetIntervalSeconds": number
    }
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

recordingConfiguration

An object representing a configuration to record a channel stream.

Type: [RecordingConfiguration](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

InternalServerErrorException

HTTP Status Code: 500

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetStream

Gets information about the active (live) stream on a specified channel.

Request Syntax

```
POST /GetStream HTTP/1.1
Content-type: application/json

{
  "channelArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[channelArn](#)

Channel ARN for stream to be accessed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "stream": {
```

```
"channelArn": "string",  
"health": "string",  
"playbackUrl": "string",  
"startTime": "string",  
"state": "string",  
"streamId": "string",  
"viewerCount": number  
}  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

stream

Type: [Stream](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ChannelNotBroadcasting

HTTP Status Code: 404

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetStreamKey

Gets stream-key information for a specified ARN.

Request Syntax

```
POST /GetStreamKey HTTP/1.1
Content-type: application/json
```

```
{
  "arn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arn

ARN for the stream key to be retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:stream-key/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "streamKey": {
    "arn": "string",
```

```
  "channelArn": "string",
  "tags": {
    "string" : "string"
  },
  "value": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

streamKey

Object specifying a stream key.

Type: [StreamKey](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetStreamSession

Gets metadata on a specified stream.

Request Syntax

```
POST /GetStreamSession HTTP/1.1
Content-type: application/json

{
  "channelArn": "string",
  "streamId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

channelArn

ARN of the channel resource

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

streamId

Unique identifier for a live or previously live stream in the specified channel. If no `streamId` is provided, this returns the most recent stream session for the channel, if it exists.

Type: String

Length Constraints: Fixed length of 26.

Pattern: `st-[a-zA-Z0-9]+`

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "streamSession": {
    "channel": {
      "arn": "string",
      "authorized": boolean,
      "containerFormat": "string",
      "ingestEndpoint": "string",
      "insecureIngest": boolean,
      "latencyMode": "string",
      "multitrackInputConfiguration": {
        "enabled": boolean,
        "maximumResolution": "string",
        "policy": "string"
      },
      "name": "string",
      "playbackRestrictionPolicyArn": "string",
      "playbackUrl": "string",
      "preset": "string",
      "recordingConfigurationArn": "string",
      "srt": {
        "endpoint": "string",
        "passphrase": "string"
      },
      "tags": {
        "string" : "string"
      },
      "type": "string"
    },
    "endTime": "string",
    "ingestConfiguration": {
      "audio": {
        "channels": number,
        "codec": "string",
        "sampleRate": number,
        "targetBitrate": number,
```

```
    "track": "string"
  },
  "video": {
    "avcLevel": "string",
    "avcProfile": "string",
    "codec": "string",
    "encoder": "string",
    "level": "string",
    "profile": "string",
    "targetBitrate": number,
    "targetFramerate": number,
    "track": "string",
    "videoHeight": number,
    "videoWidth": number
  }
},
"ingestConfigurations": {
  "audioConfigurations": [
    {
      "channels": number,
      "codec": "string",
      "sampleRate": number,
      "targetBitrate": number,
      "track": "string"
    }
  ],
  "videoConfigurations": [
    {
      "avcLevel": "string",
      "avcProfile": "string",
      "codec": "string",
      "encoder": "string",
      "level": "string",
      "profile": "string",
      "targetBitrate": number,
      "targetFramerate": number,
      "track": "string",
      "videoHeight": number,
      "videoWidth": number
    }
  ]
},
"recordingConfiguration": {
  "arn": "string",
```

```

    "destinationConfiguration": {
      "s3": {
        "bucketName": "string"
      }
    },
    "name": "string",
    "recordingReconnectWindowSeconds": number,
    "renditionConfiguration": {
      "renditions": [ "string" ],
      "renditionSelection": "string"
    },
    "state": "string",
    "tags": {
      "string" : "string"
    },
    "thumbnailConfiguration": {
      "recordingMode": "string",
      "resolution": "string",
      "storage": [ "string" ],
      "targetIntervalSeconds": number
    }
  },
  "startTime": "string",
  "streamId": "string",
  "truncatedEvents": [
    {
      "code": "string",
      "eventTime": "string",
      "name": "string",
      "type": "string"
    }
  ]
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

streamSession

List of stream details.

Type: [StreamSession](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ImportPlaybackKeyPair

Imports the public portion of a new key pair and returns its arn and fingerprint. The `privateKey` can then be used to generate viewer authorization tokens, to grant viewers access to private channels. For more information, see [Setting Up Private Channels](#) in the *Amazon IVS User Guide*.

Request Syntax

```
POST /ImportPlaybackKeyPair HTTP/1.1
Content-type: application/json

{
  "name": "string",
  "publicKeyMaterial": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

name

Playback-key-pair name. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_*]`*

Required: No

publicKeyMaterial

The public portion of a customer-generated key pair.

Type: String

Required: Yes

tags

Any tags provided with the request are added to the playback key pair tags. See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "keyPair": {
    "arn": "string",
    "fingerprint": "string",
    "name": "string",
    "tags": {
      "string" : "string"
    }
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[keyPair](#)

Type: [PlaybackKeyPair](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ConflictException

HTTP Status Code: 409

PendingVerification

HTTP Status Code: 403

ServiceQuotaExceededException

HTTP Status Code: 402

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListChannels

Gets summary information about all channels in your account, in the AWS region where the API request is processed. This list can be filtered to match a specified name or recording-configuration ARN. Filters are mutually exclusive and cannot be used together. If you try to use both filters, you will get an error (409 ConflictException).

Request Syntax

```
POST /ListChannels HTTP/1.1
Content-type: application/json

{
  "filterByName": "string",
  "filterByPlaybackRestrictionPolicyArn": "string",
  "filterByRecordingConfigurationArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filterByName

Filters the channel list to match the specified name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9-_*]

Required: No

filterByPlaybackRestrictionPolicyArn

Filters the channel list to match the specified policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^$|^arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-restriction-policy/[a-zA-Z0-9-]+$`

Required: No

filterByRecordingConfigurationArn

Filters the channel list to match the specified recording-configuration ARN.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^$|^arn:aws:ivs:[a-z0-9-]+:[0-9]+:recording-configuration/[a-zA-Z0-9-]+$`

Required: No

maxResults

Maximum number of channels to return. Default: 100.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The first channel to retrieve. This is used for pagination; see the nextToken response field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[a-zA-Z0-9+/_=-]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "channels": [
    {
      "arn": "string",
      "authorized": boolean,
      "insecureIngest": boolean,
      "latencyMode": "string",
      "name": "string",
      "playbackRestrictionPolicyArn": "string",
      "preset": "string",
      "recordingConfigurationArn": "string",
      "tags": {
        "string" : "string"
      },
      "type": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

channels

List of the matching channels.

Type: Array of [ChannelSummary](#) objects

nextToken

If there are more channels than `maxResults`, use `nextToken` in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[a-zA-Z0-9+/_=-]*`

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ConflictException

HTTP Status Code: 409

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListPlaybackKeyPairs

Gets summary information about playback key pairs. For more information, see [Setting Up Private Channels](#) in the *Amazon IVS User Guide*.

Request Syntax

```
POST /ListPlaybackKeyPairs HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[maxResults](#)

Maximum number of key pairs to return. Default: your service quota or 100, whichever is smaller.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

The first key pair to retrieve. This is used for pagination; see the nextToken response field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [a-zA-Z0-9+/_=-]*

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "keyPairs": [
    {
      "arn": "string",
      "name": "string",
      "tags": {
        "string" : "string"
      }
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

keyPairs

List of key pairs.

Type: Array of [PlaybackKeyPairSummary](#) objects

nextToken

If there are more key pairs than `maxResults`, use `nextToken` in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [a-zA-Z0-9+/_-]*

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListPlaybackRestrictionPolicies

Gets summary information about playback restriction policies.

Request Syntax

```
POST /ListPlaybackRestrictionPolicies HTTP/1.1
Content-type: application/json
```

```
{
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

Maximum number of policies to return. Default: 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The first policy to retrieve. This is used for pagination; see the nextToken response field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [a-zA-Z0-9+/_=-]*

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "playbackRestrictionPolicies": [
    {
      "allowedCountries": [ "string" ],
      "allowedOrigins": [ "string" ],
      "arn": "string",
      "enableStrictOriginEnforcement": boolean,
      "name": "string",
      "tags": {
        "string" : "string"
      }
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

If there are more channels than `maxResults`, use `nextToken` in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[a-zA-Z0-9+/_=-]*`

playbackRestrictionPolicies

List of the matching policies.

Type: Array of [PlaybackRestrictionPolicySummary](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ConflictException

HTTP Status Code: 409

PendingVerification

HTTP Status Code: 403

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListRecordingConfigurations

Gets summary information about all recording configurations in your account, in the AWS region where the API request is processed.

Request Syntax

```
POST /ListRecordingConfigurations HTTP/1.1
Content-type: application/json

{
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

Maximum number of recording configurations to return. Default: your service quota or 100, whichever is smaller.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The first recording configuration to retrieve. This is used for pagination; see the nextToken response field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [a-zA-Z0-9+/_=-]*

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "recordingConfigurations": [
    {
      "arn": "string",
      "destinationConfiguration": {
        "s3": {
          "bucketName": "string"
        }
      },
      "name": "string",
      "state": "string",
      "tags": {
        "string" : "string"
      }
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

If there are more recording configurations than `maxResults`, use `nextToken` in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [a-zA-Z0-9+/_-]*

recordingConfigurations

List of the matching recording configurations.

Type: Array of [RecordingConfigurationSummary](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

InternalServerError

HTTP Status Code: 500

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

ListStreamKeys

Gets summary information about stream keys for the specified channel.

Request Syntax

```
POST /ListStreamKeys HTTP/1.1
Content-type: application/json

{
  "channelArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

channelArn

Channel ARN used to filter the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

maxResults

Maximum number of streamKeys to return. Default: 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

[nextToken](#)

The first stream key to retrieve. This is used for pagination; see the `nextToken` response field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[a-zA-Z0-9+/_=-]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "streamKeys": [
    {
      "arn": "string",
      "channelArn": "string",
      "tags": {
        "string" : "string"
      }
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

If there are more stream keys than `maxResults`, use `nextToken` in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [a-zA-Z0-9+/_=-]*

streamKeys

List of stream keys.

Type: Array of [StreamKeySummary](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListStreams

Gets summary information about live streams in your account, in the AWS region where the API request is processed.

Request Syntax

```
POST /ListStreams HTTP/1.1
Content-type: application/json
```

```
{
  "filterBy": {
    "health": "string"
  },
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filterBy

Filters the stream list to match the specified criterion.

Type: [StreamFilters](#) object

Required: No

maxResults

Maximum number of streams to return. Default: 100.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

The first stream to retrieve. This is used for pagination; see the nextToken response field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [a-zA-Z0-9+/_=-]*

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "streams": [
    {
      "channelArn": "string",
      "health": "string",
      "startTime": "string",
      "state": "string",
      "streamId": "string",
      "viewerCount": number
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

If there are more streams than maxResults, use nextToken in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [a-zA-Z0-9+/_-]*

streams

List of streams.

Type: Array of [StreamSummary](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListStreamSessions

Gets a summary of current and previous streams for a specified channel in your account, in the AWS region where the API request is processed.

Request Syntax

```
POST /ListStreamSessions HTTP/1.1
Content-type: application/json
```

```
{
  "channelArn": "string",
  "maxResults": number,
  "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

channelArn

Channel ARN used to filter the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

maxResults

Maximum number of streams to return. Default: 100.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

The first stream to retrieve. This is used for pagination; see the nextToken response field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [a-zA-Z0-9+/_=-]*

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "streamSessions": [
    {
      "endTime": "string",
      "hasErrorEvent": boolean,
      "startTime": "string",
      "streamId": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

If there are more streams than maxResults, use nextToken in the request to get the next set.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [a-zA-Z0-9+/_-]*

streamSessions

List of stream sessions.

Type: Array of [StreamSessionSummary](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Gets information about AWS tags for the specified ARN.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The ARN of the resource to be retrieved. The ARN must be URL-encoded.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:[a-z-]/[a-zA-Z0-9-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tags

Tags attached to the resource. Array of maps, each of the form `string:string` (`key:value`).

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

InternalServerErrorException

HTTP Status Code: 500

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

PutMetadata

Inserts metadata into the active stream of the specified channel. At most 5 requests per second per channel are allowed, each with a maximum 1 KB payload. (If 5 TPS is not sufficient for your needs, we recommend batching your data into a single PutMetadata call.) At most 155 requests per second per account are allowed. Also see [Embedding Metadata within a Video Stream](#) in the *Amazon IVS User Guide*.

Request Syntax

```
POST /PutMetadata HTTP/1.1
Content-type: application/json

{
  "channelArn": "string",
  "metadata": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[channelArn](#)

ARN of the channel into which metadata is inserted. This channel must have an active stream.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

[metadata](#)

Metadata to insert into the stream. Maximum: 1 KB per request.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

Response Syntax

```
HTTP/1.1 204
```

Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ChannelNotBroadcasting

HTTP Status Code: 404

ResourceNotFoundException

HTTP Status Code: 404

ThrottlingException

HTTP Status Code: 429

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartViewerSessionRevocation

Starts the process of revoking the viewer session associated with a specified channel ARN and viewer ID. Optionally, you can provide a version to revoke viewer sessions less than and including that version. For instructions on associating a viewer ID with a viewer session, see [Setting Up Private Channels](#).

Request Syntax

```
POST /StartViewerSessionRevocation HTTP/1.1
Content-type: application/json

{
  "channelArn": "string",
  "viewerId": "string",
  "viewerSessionVersionsLessThanOrEqualTo": number
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[channelArn](#)

The ARN of the channel associated with the viewer session to revoke.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

[viewerId](#)

The ID of the viewer associated with the viewer session to revoke. Do not use this field for personally identifying, confidential, or sensitive information.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Required: Yes

viewerSessionVersionsLessThanOrEqualTo

An optional filter on which versions of the viewer session to revoke. All versions less than or equal to the specified version will be revoked. Default: 0.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

InternalServerErrorException

HTTP Status Code: 500

PendingVerification

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ThrottlingException

HTTP Status Code: 429

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StopStream

Disconnects the incoming RTMPS stream for the specified channel. Can be used in conjunction with [DeleteStreamKey](#) to prevent further streaming to a channel.

Note

Many streaming client-software libraries automatically reconnect a dropped RTMPS session, so to stop the stream permanently, you may want to first revoke the `streamKey` attached to the channel.

Request Syntax

```
POST /StopStream HTTP/1.1
Content-type: application/json

{
  "channelArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[channelArn](#)

ARN of the channel for which the stream is to be stopped.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ChannelNotBroadcasting

HTTP Status Code: 404

ResourceNotFoundException

HTTP Status Code: 404

StreamUnavailable

HTTP Status Code: 503

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Adds or updates tags for the AWS resource with the specified ARN.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json
```

```
{
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

ARN of the resource for which tags are to be added or updated. The ARN must be URL-encoded.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:[a-z-]/[a-zA-Z0-9-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

Array of tags to be added or updated. Array of maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

InternalServerErrorException

HTTP Status Code: 500

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Removes tags from the resource with the specified ARN.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

ARN of the resource for which tags are to be removed. The ARN must be URL-encoded.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:[a-z-]/[a-zA-Z0-9-]+`

Required: Yes

tagKeys

Array of tag keys (strings) for the tags to be removed. See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

InternalServerError

HTTP Status Code: 500

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateChannel

Updates a channel's configuration. Live channels cannot be updated. You must stop the ongoing stream, update the channel, and restart the stream for the changes to take effect.

Request Syntax

```
POST /UpdateChannel HTTP/1.1
Content-type: application/json

{
  "arn": "string",
  "authorized": boolean,
  "containerFormat": "string",
  "insecureIngest": boolean,
  "latencyMode": "string",
  "multitrackInputConfiguration": {
    "enabled": boolean,
    "maximumResolution": "string",
    "policy": "string"
  },
  "name": "string",
  "playbackRestrictionPolicyArn": "string",
  "preset": "string",
  "recordingConfigurationArn": "string",
  "type": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

arn

ARN of the channel to be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

authorized

Whether the channel is private (enabled for playback authorization).

Type: Boolean

Required: No

containerFormat

Indicates which content-packaging format is used (MPEG-TS or fMP4). If `multitrackInputConfiguration` is specified and `enabled` is `true`, then `containerFormat` is required and must be set to `FRAGMENTED_MP4`. Otherwise, `containerFormat` may be set to `TS` or `FRAGMENTED_MP4`. Default: `TS`.

Type: String

Valid Values: `TS` | `FRAGMENTED_MP4`

Required: No

insecureIngest

Whether the channel allows insecure RTMP and SRT ingest. Default: `false`.

Type: Boolean

Required: No

latencyMode

Channel latency mode. Use `NORMAL` to broadcast and deliver live video up to Full HD. Use `LOW` for near-real-time interaction with viewers.

Type: String

Valid Values: `NORMAL` | `LOW`

Required: No

multitrackInputConfiguration

Object specifying multitrack input configuration. Default: no multitrack input configuration is specified.

Type: [MultitrackInputConfiguration](#) object

Required: No

name

Channel name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9-]*

Required: No

playbackRestrictionPolicyArn

Playback-restriction-policy ARN. A valid ARN value here both specifies the ARN and enables playback restriction. If this is set to an empty string, playback restriction policy is disabled.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: ^\$|^arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-restriction-policy/[a-zA-Z0-9-]+\$

Required: No

preset

Optional transcode preset for the channel. This is selectable only for ADVANCED_HD and ADVANCED_SD channel types. For those channel types, the default preset is HIGHER_BANDWIDTH_DELIVERY. For other channel types (BASIC and STANDARD), preset is the empty string ("").

Type: String

Valid Values: HIGHER_BANDWIDTH_DELIVERY | CONSTRAINED_BANDWIDTH_DELIVERY

Required: No

recordingConfigurationArn

Recording-configuration ARN. A valid ARN value here both specifies the ARN and enables recording. If this is set to an empty string, recording is disabled.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^$|^arn:aws:ivs:[a-z0-9-]+:[0-9]+:recording-configuration/[a-zA-Z0-9-]+$`

Required: No

type

Channel type, which determines the allowable resolution and bitrate. *If you exceed the allowable input resolution or bitrate, the stream probably will disconnect immediately.* Default: STANDARD. For details, see [Channel Types](#).

Type: String

Valid Values: BASIC | STANDARD | ADVANCED_SD | ADVANCED_HD

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "channel": {
    "arn": "string",
    "authorized": boolean,
    "containerFormat": "string",
    "ingestEndpoint": "string",
    "insecureIngest": boolean,
    "latencyMode": "string",
    "multitrackInputConfiguration": {
      "enabled": boolean,
```

```
    "maximumResolution": "string",
    "policy": "string"
  },
  "name": "string",
  "playbackRestrictionPolicyArn": "string",
  "playbackUrl": "string",
  "preset": "string",
  "recordingConfigurationArn": "string",
  "srt": {
    "endpoint": "string",
    "passphrase": "string"
  },
  "tags": {
    "string" : "string"
  },
  "type": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

channel

Object specifying the updated channel.

Type: [Channel](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ConflictException

HTTP Status Code: 409

PendingVerification

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdatePlaybackRestrictionPolicy

Updates a specified playback restriction policy.

Request Syntax

```
POST /UpdatePlaybackRestrictionPolicy HTTP/1.1
Content-type: application/json

{
  "allowedCountries": [ "string" ],
  "allowedOrigins": [ "string" ],
  "arn": "string",
  "enableStrictOriginEnforcement": boolean,
  "name": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

allowedCountries

A list of country codes that control geoblocking restriction. Allowed values are the officially assigned [ISO 3166-1 alpha-2](#) codes. Default: All countries (an empty array).

Type: Array of strings

Length Constraints: Fixed length of 2.

Required: No

allowedOrigins

A list of origin sites that control CORS restriction. Allowed values are the same as valid values of the Origin header defined at <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Origin>. Default: All origins (an empty array).

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: No

arn

ARN of the playback-restriction-policy to be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-restriction-policy/[a-zA-Z0-9-]+`

Required: Yes

enableStrictOriginEnforcement

Whether channel playback is constrained by origin site. Default: `false`.

Type: Boolean

Required: No

name

Playback-restriction-policy name. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_*]`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"playbackRestrictionPolicy": {
  "allowedCountries": [ "string" ],
  "allowedOrigins": [ "string" ],
  "arn": "string",
  "enableStrictOriginEnforcement": boolean,
  "name": "string",
  "tags": {
    "string" : "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[playbackRestrictionPolicy](#)

Object specifying the updated policy.

Type: [PlaybackRestrictionPolicy](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#).

AccessDeniedException

HTTP Status Code: 403

ConflictException

HTTP Status Code: 409

PendingVerification

HTTP Status Code: 403

ResourceNotFoundException

HTTP Status Code: 404

ValidationException

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The Amazon Interactive Video Service API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AudioConfiguration](#)
- [BatchError](#)
- [BatchStartViewerSessionRevocationError](#)
- [BatchStartViewerSessionRevocationViewerSession](#)
- [Channel](#)
- [ChannelSummary](#)
- [DestinationConfiguration](#)
- [IngestConfiguration](#)
- [IngestConfigurations](#)
- [MultitrackInputConfiguration](#)
- [PlaybackKeyPair](#)
- [PlaybackKeyPairSummary](#)
- [PlaybackRestrictionPolicy](#)
- [PlaybackRestrictionPolicySummary](#)
- [RecordingConfiguration](#)
- [RecordingConfigurationSummary](#)
- [RenditionConfiguration](#)
- [S3DestinationConfiguration](#)
- [Srt](#)
- [Stream](#)

- [StreamEvent](#)
- [StreamFilters](#)
- [StreamKey](#)
- [StreamKeySummary](#)
- [StreamSession](#)
- [StreamSessionSummary](#)
- [StreamSummary](#)
- [ThumbnailConfiguration](#)
- [VideoConfiguration](#)

AudioConfiguration

Object specifying a stream's audio configuration, as set up by the broadcaster (usually in an encoder). This is part of the [IngestConfigurations](#) object and the deprecated [IngestConfiguration](#) object. It is used for monitoring stream health.

Contents

channels

Number of audio channels.

Type: Long

Required: No

codec

Codec used for the audio encoding.

Type: String

Required: No

sampleRate

Number of audio samples recorded per second.

Type: Long

Required: No

targetBitrate

The expected ingest bitrate (bits per second). This is configured in the encoder.

Type: Long

Required: No

track

Name of the audio track (if the stream has an audio track). If multitrack is not enabled, this is Track0 (the sole track).

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BatchError

Error related to a specific channel, specified by its ARN.

Contents

arn

ARN of an IVS resource; e.g., channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:[a-z-]/[a-zA-Z0-9-]+`

Required: No

code

Error code.

Type: String

Required: No

message

Error message, determined by the application.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BatchStartViewerSessionRevocationError

Error for a request in the batch for BatchStartViewerSessionRevocation. Each error is related to a specific channel-ARN and viewer-ID pair.

Contents

channelArn

Channel ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

viewerId

The ID of the viewer session to revoke.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Required: Yes

code

Error code.

Type: String

Required: No

message

Error message, determined by the application.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BatchStartViewerSessionRevocationViewerSession

A viewer session to revoke in the call to [BatchStartViewerSessionRevocation](#).

Contents

channelArn

The ARN of the channel associated with the viewer session to revoke.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: Yes

viewerId

The ID of the viewer associated with the viewer session to revoke. Do not use this field for personally identifying, confidential, or sensitive information.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Required: Yes

viewerSessionVersionsLessThanOrEqualTo

An optional filter on which versions of the viewer session to revoke. All versions less than or equal to the specified version will be revoked. Default: 0.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Channel

Object specifying a channel.

Contents

arn

Channel ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: No

authorized

Whether the channel is private (enabled for playback authorization). Default: `false`.

Type: Boolean

Required: No

containerFormat

Indicates which content-packaging format is used (MPEG-TS or fMP4). If `multitrackInputConfiguration` is specified and `enabled` is `true`, then `containerFormat` is required and must be set to `FRAGMENTED_MP4`. Otherwise, `containerFormat` may be set to `TS` or `FRAGMENTED_MP4`. Default: `TS`.

Type: String

Valid Values: `TS` | `FRAGMENTED_MP4`

Required: No

ingestEndpoint

Channel ingest endpoint, part of the definition of an ingest server, used when you set up streaming software.

Type: String

Required: No

insecureIngest

Whether the channel allows insecure RTMP ingest. Default: false.

Type: Boolean

Required: No

latencyMode

Channel latency mode. Use NORMAL to broadcast and deliver live video up to Full HD. Use LOW for near-real-time interaction with viewers. Default: LOW.

Type: String

Valid Values: NORMAL | LOW

Required: No

multitrackInputConfiguration

Object specifying multitrack input configuration. Default: no multitrack input configuration is specified.

Type: [MultitrackInputConfiguration](#) object

Required: No

name

Channel name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9-_*]

Required: No

playbackRestrictionPolicyArn

Playback-restriction-policy ARN. A valid ARN value here both specifies the ARN and enables playback restriction. Default: "" (empty string, no playback restriction policy is applied).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^$|^arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-restriction-policy/[a-zA-Z0-9-]+$`

Required: No

playbackUrl

Channel playback URL.

Type: String

Required: No

preset

Optional transcode preset for the channel. This is selectable only for `ADVANCED_HD` and `ADVANCED_SD` channel types. For those channel types, the default preset is `HIGHER_BANDWIDTH_DELIVERY`. For other channel types (`BASIC` and `STANDARD`), preset is the empty string (`""`).

Type: String

Valid Values: `HIGHER_BANDWIDTH_DELIVERY` | `CONSTRAINED_BANDWIDTH_DELIVERY`

Required: No

recordingConfigurationArn

Recording-configuration ARN. A valid ARN value here both specifies the ARN and enables recording. Default: `""` (empty string, recording is disabled).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^$|^arn:aws:ivs:[a-z0-9-]+:[0-9]+:recording-configuration/[a-zA-Z0-9-]+$`

Required: No

srt

Specifies the endpoint and optional passphrase for streaming with the SRT protocol.

Type: [Srt](#) object

Required: No

tags

Tags attached to the resource. Array of 1-50 maps, each of the form `string:string` (`key:value`). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

type

Channel type, which determines the allowable resolution and bitrate. *If you exceed the allowable input resolution or bitrate, the stream probably will disconnect immediately.* Default: STANDARD. For details, see [Channel Types](#).

Type: String

Valid Values: BASIC | STANDARD | ADVANCED_SD | ADVANCED_HD

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ChannelSummary

Summary information about a channel.

Contents

arn

Channel ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: No

authorized

Whether the channel is private (enabled for playback authorization). Default: `false`.

Type: Boolean

Required: No

insecureIngest

Whether the channel allows insecure RTMP ingest. Default: `false`.

Type: Boolean

Required: No

latencyMode

Channel latency mode. Use `NORMAL` to broadcast and deliver live video up to Full HD. Use `LOW` for near-real-time interaction with viewers. Default: `LOW`.

Type: String

Valid Values: `NORMAL` | `LOW`

Required: No

name

Channel name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_*]`

Required: No

playbackRestrictionPolicyArn

Playback-restriction-policy ARN. A valid ARN value here both specifies the ARN and enables playback restriction. Default: "" (empty string, no playback restriction policy is applied).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^$|^arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-restriction-policy/[a-zA-Z0-9-]+$`

Required: No

preset

Optional transcode preset for the channel. This is selectable only for `ADVANCED_HD` and `ADVANCED_SD` channel types. For those channel types, the default preset is `HIGHER_BANDWIDTH_DELIVERY`. For other channel types (`BASIC` and `STANDARD`), preset is the empty string ("").

Type: String

Valid Values: `HIGHER_BANDWIDTH_DELIVERY` | `CONSTRAINED_BANDWIDTH_DELIVERY`

Required: No

recordingConfigurationArn

Recording-configuration ARN. A valid ARN value here both specifies the ARN and enables recording. Default: "" (empty string, recording is disabled).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `^\$|^arn:aws:ivs:[a-z0-9-]+:[0-9]+:recording-configuration/[a-zA-Z0-9-]+\$`

Required: No

tags

Tags attached to the resource. Array of 1-50 maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

type

Channel type, which determines the allowable resolution and bitrate. *If you exceed the allowable input resolution or bitrate, the stream probably will disconnect immediately.* Default: STANDARD. For details, see [Channel Types](#).

Type: String

Valid Values: BASIC | STANDARD | ADVANCED_SD | ADVANCED_HD

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DestinationConfiguration

A complex type that describes a location where recorded videos will be stored. Each member represents a type of destination configuration. For recording, you define one and only one type of destination configuration.

Contents

s3

An S3 destination configuration where recorded videos will be stored.

Type: [S3DestinationConfiguration](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IngestConfiguration

Object specifying the ingest configuration set up by the broadcaster, usually in an encoder.

Note: IngestConfiguration is deprecated in favor of [IngestConfigurations](#) but retained to ensure backward compatibility. If multitrack is not enabled, IngestConfiguration and IngestConfigurations contain the same data, namely information about Track0 (the sole track). If multitrack is enabled, IngestConfiguration contains data for only the first track (Track0) and IngestConfigurations contains data for all tracks.

Contents

audio

Encoder settings for audio.

Type: [AudioConfiguration](#) object

Required: No

video

Encoder settings for video.

Type: [VideoConfiguration](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IngestConfigurations

Object specifying the ingest configuration set up by the broadcaster, usually in an encoder.

Note: Use `IngestConfigurations` instead of [IngestConfiguration](#) (which is deprecated). If multitrack is not enabled, `IngestConfiguration` and `IngestConfigurations` contain the same data, namely information about `Track0` (the sole track). If multitrack is enabled, `IngestConfiguration` contains data for only the first track (`Track0`) and `IngestConfigurations` contains data for all tracks.

Contents

audioConfigurations

Encoder settings for audio.

Type: Array of [AudioConfiguration](#) objects

Required: Yes

videoConfigurations

Encoder settings for video

Type: Array of [VideoConfiguration](#) objects

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MultitrackInputConfiguration

A complex type that specifies multitrack input configuration.

Contents

enabled

Indicates whether multitrack input is enabled. Can be set to `true` only if channel type is `STANDARD`. Setting `enabled` to `true` with any other channel type will cause an exception. If `true`, then `policy`, `maximumResolution`, and `containerFormat` are required, and `containerFormat` must be set to `FRAGMENTED_MP4`. Default: `false`.

Type: Boolean

Required: No

maximumResolution

Maximum resolution for multitrack input. Required if `enabled` is `true`.

Type: String

Valid Values: `SD` | `HD` | `FULL_HD`

Required: No

policy

Indicates whether multitrack input is allowed or required. Required if `enabled` is `true`.

Type: String

Valid Values: `ALLOW` | `REQUIRE`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PlaybackKeyPair

A key pair used to sign and validate a playback authorization token.

Contents

arn

Key-pair ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-key/[a-zA-Z0-9-]+`

Required: No

fingerprint

Key-pair identifier.

Type: String

Required: No

name

Playback-key-pair name. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9-]*`

Required: No

tags

Tags attached to the resource. Array of 1-50 maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PlaybackKeyPairSummary

Summary information about a playback key pair.

Contents

arn

Key-pair ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-key/[a-zA-Z0-9-]+`

Required: No

name

Playback-key-pair name. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9-]*`

Required: No

tags

Tags attached to the resource. Array of 1-50 maps, each of the form `string:string` (`key:value`). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PlaybackRestrictionPolicy

An object representing a policy to constrain playback by country and/or origin sites.

Contents

allowedCountries

A list of country codes that control geoblocking restriction. Allowed values are the officially assigned [ISO 3166-1 alpha-2](https://www.iso.org/standard/51065.html) codes. Default: All countries (an empty array).

Type: Array of strings

Length Constraints: Fixed length of 2.

Required: Yes

allowedOrigins

A list of origin sites that control CORS restriction. Allowed values are the same as valid values of the Origin header defined at <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Origin>. Default: All origins (an empty array).

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: Yes

arn

Playback-restriction-policy ARN

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-restriction-policy/[a-zA-Z0-9-]+`

Required: Yes

enableStrictOriginEnforcement

Whether channel playback is constrained by origin site. Default: `false`.

Type: Boolean

Required: No

name

Playback-restriction-policy name. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9-_*]

Required: No

tags

Tags attached to the resource. Array of 1-50 maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PlaybackRestrictionPolicySummary

Summary information about a PlaybackRestrictionPolicy.

Contents

allowedCountries

A list of country codes that control geoblocking restriction. Allowed values are the officially assigned [ISO 3166-1 alpha-2](#) codes. Default: All countries (an empty array).

Type: Array of strings

Length Constraints: Fixed length of 2.

Required: Yes

allowedOrigins

A list of origin sites that control CORS restriction. Allowed values are the same as valid values of the Origin header defined at <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Origin>. Default: All origins (an empty array).

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 128.

Required: Yes

arn

Playback-restriction-policy ARN

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:playback-restriction-policy/[a-zA-Z0-9-]+`

Required: Yes

enableStrictOriginEnforcement

Whether channel playback is constrained by origin site. Default: `false`.

Type: Boolean

Required: No

name

Playback-restriction-policy name. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9-_*]

Required: No

tags

Tags attached to the resource. Array of 1-50 maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RecordingConfiguration

An object representing a configuration to record a channel stream.

Contents

arn

Recording-configuration ARN.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:recording-configuration/[a-zA-Z0-9-]+`

Required: Yes

destinationConfiguration

A complex type that contains information about where recorded video will be stored.

Type: [DestinationConfiguration](#) object

Required: Yes

state

Indicates the current state of the recording configuration. When the state is ACTIVE, the configuration is ready for recording a channel stream.

Type: String

Valid Values: CREATING | CREATE_FAILED | ACTIVE

Required: Yes

name

Recording-configuration name. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: [a-zA-Z0-9-_*]

Required: No

recordingReconnectWindowSeconds

If a broadcast disconnects and then reconnects within the specified interval, the multiple streams will be considered a single broadcast and merged together. Default: 0.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 300.

Required: No

renditionConfiguration

Object that describes which renditions should be recorded for a stream.

Type: [RenditionConfiguration](#) object

Required: No

tags

Tags attached to the resource. Array of 1-50 maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

thumbnailConfiguration

A complex type that allows you to enable/disable the recording of thumbnails for a live session and modify the interval at which thumbnails are generated for the live session.

Type: [ThumbnailConfiguration](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RecordingConfigurationSummary

Summary information about a RecordingConfiguration.

Contents

arn

Recording-configuration ARN.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:recording-configuration/[a-zA-Z0-9-]+`

Required: Yes

destinationConfiguration

A complex type that contains information about where recorded video will be stored.

Type: [DestinationConfiguration](#) object

Required: Yes

state

Indicates the current state of the recording configuration. When the state is ACTIVE, the configuration is ready for recording a channel stream.

Type: String

Valid Values: CREATING | CREATE_FAILED | ACTIVE

Required: Yes

name

Recording-configuration name. The value does not need to be unique.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_*]`*

Required: No

tags

Tags attached to the resource. Array of 1-50 maps, each of the form `string:string` (key:value). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RenditionConfiguration

Object that describes which renditions should be recorded for a stream.

Contents

renditions

Indicates which renditions are recorded for a stream, if `renditionSelection` is `CUSTOM`; otherwise, this field is irrelevant. The selected renditions are recorded if they are available during the stream. If a selected rendition is unavailable, the best available rendition is recorded. For details on the resolution dimensions of each rendition, see [Auto-Record to Amazon S3](#).

Type: Array of strings

Valid Values: SD | HD | FULL_HD | LOWEST_RESOLUTION

Required: No

renditionSelection

Indicates which set of renditions are recorded for a stream. For `BASIC` channels, the `CUSTOM` value has no effect. If `CUSTOM` is specified, a set of renditions must be specified in the `renditions` field. Default: `ALL`.

Type: String

Valid Values: ALL | NONE | CUSTOM

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

S3DestinationConfiguration

A complex type that describes an S3 location where recorded videos will be stored.

Contents

bucketName

Location (S3 bucket name) where recorded videos will be stored.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

Pattern: [a-z0-9- .]+

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Srt

Specifies information needed to stream using the SRT protocol.

Contents

endpoint

The endpoint to be used when streaming with IVS using the SRT protocol.

Type: String

Required: No

passphrase

Auto-generated passphrase to enable encryption. This field is applicable only if the end user has *not* enabled the `insecureIngest` option for the channel.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Stream

Specifies a live video stream that has been ingested and distributed.

Contents

channelArn

Channel ARN for the stream.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: No

health

The stream's health.

Type: String

Valid Values: HEALTHY | STARVING | UNKNOWN

Required: No

playbackUrl

URL of the master playlist, required by the video player to play the HLS stream.

Type: String

Required: No

startTime

Time of the stream's start. This is an ISO 8601 timestamp; *note that this is returned as a string.*

Type: Timestamp

Required: No

state

The stream's state. Do not rely on the OFFLINE state, as the API may not return it; instead, a "NotBroadcasting" error will indicate that the stream is not live.

Type: String

Valid Values: LIVE | OFFLINE

Required: No

streamId

Unique identifier for a live or previously live stream in the specified channel.

Type: String

Length Constraints: Fixed length of 26.

Pattern: st-[a-zA-Z0-9]+

Required: No

viewerCount

A count of concurrent views of the stream. Typically, a new view appears in viewerCount within 15 seconds of when video playback starts and a view is removed from viewerCount within 1 minute of when video playback ends. A value of -1 indicates that the request timed out; in this case, retry.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamEvent

Object specifying a stream's events. For a list of events, see [Using Amazon EventBridge with Amazon IVS](#).

Contents

code

Provides additional details about the stream event. There are several values; the long descriptions are provided in the IVS console but not delivered through the IVS API or EventBridge. Multitrack-related codes are used only for certain Session Ended events.

- `MultitrackInputNotAllowed` — The broadcast client attempted to connect with multitrack input, but multitrack input was not enabled on the channel. Check your broadcast software settings or set `MultitrackInputConfiguration.Policy` to `ALLOW` or `REQUIRE`.
- `MultitrackInputRequired` — The broadcast client attempted to connect with single-track video, but multitrack input is required on this channel. Enable multitrack video in your broadcast software or configure the channel's `MultitrackInputConfiguration.Policy` to `ALLOW`.
- `InvalidGetClientConfigurationStreamKey` — The broadcast client attempted to connect with an invalid, expired, or corrupt stream key.
- `GetClientConfigurationStreamKeyRequired` — The broadcast client attempted to stream multitrack video without providing an authenticated stream key from `GetClientConfiguration`.
- `InvalidMultitrackInputTrackCount` — The multitrack input stream contained an invalid number of tracks.
- `InvalidMultitrackInputVideoTrackMediaProperties` — The multitrack input stream contained one or more tracks with an invalid codec, resolution, bitrate, or framerate.
- `StreamTakeoverMediaMismatch` — The broadcast client attempted to take over with different media properties (e.g., codec, resolution, or video track type) from the original stream.
- `StreamTakeoverInvalidPriority` — The broadcast client attempted a takeover with either a priority integer value equal to or lower than the original stream's value or a value outside the allowed range of 1 to 2,147,483,647.

StreamTakeoverLimitBreach — The broadcast client reached the maximum allowed takeover attempts for this stream.

Type: String

Required: No

eventTime

Time when the event occurred. This is an ISO 8601 timestamp; *note that this is returned as a string*.

Type: Timestamp

Required: No

name

Name that identifies the stream event within a type.

Type: String

Required: No

type

Logical group for certain events.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamFilters

Object specifying the stream attribute on which to filter.

Contents

health

The stream's health.

Type: String

Valid Values: HEALTHY | STARVING | UNKNOWN

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamKey

Object specifying a stream key.

Contents

arn

Stream-key ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:stream-key/[a-zA-Z0-9-]+`

Required: No

channelArn

Channel ARN for the stream.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: No

tags

Tags attached to the resource. Array of 1-50 maps, each of the form `string:string` (`key:value`). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

value

Stream-key value.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamKeySummary

Summary information about a stream key.

Contents

arn

Stream-key ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:stream-key/[a-zA-Z0-9-]+`

Required: No

channelArn

Channel ARN for the stream.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: No

tags

Tags attached to the resource. Array of 1-50 maps, each of the form `string:string` (`key:value`). See [Best practices and strategies](#) in *Tagging AWS Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS has no service-specific constraints beyond what is documented there.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamSession

Object that captures the Amazon IVS configuration that the customer provisioned, the ingest configurations that the broadcaster used, and the most recent Amazon IVS stream events it encountered.

Contents

channel

The properties of the channel at the time of going live.

Type: [Channel](#) object

Required: No

endTime

Time when the channel went offline. This is an ISO 8601 timestamp; *note that this is returned as a string*. For live streams, this is NULL.

Type: Timestamp

Required: No

ingestConfiguration

The properties of the incoming RTMP stream.

Note: `ingestConfiguration` is deprecated in favor of `ingestConfigurations` but retained to ensure backward compatibility. If multitrack is not enabled, `ingestConfiguration` and `ingestConfigurations` contain the same data, namely information about Track0 (the sole track). If multitrack is enabled, `ingestConfiguration` contains data for only the first track (Track0) and `ingestConfigurations` contains data for all tracks.

Type: [IngestConfiguration](#) object

Required: No

ingestConfigurations

The properties of the incoming RTMP stream. If multitrack is enabled, `ingestConfigurations` contains data for all tracks; otherwise, it contains data only for Track0 (the sole track).

Type: [IngestConfigurations](#) object

Required: No

recordingConfiguration

The properties of recording the live stream.

Type: [RecordingConfiguration](#) object

Required: No

startTime

Time when the channel went live. This is an ISO 8601 timestamp; *note that this is returned as a string*.

Type: Timestamp

Required: No

streamId

Unique identifier for a live or previously live stream in the specified channel.

Type: String

Length Constraints: Fixed length of 26.

Pattern: `st-[a-zA-Z0-9]+`

Required: No

truncatedEvents

List of Amazon IVS events that the stream encountered. The list is sorted by most recent events and contains up to 500 events. For Amazon IVS events, see [Using Amazon EventBridge with Amazon IVS](#).

Type: Array of [StreamEvent](#) objects

Array Members: Minimum number of 0 items. Maximum number of 500 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamSessionSummary

Summary information about a stream session.

Contents

endTime

Time when the channel went offline. This is an ISO 8601 timestamp; *note that this is returned as a string*. For live streams, this is NULL.

Type: Timestamp

Required: No

hasErrorEvent

If `true`, this stream encountered a quota breach or failure.

Type: Boolean

Required: No

startTime

Time when the channel went live. This is an ISO 8601 timestamp; *note that this is returned as a string*.

Type: Timestamp

Required: No

streamId

Unique identifier for a live or previously live stream in the specified channel.

Type: String

Length Constraints: Fixed length of 26.

Pattern: `st-[a-zA-Z0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamSummary

Summary information about a stream.

Contents

channelArn

Channel ARN for the stream.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:aws:ivs:[a-z0-9-]+:[0-9]+:channel/[a-zA-Z0-9-]+`

Required: No

health

The stream's health.

Type: String

Valid Values: HEALTHY | STARVING | UNKNOWN

Required: No

startTime

Time of the stream's start. This is an ISO 8601 timestamp; *note that this is returned as a string.*

Type: Timestamp

Required: No

state

The stream's state. Do not rely on the OFFLINE state, as the API may not return it; instead, a "NotBroadcasting" error will indicate that the stream is not live.

Type: String

Valid Values: LIVE | OFFLINE

Required: No

streamId

Unique identifier for a live or previously live stream in the specified channel.

Type: String

Length Constraints: Fixed length of 26.

Pattern: `st-[a-zA-Z0-9]+`

Required: No

viewerCount

A count of concurrent views of the stream. Typically, a new view appears in `viewerCount` within 15 seconds of when video playback starts and a view is removed from `viewerCount` within 1 minute of when video playback ends. A value of -1 indicates that the request timed out; in this case, retry.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThumbnailConfiguration

An object representing a configuration of thumbnails for recorded video.

Contents

recordingMode

Thumbnail recording mode. Default: INTERVAL.

Type: String

Valid Values: DISABLED | INTERVAL

Required: No

resolution

Indicates the desired resolution of recorded thumbnails. Thumbnails are recorded at the selected resolution if the corresponding rendition is available during the stream; otherwise, they are recorded at source resolution. For more information about resolution values and their corresponding height and width dimensions, see [Auto-Record to Amazon S3](#). Default: Null (source resolution is returned).

Type: String

Valid Values: SD | HD | FULL_HD | LOWEST_RESOLUTION

Required: No

storage

Indicates the format in which thumbnails are recorded. SEQUENTIAL records all generated thumbnails in a serial manner, to the media/thumbnails directory. LATEST saves the latest thumbnail in media/latest_thumbnail/thumb.jpg and overwrites it at the interval specified by `targetIntervalSeconds`. You can enable both SEQUENTIAL and LATEST. Default: SEQUENTIAL.

Type: Array of strings

Valid Values: SEQUENTIAL | LATEST

Required: No

targetIntervalSeconds

The targeted thumbnail-generation interval in seconds. This is configurable (and required) only if `recordingMode` is `INTERVAL`. Default: 60.

Important: For the `BASIC` channel type, or the `STANDARD` channel type with multitrack input, setting a value for `targetIntervalSeconds` does not guarantee that thumbnails are generated at the specified interval. For thumbnails to be generated at the `targetIntervalSeconds` interval, the `IDR/Keyframe` value for the input video must be less than the `targetIntervalSeconds` value. See [Amazon IVS Streaming Configuration](#) for information on setting `IDR/Keyframe` to the recommended value in video-encoder settings.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 60.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

VideoConfiguration

Object specifying a stream's video configuration, as set up by the broadcaster (usually in an encoder). This is part of the [IngestConfigurations](#) object and the deprecated [IngestConfiguration](#) object. It is used for monitoring stream health.

Contents

avcLevel

(Deprecated) Indicates the degree of required decoder performance for a profile. Normally this is set automatically by the encoder. For details, see the H.264 specification. This is populated only when VideoConfiguration is part of the deprecated IngestConfiguration; otherwise, this is an empty string.

Type: String

Required: No

avcProfile

(Deprecated) Indicates to the decoder the requirements for decoding the stream. For definitions of the valid values, see the H.264 specification. This is populated only when VideoConfiguration is part of the deprecated IngestConfiguration; otherwise, this is an empty string.

Type: String

Required: No

codec

Codec used for the video encoding.

Type: String

Required: No

encoder

Software or hardware used to encode the video.

Type: String

Required: No

level

Indicates the degree of required decoder performance for a profile. Normally this is set automatically by the encoder. When an AVC codec is used, this field has the same value as `avcLevel`.

Type: String

Required: No

profile

Indicates to the decoder the requirements for decoding the stream. When an AVC codec is used, this field has the same value as `avcProfile`.

Type: String

Required: No

targetBitrate

The expected ingest bitrate (bits per second). This is configured in the encoder.

Type: Long

Required: No

targetFramerate

The expected ingest framerate. This is configured in the encoder.

Type: Long

Required: No

track

Name of the video track. If multitrack is not enabled, this is `Track0` (the sole track).

Type: String

Required: No

videoHeight

Video-resolution height in pixels.

Type: Long

Required: No

videoWidth

Video-resolution width in pixels.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Channel Types

There are four channel types: STANDARD, ADVANCED_SD, ADVANCED_HD, and BASIC. When you create a channel, the default type is STANDARD.

There are two types of video processing, *transcoding* and *transmuxing*. This is determined by the channel type, whether the channel is configured for multitrack video input, and whether the broadcaster uses a multitrack-enabled client. (Multitrack video is configured with the `multitrackInputConfiguration` API property of the [Channel](#) data type.)

- Video on STANDARD (without multitrack input) and ADVANCED channels is transcoded: multiple qualities are generated from the original input, to automatically give viewers the best experience for their devices and network conditions. Transcoding allows higher playback quality across a range of download speeds. Transcoding is the best option for broadcasters with limited first-mile internet connectivity and/or limited device capabilities (e.g., mobile phones instead of desktop PCs).
- Video on STANDARD (with multitrack input enabled and the broadcaster using a multitrack-enabled client) and BASIC channels is transmuxed: Amazon IVS delivers the original input to viewers. Similar to transcoding, transmuxed multitrack input delivers viewers the best experience for their devices and network conditions.

All transcoded channels have *transcode* presets, which determine which renditions are produced. Think of these as ABR ladders. They allow you to trade off available download bandwidth and video quality, to optimize the viewing experience.

- STANDARD channels have one, default transcode preset.
- ADVANCED channels have two, selectable transcode presets:
 - *Constrained bandwidth delivery* uses a lower bitrate than STANDARD for each quality level. Use it if you have low download bandwidth and/or simple video content (e.g., talking heads).
 - *Higher bandwidth delivery* uses a higher bitrate for each quality level. Use it if you have high download bandwidth and/or complex video content (e.g., flashes and quick scene changes). This is the default.

STANDARD Channels

Single-Track Video Input

STANDARD channels are transcoded. The highest video resolution produced is full HD, 1080p. This is the default channel type.

- **Transcode presets:** There is one, default transcode-preset ladder.
- **Audio:** For renditions 360p and below, audio is transcoded. For other renditions: original audio is passed through.

Input Resolution and Maximum Bitrate	Ladder Details
1080p60 at 8.5 Mbps	<ol style="list-style-type: none"> 1. Video: source passthrough, audio: source passthrough 2. Video: 720p60 at 3.4 Mbps, audio: source passthrough 3. Video: 480p30 at 1.4 Mbps, audio: source passthrough 4. Video: 360p30 at 0.63 Mbps, audio: 64 kbps 5. Video: 160p30 at 0.23 Mbps, audio: 48 kbps
1080p30 at 8.5 Mbps	<ol style="list-style-type: none"> 1. Video: Source passthrough, audio: source passthrough 2. Video: 720p30 at 2.4 Mbps, audio: source passthrough 3. Video: 480p30 at 1.4 Mbps, audio: source passthrough 4. Video: 360p30 at 0.63 Mbps, audio: 64 kbps 5. Video: 160p30 at 0.23 Mbps, audio: 48 kbps
Less than 1080p60 and greater than 720p60, at 8.5 Mbps	<ol style="list-style-type: none"> 1. Video: source passthrough, audio: source passthrough 2. Video: 720p60 at 3.4 Mbps, audio: source passthrough 3. Video: 480p30 at 1.4 Mbps, audio: source passthrough

Input Resolution and Maximum Bitrate	Ladder Details
	<ol style="list-style-type: none"> 4. Video: 360p30 at 0.63 Mbps, audio: 64 kbps 5. Video: 160p30 at 0.23 Mbps, audio: 48 kbps
Less than 1080p30 and greater than 720p30, at 8.5 Mbps	<ol style="list-style-type: none"> 1. Video: source passthrough, audio: source passthrough 2. Video: 720p30 at 2.4 Mbps, audio: source passthrough 3. Video: 480p30 at 1.4 Mbps, audio: source passthrough 4. Video: 360p30 at 0.63 Mbps, audio: 64 kbps 5. Video: 160p30 at 0.23 Mbps, audio: 48 kbps
720p60 at 8.5 Mbps	<ol style="list-style-type: none"> 1. Video: 720p60 at 3.4 Mbps, audio: source passthrough 2. Video: 480p30 at 1.4 Mbps, audio: source passthrough 3. Video: 360p30 at 0.63 Mbps, audio: 64 kbps 4. Video: 160p30 at 0.23 Mbps, audio: 48 kbps
720p30 at 8.5 Mbps	<ol style="list-style-type: none"> 1. Video: 720p30 at 2.4 Mbps, audio: source passthrough 2. Video: 480p30 at 1.4 Mbps, audio: source passthrough 3. Video: 360p30 at 0.63 Mbps, audio: 64 kbps 4. Video: 160p30 at 0.23 Mbps, audio: 48 kbps
Less than 720p30/60 and greater than or equal to 480p30/60, at 8.5 Mbps	<ol style="list-style-type: none"> 1. Video: 480p30 at 1.4 Mbps, audio: source passthrough 2. Video: 360p30 at 0.63 Mbps, audio: 64 kbps 3. Video: 160p30 at 0.23 Mbps, audio: 48 kbps

Multitrack Video Input

STANDARD channels are transmuted when the input is multitrack video. The highest video resolution produced is limited by the `multitrackInputConfiguration.maximumResolution`

property. The specific renditions are dynamic depending on the [broadcaster's system and environmental requirements](#).

For all video renditions, audio is source passthrough.

ADVANCED-HD Channels

ADVANCED-HD channels are transcoded. The highest video resolution produced is HD, 720p.

- **Transcode presets:** There are two, selectable transcode-preset ladders.
- **Audio:** Audio is transcoded.

Input Resolution and Maximum Bitrate	Ladder Details
720p60 up to 1080p60, at 8.5 Mbps	<p>Transcode preset: higher bandwidth delivery (default):</p> <ol style="list-style-type: none"> 1. Video: 720p60 at 3 Mbps, audio: 128 kbps 2. Video: 480p30 at 1.3 Mbps, audio: 128 kbps 3. Video: 360p30 at 0.7 Mbps, audio: 64 kbps 4. Video: 160p30 at 0.27 Mbps, audio: 48 kbps 5. Audio-only at 64 kbps <p>Transcode preset: constrained bandwidth delivery:</p> <ol style="list-style-type: none"> 1. Video: 720p60 at 2.2 Mbps, audio: 128 kbps 2. Video: 480p30 at 0.8 Mbps, audio: 128 kbps 3. Video: 360p30 at 0.4 Mbps, audio: 64 kbps 4. Video: 160p30 at 0.22 Mbps, audio: 48 kbps 5. Audio-only at 64 kbps
720p30 up to 1080p30, at 8.5 Mbps	<p>Transcode preset: higher bandwidth delivery (default):</p> <ol style="list-style-type: none"> 1. Video: 720p30 at 2.3 Mbps, audio: 128 kbps 2. Video: 480p30 at 1.3 Mbps, audio: 128 kbps

Input Resolution and Maximum Bitrate	Ladder Details
	<p>3. Video: 360p30 at 0.7 Mbps, audio: 64 kbps 4. Video: 160p30 at 0.27 Mbps, audio: 48 kbps 5. Audio-only at 64 kbps</p> <p>Transcode preset: constrained bandwidth delivery:</p> <p>1. Video: 720p30 at 1.9 Mbps, audio: 128 kbps 2. Video: 480p30 at 0.8 Mbps, audio: 128 kbps 3. Video: 360p30 at 0.4 Mbps, audio: 64 kbps 4. Video: 160p30 at 0.22 Mbps, audio: 48 kbps 5. Audio-only at 0.08 Mbps</p>
<p>Less than 720p30/60 and greater than 480p30/60, at 8.5 Mbps</p>	<p>Transcode preset: higher bandwidth delivery (default):</p> <p>1. Video: Source transcoded at 2.3 Mbps, audio: 128 kbps 2. Video: 480p30 at 1.3 Mbps, audio: 128 kbps 3. Video: 360p30 at 0.7 Mbps, audio: 64 kbps 4. Video: 160p30 at 0.27 Mbps, audio: 48 kbps 5. Audio-only at 64 kbps</p> <p>Transcode preset: constrained bandwidth delivery:</p> <p>1. Video: Source transcoded at 1.9 Mbps, audio: 128 kbps 2. Video: 480p30 at 0.8 Mbps, audio: 128 kbps 3. Video: 360p30 at 0.4 Mbps, audio: 64 kbps 4. Video: 160p30 at 0.22 Mbps, audio: 48 kbps 5. Audio-only at 64 kbps</p>

Input Resolution and Maximum Bitrate	Ladder Details
480p30/60 at 8.5 Mbps	<p>Transcode preset: higher bandwidth delivery (default):</p> <ol style="list-style-type: none"> 1. Video: 480p30 at 1.3 Mbps, audio: 128 kbps 2. Video: 360p30 at 0.7 Mbps, audio: 64 kbps 3. Video: 160p30 at 0.27 Mbps, audio: 48 kbps 4. Audio-only at 64 kbps <p>Transcode preset: constrained bandwidth delivery:</p> <ol style="list-style-type: none"> 1. Video: 480p30 at 0.8 Mbps, audio: 128 kbps 2. Video: 360p30 at 0.4 Mbps, audio: 64 kbps 3. Video: 160p30 at 0.22 Mbps, audio: 48 kbps 4. Audio-only at 64 kbps

ADVANCED-SD Channels

ADVANCED-SD channels are transcoded. Available renditions are capped at input quality, with no up-conversion.

- **Transcode presets:** There are two, selectable transcode-preset ladders.
- **Audio:** Audio is transcoded.

Input Resolution and Maximum Bitrate	Ladder Details
480p30/60 up to 1080p30/60, at 8.5 Mbps	<p>Transcode preset: higher bandwidth delivery (default):</p> <ol style="list-style-type: none"> 1. Video: 480p30 at 1.3 Mbps, audio: 128 kbps 2. Video: 360p30 at 0.7 Mbps, audio: 64 kbps 3. Video: 160p30 at 0.27 Mbps, audio: 48 kbps 4. Audio-only at 64 kbps

Input Resolution and Maximum Bitrate	Ladder Details
	Transcode preset: constrained bandwidth delivery: <ol style="list-style-type: none"> 1. Video: 480p30 at 0.8 Mbps, audio: 128 kbps 2. Video: 360p30 at 0.4 Mbps, audio: 64 kbps 3. Video: 160p30 at 0.22 Mbps, audio: 48 kbps 4. Audio-only at 64 kbps

BASIC Channels

BASIC channels are transmuxed. A single rendition is produced.

- **Transcode presets:** NA
- **Audio:** Source audio is passed through.

Input Resolution and Maximum Bitrate	Ladder Details
Greater than 480p30/60 and less than or equal to 1080p30/60, at 3.5 Mbps	Source encoding parameters (no ladder)
480p30/60 at 1.5 Mbps	Source encoding parameters (no ladder)

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key/YYYYMMDD/region/service/aws4_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400