



Live API Reference

AWS Elemental MediaPackage V2 Live API



API Version 2022-12-25

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AWS Elemental MediaPackage V2 Live API: Live API Reference

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Welcome

Note

This guide is intended for creating AWS Elemental MediaPackage resources in MediaPackage Version 2 (v2) starting from May 2023. To get started with MediaPackage v2, create your MediaPackage resources. There isn't an automated process to migrate your resources from MediaPackage v1 to MediaPackage v2.

The names of the entities that you use to access this API, like URLs and ARNs, all have the versioning information added, like "v2", to distinguish from the prior version. If you used MediaPackage prior to this release, you can't use the MediaPackage v2 CLI or the MediaPackage v2 API to access any MediaPackage v1 resources.

If you created resources in MediaPackage v1, use video on demand (VOD) workflows, and aren't looking to migrate to MediaPackage v2 yet, see the [MediaPackage v1 Live API Reference](#).

This is the AWS Elemental MediaPackage v2 Live REST API Reference. It describes all the MediaPackage API operations for live content in detail, and provides sample requests, responses, and errors for the supported web services protocols.

We assume that you have the IAM permissions that you need to use MediaPackage via the REST API. We also assume that you are familiar with the features and operations of MediaPackage, as described in the AWS Elemental MediaPackage User Guide.

This document was last published on July 4, 2024.

Actions

The following actions are supported:

- [CreateChannel](#)
- [CreateChannelGroup](#)
- [CreateOriginEndpoint](#)
- [DeleteChannel](#)
- [DeleteChannelGroup](#)
- [DeleteChannelPolicy](#)
- [DeleteOriginEndpoint](#)
- [DeleteOriginEndpointPolicy](#)
- [GetChannel](#)
- [GetChannelGroup](#)
- [GetChannelPolicy](#)
- [GetOriginEndpoint](#)
- [GetOriginEndpointPolicy](#)
- [ListChannelGroups](#)
- [ListChannels](#)
- [ListOriginEndpoints](#)
- [ListTagsForResource](#)
- [PutChannelPolicy](#)
- [PutOriginEndpointPolicy](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateChannel](#)
- [UpdateChannelGroup](#)
- [UpdateOriginEndpoint](#)

CreateChannel

Create a channel to start receiving content streams. The channel represents the input to MediaPackage for incoming live content from an encoder such as AWS Elemental MediaLive. The channel receives content, and after packaging it, outputs it through an origin endpoint to downstream devices (such as video players or CDNs) that request the content. You can create only one channel with each request. We recommend that you spread out channels between channel groups, such as putting redundant channels in the same AWS Region in different channel groups.

Request Syntax

```
POST /channelGroup/ChannelGroupName/channel HTTP/1.1
x-amzn-client-token: ClientToken
Content-type: application/json

{
  "ChannelName": "string",
  "Description": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ClientToken

A unique, case-sensitive token that you provide to ensure the idempotency of the request.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

Request Body

The request accepts the following data in JSON format.

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group. You can't change the name after you create the channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Description

Enter any descriptive text that helps you to identify the channel.

Type: String

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

Required: No

tags

A comma-separated list of tag key:value pairs that you define. For example:

```
"Key1": "Value1",
```

```
"Key2": "Value2"
```

Type: String to string map

Required: No

Response Syntax

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

{
  "Arn": "string",
  "ChannelGroupName": "string",
  "ChannelName": "string",
  "CreatedAt": number,
  "Description": "string",
  "ETag": "string",
  "IngestEndpoints": [
    {
      "Id": "string",
      "Url": "string"
    }
  ],
  "ModifiedAt": number,
  "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.

[Arn](#)

The Amazon Resource Name (ARN) associated with the resource.

Type: String

[ChannelGroupName](#)

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Type: String

CreatedAt

The date and time the channel was created.

Type: Timestamp

Description

The description for your channel.

Type: String

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

ETag

The current Entity Tag (ETag) associated with this resource. The entity tag can be used to safely make concurrent updates to the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

IngestEndpoints

The list of ingest endpoints.

Type: Array of [IngestEndpoint](#) objects

ModifiedAt

The date and time the channel was modified.

Type: Timestamp

Tags

The comma-separated list of tag key:value pairs assigned to the channel.

Type: String to string map

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

CreateChannelGroup

Create a channel group to group your channels and origin endpoints. A channel group is the top-level resource that consists of channels and origin endpoints that are associated with it and that provides predictable URLs for stream delivery. All channels and origin endpoints within the channel group are guaranteed to share the DNS. You can create only one channel group with each request.

Request Syntax

```
POST /channelGroup HTTP/1.1
x-amzn-client-token: ClientToken
Content-type: application/json

{
  "ChannelGroupName": "string",
  "Description": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

ClientToken

A unique, case-sensitive token that you provide to ensure the idempotency of the request.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

Request Body

The request accepts the following data in JSON format.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region. You can't use spaces in the name. You can't change the name after you create the channel group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Description

Enter any descriptive text that helps you to identify the channel group.

Type: String

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

Required: No

tags

A comma-separated list of tag key:value pairs that you define. For example:

```
"Key1": "Value1",
```

```
"Key2": "Value2"
```

Type: String to string map

Required: No

Response Syntax

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

{
```

```
"Arn": "string",
"ChannelGroupName": "string",
"CreatedAt": number,
"Description": "string",
"EgressDomain": "string",
"ETag": "string",
"ModifiedAt": number,
"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.

Arn

The Amazon Resource Name (ARN) associated with the resource.

Type: String

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

CreatedAt

The date and time the channel group was created.

Type: Timestamp

Description

The description for your channel group.

Type: String

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

EgressDomain

The output domain where the source stream should be sent. Integrate the egress domain with a downstream CDN (such as Amazon CloudFront) or playback device.

Type: String

ETag

The current Entity Tag (ETag) associated with this resource. The entity tag can be used to safely make concurrent updates to the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

ModifiedAt

The date and time the channel group was modified.

Type: Timestamp

Tags

The comma-separated list of tag key:value pairs assigned to the channel group.

Type: String to string map

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

CreateOriginEndpoint

The endpoint is attached to a channel, and represents the output of the live content. You can associate multiple endpoints to a single channel. Each endpoint gives players and downstream CDNs (such as Amazon CloudFront) access to the content for playback. Content can't be served from a channel until it has an endpoint. You can create only one endpoint with each request.

Request Syntax

```
POST /channelGroup/ChannelGroupName/channel/ChannelName/originEndpoint HTTP/1.1
```

```
x-amzn-client-token: ClientToken
```

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

```
{
  "ContainerType": "string",
  "DashManifests": [
    {
      "DrmSignaling": "string",
      "FilterConfiguration": {
        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
      },
      "ManifestName": "string",
      "ManifestWindowSeconds": number,
      "MinBufferTimeSeconds": number,
      "MinUpdatePeriodSeconds": number,
      "PeriodTriggers": [ "string" ],
      "ScteDash": {
        "AdMarkerDash": "string"
      },
      "SegmentTemplateFormat": "string",
      "SuggestedPresentationDelaySeconds": number,
      "UtcTiming": {
        "TimingMode": "string",
        "TimingSource": "string"
      }
    }
  ],
  "Description": "string",
  "HlsManifests": [
```

```

{
  "ChildManifestName": "string",
  "FilterConfiguration": {
    "End": number,
    "ManifestFilter": "string",
    "Start": number,
    "TimeDelaySeconds": number
  },
  "ManifestName": "string",
  "ManifestWindowSeconds": number,
  "ProgramDateTimeIntervalSeconds": number,
  "ScteHls": {
    "AdMarkerHls": "string"
  }
}
],
"LowLatencyHlsManifests": [
{
  "ChildManifestName": "string",
  "FilterConfiguration": {
    "End": number,
    "ManifestFilter": "string",
    "Start": number,
    "TimeDelaySeconds": number
  },
  "ManifestName": "string",
  "ManifestWindowSeconds": number,
  "ProgramDateTimeIntervalSeconds": number,
  "ScteHls": {
    "AdMarkerHls": "string"
  }
}
],
"OriginEndpointName": "string",
"Segment": {
  "Encryption": {
    "ConstantInitializationVector": "string",
    "EncryptionMethod": {
      "CmafEncryptionMethod": "string",
      "TsEncryptionMethod": "string"
    },
  },
  "KeyRotationIntervalSeconds": number,
  "SpekeKeyProvider": {
    "DrmSystems": [ "string" ],

```

```
    "EncryptionContractConfiguration": {
      "PresetSpeke20Audio": "string",
      "PresetSpeke20Video": "string"
    },
    "ResourceId": "string",
    "RoleArn": "string",
    "Url": "string"
  }
},
"IncludeIframeOnlyStreams": boolean,
"Scte": {
  "ScteFilter": [ "string" ]
},
"SegmentDurationSeconds": number,
"SegmentName": "string",
"TsIncludeDvbSubtitles": boolean,
"TsUseAudioRenditionGroup": boolean
},
"StartoverWindowSeconds": number,
"Tags": {
  "string" : "string"
}
}
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ClientToken

A unique, case-sensitive token that you provide to ensure the idempotency of the request.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [\\S]+

Request Body

The request accepts the following data in JSON format.

ContainerType

The type of container to attach to this origin endpoint. A container type is a file format that encapsulates one or more media streams, such as audio and video, into a single file. You can't change the container type after you create the endpoint.

Type: String

Valid Values: TS | CMAF

Required: Yes

DashManifests

A DASH manifest configuration.

Type: Array of [CreateDashManifestConfiguration](#) objects

Required: No

Description

Enter any descriptive text that helps you to identify the origin endpoint.

Type: String

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

Required: No

HlsManifests

An HTTP live streaming (HLS) manifest configuration.

Type: Array of [CreateHlsManifestConfiguration](#) objects

Required: No

LowLatencyHlsManifests

A low-latency HLS manifest configuration.

Type: Array of [CreateLowLatencyHlsManifestConfiguration](#) objects

Required: No

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel. You can't use spaces in the name. You can't change the name after you create the endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Segment

The segment configuration, including the segment name, duration, and other configuration values.

Type: [Segment](#) object

Required: No

StartoverWindowSeconds

The size of the window (in seconds) to create a window of the live stream that's available for on-demand viewing. Viewers can start-over or catch-up on content that falls within the window. The maximum startover window is 1,209,600 seconds (14 days).

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 1209600.

Required: No

Tags

A comma-separated list of tag key:value pairs that you define. For example:

```
"Key1": "Value1",
```

```
"Key2": "Value2"
```

Type: String to string map

Required: No

Response Syntax

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

{
  "Arn": "string",
  "ChannelGroupName": "string",
  "ChannelName": "string",
  "ContainerType": "string",
  "CreatedAt": number,
  "DashManifests": [
    {
      "DrmSignaling": "string",
      "FilterConfiguration": {
        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
      },
      "ManifestName": "string",
      "ManifestWindowSeconds": number,
      "MinBufferTimeSeconds": number,
      "MinUpdatePeriodSeconds": number,
      "PeriodTriggers": [ "string ],
      "ScteDash": {
        "AdMarkerDash": "string"
      }
    },
  ],
}
```

```
    "SegmentTemplateFormat": "string",
    "SuggestedPresentationDelaySeconds": number,
    "Url": "string",
    "UtcTiming": {
      "TimingMode": "string",
      "TimingSource": "string"
    }
  ],
  "Description": "string",
  "ETag": "string",
  "HlsManifests": [
    {
      "ChildManifestName": "string",
      "FilterConfiguration": {
        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
      },
      "ManifestName": "string",
      "ManifestWindowSeconds": number,
      "ProgramDateTimeIntervalSeconds": number,
      "ScteHls": {
        "AdMarkerHls": "string"
      },
      "Url": "string"
    }
  ],
  "LowLatencyHlsManifests": [
    {
      "ChildManifestName": "string",
      "FilterConfiguration": {
        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
      },
      "ManifestName": "string",
      "ManifestWindowSeconds": number,
      "ProgramDateTimeIntervalSeconds": number,
      "ScteHls": {
        "AdMarkerHls": "string"
      },
    }
  ]
}
```

```

    "Url": "string"
  }
],
"ModifiedAt": number,
"OriginEndpointName": "string",
"Segment": {
  "Encryption": {
    "ConstantInitializationVector": "string",
    "EncryptionMethod": {
      "CmafEncryptionMethod": "string",
      "TsEncryptionMethod": "string"
    },
  },
  "KeyRotationIntervalSeconds": number,
  "SpekeKeyProvider": {
    "DrmSystems": [ "string" ],
    "EncryptionContractConfiguration": {
      "PresetSpeke20Audio": "string",
      "PresetSpeke20Video": "string"
    },
    "ResourceId": "string",
    "RoleArn": "string",
    "Url": "string"
  }
},
"IncludeIframeOnlyStreams": boolean,
"Scte": {
  "ScteFilter": [ "string" ]
},
"SegmentDurationSeconds": number,
"SegmentName": "string",
"TsIncludeDvbSubtitles": boolean,
"TsUseAudioRenditionGroup": boolean
},
"StartoverWindowSeconds": number,
"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.

Arn

The Amazon Resource Name (ARN) associated with the resource.

Type: String

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

ContainerType

The type of container attached to this origin endpoint.

Type: String

Valid Values: TS | CMAF

CreatedAt

The date and time the origin endpoint was created.

Type: Timestamp

DashManifests

A DASH manifest configuration.

Type: Array of [GetDashManifestConfiguration](#) objects

Description

The description for your origin endpoint.

Type: String

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

ETag

The current Entity Tag (ETag) associated with this resource. The entity tag can be used to safely make concurrent updates to the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

HlsManifests

An HTTP live streaming (HLS) manifest configuration.

Type: Array of [GetHlsManifestConfiguration](#) objects

LowLatencyHlsManifests

A low-latency HLS manifest configuration.

Type: Array of [GetLowLatencyHlsManifestConfiguration](#) objects

ModifiedAt

The date and time the origin endpoint was modified.

Type: Timestamp

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Segment

The segment configuration, including the segment name, duration, and other configuration values.

Type: [Segment](#) object

StartoverWindowSeconds

The size of the window (in seconds) to create a window of the live stream that's available for on-demand viewing. Viewers can start-over or catch-up on content that falls within the window.

Type: Integer

Tags

The comma-separated list of tag key:value pairs assigned to the origin endpoint.

Type: String to string map

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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

Delete a channel to stop AWS Elemental MediaPackage from receiving further content. You must delete the channel's origin endpoints before you can delete the channel.

Request Syntax

```
DELETE /channelGroup/ChannelGroupName/channel/ChannelName/ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

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](#).

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

DeleteChannelGroup

Delete a channel group. You must delete the channel group's channels and origin endpoints before you can delete the channel group. If you delete a channel group, you'll lose access to the egress domain and will have to create a new channel group to replace it.

Request Syntax

```
DELETE /channelGroup/ChannelGroupName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

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](#).

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management in the IAM User Guide](#).

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

DeleteChannelPolicy

Delete a channel policy.

Request Syntax

```
DELETE /channelGroup/ChannelGroupName/channel/ChannelName/policy HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

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](#).

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

DeleteOriginEndpoint

Origin endpoints can serve content until they're deleted. Delete the endpoint if it should no longer respond to playback requests. You must delete all endpoints from a channel before you can delete the channel.

Request Syntax

```
DELETE /channelGroup/ChannelGroupName/channel/ChannelName/
originEndpoint/OriginEndpointName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

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](#).

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management in the IAM User Guide](#).

HTTP Status Code: 403

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

DeleteOriginEndpointPolicy

Delete an origin endpoint policy.

Request Syntax

```
DELETE /channelGroup/ChannelGroupName/channel/ChannelName/
originEndpoint/OriginEndpointName/policy HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

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](#).

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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

Retrieves the specified channel that's configured in AWS Elemental MediaPackage, including the origin endpoints that are associated with it.

Request Syntax

```
GET /channelGroup/ChannelGroupName/channel/ChannelName/ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [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
```

```
{
  "Arn": "string",
  "ChannelGroupName": "string",
  "ChannelName": "string",
  "CreatedAt": number,
  "Description": "string",
  "ETag": "string",
  "IngestEndpoints": [
    {
      "Id": "string",
      "Url": "string"
    }
  ],
  "ModifiedAt": number,
  "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.

Arn

The Amazon Resource Name (ARN) associated with the resource.

Type: String

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Type: String

CreatedAt

The date and time the channel was created.

Type: Timestamp

Description

The description for your channel.

Type: String

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

ETag

The current Entity Tag (ETag) associated with this resource. The entity tag can be used to safely make concurrent updates to the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

IngestEndpoints

The list of ingest endpoints.

Type: Array of [IngestEndpoint](#) objects

ModifiedAt

The date and time the channel was modified.

Type: Timestamp

Tags

The comma-separated list of tag key:value pairs assigned to the channel.

Type: String to string map

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management in the IAM User Guide](#).

HTTP Status Code: 403

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

GetChannelGroup

Retrieves the specified channel group that's configured in AWS Elemental MediaPackage, including the channels and origin endpoints that are associated with it.

Request Syntax

```
GET /channelGroup/ChannelGroupName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [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
```

```
{  
  "Arn": "string",  
  "ChannelGroupName": "string",  
  "CreatedAt": number,  
  "Description": "string",  
  "EgressDomain": "string",  
  "ETag": "string",
```

```
"ModifiedAt": number,
"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.

Arn

The Amazon Resource Name (ARN) associated with the resource.

Type: String

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

CreatedAt

The date and time the channel group was created.

Type: Timestamp

Description

The description for your channel group.

Type: String

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

EgressDomain

The output domain where the source stream should be sent. Integrate the domain with a downstream CDN (such as Amazon CloudFront) or playback device.

Type: String

ETag

The current Entity Tag (ETag) associated with this resource. The entity tag can be used to safely make concurrent updates to the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

ModifiedAt

The date and time the channel group was modified.

Type: Timestamp

tags

The comma-separated list of tag key:value pairs assigned to the channel group.

Type: String to string map

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

GetChannelPolicy

Retrieves the specified channel policy that's configured in AWS Elemental MediaPackage. With policies, you can specify who has access to AWS resources and what actions they can perform on those resources.

Request Syntax

```
GET /channelGroup/ChannelGroupName/channel/ChannelName/policy HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [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

{
  "ChannelGroupName": "string",
  "ChannelName": "string",
  "Policy": "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.

[ChannelGroupName](#)

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

[ChannelName](#)

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Type: String

[Policy](#)

The policy assigned to the channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 6144.

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management in the IAM User Guide](#).

HTTP Status Code: 403

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

GetOriginEndpoint

Retrieves the specified origin endpoint that's configured in AWS Elemental MediaPackage to obtain its playback URL and to view the packaging settings that it's currently using.

Request Syntax

```
GET /channelGroup/ChannelGroupName/channel/ChannelName/
originEndpoint/OriginEndpointName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [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

{
  "Arn": "string",
  "ChannelGroupName": "string",
  "ChannelName": "string",
  "ContainerType": "string",
  "CreatedAt": number,
  "DashManifests": [
    {
      "DrmSignaling": "string",
      "FilterConfiguration": {
        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
      },
      "ManifestName": "string",
      "ManifestWindowSeconds": number,
      "MinBufferTimeSeconds": number,
      "MinUpdatePeriodSeconds": number,
      "PeriodTriggers": [ "string" ],
      "ScteDash": {
        "AdMarkerDash": "string"
      },
      "SegmentTemplateFormat": "string",
      "SuggestedPresentationDelaySeconds": number,
      "Url": "string",
      "UtcTiming": {
        "TimingMode": "string",
        "TimingSource": "string"
      }
    }
  ]
}
```

```
],
  "Description": "string",
  "ETag": "string",
  "HlsManifests": [
    {
      "ChildManifestName": "string",
      "FilterConfiguration": {
        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
      },
      "ManifestName": "string",
      "ManifestWindowSeconds": number,
      "ProgramDateTimeIntervalSeconds": number,
      "ScteHls": {
        "AdMarkerHls": "string"
      },
      "Url": "string"
    }
  ],
  "LowLatencyHlsManifests": [
    {
      "ChildManifestName": "string",
      "FilterConfiguration": {
        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
      },
      "ManifestName": "string",
      "ManifestWindowSeconds": number,
      "ProgramDateTimeIntervalSeconds": number,
      "ScteHls": {
        "AdMarkerHls": "string"
      },
      "Url": "string"
    }
  ],
  "ModifiedAt": number,
  "OriginEndpointName": "string",
  "Segment": {
    "Encryption": {
      "ConstantInitializationVector": "string",
```

```

    "EncryptionMethod": {
      "CmafEncryptionMethod": "string",
      "TsEncryptionMethod": "string"
    },
    "KeyRotationIntervalSeconds": number,
    "SpekeKeyProvider": {
      "DrmSystems": [ "string" ],
      "EncryptionContractConfiguration": {
        "PresetSpeke20Audio": "string",
        "PresetSpeke20Video": "string"
      },
      "ResourceId": "string",
      "RoleArn": "string",
      "Url": "string"
    }
  },
  "IncludeIframeOnlyStreams": boolean,
  "Scte": {
    "ScteFilter": [ "string" ]
  },
  "SegmentDurationSeconds": number,
  "SegmentName": "string",
  "TsIncludeDvbSubtitles": boolean,
  "TsUseAudioRenditionGroup": boolean
},
"StartoverWindowSeconds": number,
"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.

Arn

The Amazon Resource Name (ARN) associated with the resource.

Type: String

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

ContainerType

The type of container attached to this origin endpoint.

Type: String

Valid Values: TS | CMAF

CreatedAt

The date and time the origin endpoint was created.

Type: Timestamp

DashManifests

A DASH manifest configuration.

Type: Array of [GetDashManifestConfiguration](#) objects

Description

The description for your origin endpoint.

Type: String

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

ETag

The current Entity Tag (ETag) associated with this resource. The entity tag can be used to safely make concurrent updates to the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

HlsManifests

An HTTP live streaming (HLS) manifest configuration.

Type: Array of [GetHlsManifestConfiguration](#) objects

LowLatencyHlsManifests

A low-latency HLS manifest configuration.

Type: Array of [GetLowLatencyHlsManifestConfiguration](#) objects

ModifiedAt

The date and time the origin endpoint was modified.

Type: Timestamp

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Segment

The segment configuration, including the segment name, duration, and other configuration values.

Type: [Segment](#) object

[StartoverWindowSeconds](#)

The size of the window (in seconds) to create a window of the live stream that's available for on-demand viewing. Viewers can start-over or catch-up on content that falls within the window.

Type: Integer

[Tags](#)

The comma-separated list of tag key:value pairs assigned to the origin endpoint.

Type: String to string map

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

GetOriginEndpointPolicy

Retrieves the specified origin endpoint policy that's configured in AWS Elemental MediaPackage.

Request Syntax

```
GET /channelGroup/ChannelGroupName/channel/ChannelName/
originEndpoint/OriginEndpointName/policy HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [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

{
  "ChannelGroupName": "string",
  "ChannelName": "string",
  "OriginEndpointName": "string",
  "Policy": "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.

[ChannelGroupName](#)

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

[ChannelName](#)

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Policy

The policy assigned to the origin endpoint.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 6144.

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

ListChannelGroups

Retrieves all channel groups that are configured in AWS Elemental MediaPackage, including the channels and origin endpoints that are associated with it.

Request Syntax

```
GET /channelGroup?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[MaxResults](#)

The maximum number of results to return in the response.

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

[NextToken](#)

The pagination token from the GET list request. Use the token to fetch the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Items": [
    {
      "Arn": "string",
      "ChannelGroupName": "string",
      "CreatedAt": number,
      "Description": "string",
      "ModifiedAt": number
    }
  ]
}
```

```
  ],  
  "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.

Items

The objects being returned.

Type: Array of [ChannelGroupListConfiguration](#) objects

NextToken

The pagination token from the GET list request. Use the token to fetch the next page of results.

Type: String

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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

Retrieves all channels in a specific channel group that are configured in AWS Elemental MediaPackage, including the origin endpoints that are associated with it.

Request Syntax

```
GET /channelGroup/ChannelGroupName/channel?maxResults=MaxResults&nextToken=NextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

MaxResults

The maximum number of results to return in the response.

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

NextToken

The pagination token from the GET list request. Use the token to fetch the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```



```
Content-type: application/json

{
  "Items": [
    {
      "Arn": "string",
      "ChannelGroupName": "string",
      "ChannelName": "string",
      "CreatedAt": number,
      "Description": "string",
      "ModifiedAt": number
    }
  ],
  "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.

Items

The objects being returned.

Type: Array of [ChannellistConfiguration](#) objects

NextToken

The pagination token from the GET list request.

Type: String

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

ListOriginEndpoints

Retrieves all origin endpoints in a specific channel that are configured in AWS Elemental MediaPackage.

Request Syntax

```
GET /channelGroup/ChannelGroupName/channel/ChannelName/originEndpoint?  
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

MaxResults

The maximum number of results to return in the response.

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

NextToken

The pagination token from the GET list request. Use the token to fetch the next page of results.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Items": [
    {
      "Arn": "string",
      "ChannelGroupName": "string",
      "ChannelName": "string",
      "ContainerType": "string",
      "CreatedAt": number,
      "DashManifests": [
        {
          "ManifestName": "string",
          "Url": "string"
        }
      ],
      "Description": "string",
      "HlsManifests": [
        {
          "ChildManifestName": "string",
          "ManifestName": "string",
          "Url": "string"
        }
      ],
      "LowLatencyHlsManifests": [
        {
          "ChildManifestName": "string",
          "ManifestName": "string",
          "Url": "string"
        }
      ],
    }
  ],
}
```

```
    "ModifiedAt": number,  
    "OriginEndpointName": "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.

Items

The objects being returned.

Type: Array of [OriginEndpointListConfiguration](#) objects

NextToken

The pagination token from the GET list request. Use the token to fetch the next page of results.

Type: String

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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

Lists the tags assigned to a resource.

Request Syntax

```
GET /tags/ResourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The ARN of the CloudWatch resource that you want to view tags for.

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

Contains a map of the key-value pairs for the resource tag or tags assigned to the resource.

Type: String to string map

Errors

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

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

PutChannelPolicy

Attaches an IAM policy to the specified channel. With policies, you can specify who has access to AWS resources and what actions they can perform on those resources. You can attach only one policy with each request.

Request Syntax

```
PUT /channelGroup/ChannelGroupName/channel/ChannelName/policy HTTP/1.1
Content-type: application/json

{
  "Policy": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

Policy

The policy to attach to the specified channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 6144.

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

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

PutOriginEndpointPolicy

Attaches an IAM policy to the specified origin endpoint. You can attach only one policy with each request.

Request Syntax

```
POST /channelGroup/ChannelGroupName/channel/ChannelName/
originEndpoint/OriginEndpointName/policy HTTP/1.1
Content-type: application/json

{
  "Policy": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

Policy

The policy to attach to the specified origin endpoint.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 6144.

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

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management in the IAM User Guide](#).

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerError

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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

Assigns one or more tags (key-value pairs) to the specified MediaPackage resource.

Tags can help you organize and categorize your resources. You can also use them to scope user permissions, by granting a user permission to access or change only resources with certain tag values. You can use the TagResource operation with a resource that already has tags. If you specify a new tag key for the resource, this tag is appended to the list of tags associated with the resource. If you specify a tag key that is already associated with the resource, the new tag value that you specify replaces the previous value for that tag.

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

The ARN of the MediaPackage resource that you're adding tags to.

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

Contains a map of the key-value pairs for the resource tag or tags assigned to the resource.

Type: String to string map

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](#).

ValidationException

The input failed to meet the constraints specified by the AWS service.

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 one or more tags from the specified resource.

Request Syntax

```
DELETE /tags/ResourceArn?tagKeys=TagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The ARN of the MediaPackage resource that you're removing tags from.

Required: Yes

TagKeys

The list of tag keys to remove from the resource.

Required: Yes

Request Body

The request does not have a request body.

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](#).

ValidationException

The input failed to meet the constraints specified by the AWS service.

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

Update the specified channel. You can edit if MediaPackage sends ingest or egress access logs to the CloudWatch log group, if content will be encrypted, the description on a channel, and your channel's policy settings. You can't edit the name of the channel or CloudFront distribution details.

Any edits you make that impact the video output may not be reflected for a few minutes.

Request Syntax

```
PUT /channelGroup/ChannelGroupName/channel/ChannelName/ HTTP/1.1
x-amzn-update-if-match: ETag
Content-type: application/json

{
  "Description": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ETag

The expected current Entity Tag (ETag) for the resource. If the specified ETag does not match the resource's current entity tag, the update request will be rejected.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

Request Body

The request accepts the following data in JSON format.

Description

Any descriptive information that you want to add to the channel for future identification purposes.

Type: String

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

Required: No

Response Syntax

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

```
{
  "Arn": "string",
  "ChannelGroupName": "string",
  "ChannelName": "string",
  "CreatedAt": number,
  "Description": "string",
  "ETag": "string",
  "IngestEndpoints": [
    {
      "Id": "string",
      "Url": "string"
    }
  ]
}
```

```
    }  
  ],  
  "ModifiedAt": number,  
  "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.

Arn

The Amazon Resource Name (ARN) associated with the resource.

Type: String

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Type: String

CreatedAt

The date and time the channel was created.

Type: Timestamp

Description

The description for your channel.

Type: String

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

ETag

The current Entity Tag (ETag) associated with this resource. The entity tag can be used to safely make concurrent updates to the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

IngestEndpoints

The list of ingest endpoints.

Type: Array of [IngestEndpoint](#) objects

ModifiedAt

The date and time the channel was modified.

Type: Timestamp

tags

The comma-separated list of tag key:value pairs assigned to the channel.

Type: String to string map

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

UpdateChannelGroup

Update the specified channel group. You can edit the description on a channel group for easier identification later from the AWS Elemental MediaPackage console. You can't edit the name of the channel group.

Any edits you make that impact the video output may not be reflected for a few minutes.

Request Syntax

```
PUT /channelGroup/ChannelGroupName HTTP/1.1
x-amzn-update-if-match: ETag
Content-type: application/json

{
  "Description": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ETag

The expected current Entity Tag (ETag) for the resource. If the specified ETag does not match the resource's current entity tag, the update request will be rejected.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [\\S]+

Request Body

The request accepts the following data in JSON format.

Description

Any descriptive information that you want to add to the channel group for future identification purposes.

Type: String

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

Required: No

Response Syntax

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

{
  "Arn": "string",
  "ChannelGroupName": "string",
  "CreatedAt": number,
  "Description": "string",
  "EgressDomain": "string",
  "ETag": "string",
  "ModifiedAt": number,
  "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.

Arn

The Amazon Resource Name (ARN) associated with the resource.

Type: String

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

CreatedAt

The date and time the channel group was created.

Type: Timestamp

Description

The description for your channel group.

Type: String

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

EgressDomain

The output domain where the source stream is sent. Integrate the domain with a downstream CDN (such as Amazon CloudFront) or playback device.

Type: String

ETag

The current Entity Tag (ETag) associated with this resource. The entity tag can be used to safely make concurrent updates to the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

ModifiedAt

The date and time the channel group was modified.

Type: Timestamp

tags

The comma-separated list of tag key:value pairs assigned to the channel group.

Type: String to string map

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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](#)

UpdateOriginEndpoint

Update the specified origin endpoint. Edit the packaging preferences on an endpoint to optimize the viewing experience. You can't edit the name of the endpoint.

Any edits you make that impact the video output may not be reflected for a few minutes.

Request Syntax

```
PUT /channelGroup/ChannelGroupName/channel/ChannelName/
originEndpoint/OriginEndpointName HTTP/1.1
x-amzn-update-if-match: ETag
Content-type: application/json

{
  "ContainerType": "string",
  "DashManifests": [
    {
      "DrmSignaling": "string",
      "FilterConfiguration": {
        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
      },
      "ManifestName": "string",
      "ManifestWindowSeconds": number,
      "MinBufferTimeSeconds": number,
      "MinUpdatePeriodSeconds": number,
      "PeriodTriggers": [ "string" ],
      "ScteDash": {
        "AdMarkerDash": "string"
      },
      "SegmentTemplateFormat": "string",
      "SuggestedPresentationDelaySeconds": number,
      "UtcTiming": {
        "TimingMode": "string",
        "TimingSource": "string"
      }
    }
  ],
  "Description": "string",
  "HlsManifests": [
```

```

{
  "ChildManifestName": "string",
  "FilterConfiguration": {
    "End": number,
    "ManifestFilter": "string",
    "Start": number,
    "TimeDelaySeconds": number
  },
  "ManifestName": "string",
  "ManifestWindowSeconds": number,
  "ProgramDateTimeIntervalSeconds": number,
  "ScteHls": {
    "AdMarkerHls": "string"
  }
}
],
"LowLatencyHlsManifests": [
{
  "ChildManifestName": "string",
  "FilterConfiguration": {
    "End": number,
    "ManifestFilter": "string",
    "Start": number,
    "TimeDelaySeconds": number
  },
  "ManifestName": "string",
  "ManifestWindowSeconds": number,
  "ProgramDateTimeIntervalSeconds": number,
  "ScteHls": {
    "AdMarkerHls": "string"
  }
}
],
"Segment": {
  "Encryption": {
    "ConstantInitializationVector": "string",
    "EncryptionMethod": {
      "CmafEncryptionMethod": "string",
      "TsEncryptionMethod": "string"
    },
  },
  "KeyRotationIntervalSeconds": number,
  "SpekeKeyProvider": {
    "DrmSystems": [ "string" ],
    "EncryptionContractConfiguration": {

```



```
        "PresetSpeke20Audio": "string",
        "PresetSpeke20Video": "string"
    },
    "ResourceId": "string",
    "RoleArn": "string",
    "Url": "string"
}
},
"IncludeIframeOnlyStreams": boolean,
"Scte": {
    "ScteFilter": [ "string" ]
},
"SegmentDurationSeconds": number,
"SegmentName": "string",
"TsIncludeDvbSubtitles": boolean,
"TsUseAudioRenditionGroup": boolean
},
"StartoverWindowSeconds": number
}
```

URI Request Parameters

The request uses the following URI parameters.

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ETag

The expected current Entity Tag (ETag) for the resource. If the specified ETag does not match the resource's current entity tag, the update request will be rejected.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Request Body

The request accepts the following data in JSON format.

ContainerType

The type of container attached to this origin endpoint. A container type is a file format that encapsulates one or more media streams, such as audio and video, into a single file.

Type: String

Valid Values: TS | CMAF

Required: Yes

DashManifests

A DASH manifest configuration.

Type: Array of [CreateDashManifestConfiguration](#) objects

Required: No

Description

Any descriptive information that you want to add to the origin endpoint for future identification purposes.

Type: String

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

Required: No

HlsManifests

An HTTP live streaming (HLS) manifest configuration.

Type: Array of [CreateHlsManifestConfiguration](#) objects

Required: No

LowLatencyHlsManifests

A low-latency HLS manifest configuration.

Type: Array of [CreateLowLatencyHlsManifestConfiguration](#) objects

Required: No

Segment

The segment configuration, including the segment name, duration, and other configuration values.

Type: [Segment](#) object

Required: No

StartoverWindowSeconds

The size of the window (in seconds) to create a window of the live stream that's available for on-demand viewing. Viewers can start-over or catch-up on content that falls within the window. The maximum startover window is 1,209,600 seconds (14 days).

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 1209600.

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "Arn": "string",
  "ChannelGroupName": "string",
  "ChannelName": "string",
  "ContainerType": "string",
  "CreatedAt": number,
  "DashManifests": [
    {
      "DrmSignaling": "string",
      "FilterConfiguration": {
        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
      },
      "ManifestName": "string",
      "ManifestWindowSeconds": number,
      "MinBufferTimeSeconds": number,
      "MinUpdatePeriodSeconds": number,
      "PeriodTriggers": [ "string" ],
      "ScteDash": {
        "AdMarkerDash": "string"
      },
      "SegmentTemplateFormat": "string",
      "SuggestedPresentationDelaySeconds": number,
      "Url": "string",
      "UtcTiming": {
        "TimingMode": "string",
        "TimingSource": "string"
      }
    }
  ],
  "Description": "string",
  "ETag": "string",
  "HlsManifests": [
    {
      "ChildManifestName": "string",
      "FilterConfiguration": {
```

```

        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
    },
    "ManifestName": "string",
    "ManifestWindowSeconds": number,
    "ProgramDateTimeIntervalSeconds": number,
    "ScteHls": {
        "AdMarkerHls": "string"
    },
    "Url": "string"
}
],
"LowLatencyHlsManifests": [
{
    "ChildManifestName": "string",
    "FilterConfiguration": {
        "End": number,
        "ManifestFilter": "string",
        "Start": number,
        "TimeDelaySeconds": number
    },
    "ManifestName": "string",
    "ManifestWindowSeconds": number,
    "ProgramDateTimeIntervalSeconds": number,
    "ScteHls": {
        "AdMarkerHls": "string"
    },
    "Url": "string"
}
],
"ModifiedAt": number,
"OriginEndpointName": "string",
"Segment": {
    "Encryption": {
        "ConstantInitializationVector": "string",
        "EncryptionMethod": {
            "CmafEncryptionMethod": "string",
            "TsEncryptionMethod": "string"
        },
    },
    "KeyRotationIntervalSeconds": number,
    "SpekeKeyProvider": {
        "DrmSystems": [ "string" ],

```

```

    "EncryptionContractConfiguration": {
      "PresetSpeke20Audio": "string",
      "PresetSpeke20Video": "string"
    },
    "ResourceId": "string",
    "RoleArn": "string",
    "Url": "string"
  }
},
"IncludeIframeOnlyStreams": boolean,
"Scte": {
  "ScteFilter": [ "string" ]
},
"SegmentDurationSeconds": number,
"SegmentName": "string",
"TsIncludeDvbSubtitles": boolean,
"TsUseAudioRenditionGroup": boolean
},
"StartoverWindowSeconds": number,
"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.

Arn

The ARN associated with the resource.

Type: String

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

ContainerType

The type of container attached to this origin endpoint.

Type: String

Valid Values: TS | CMAF

CreatedAt

The date and time the origin endpoint was created.

Type: Timestamp

DashManifests

A DASH manifest configuration.

Type: Array of [GetDashManifestConfiguration](#) objects

Description

The description of the origin endpoint.

Type: String

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

ETag

The current Entity Tag (ETag) associated with this resource. The entity tag can be used to safely make concurrent updates to the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\S]+`

HlsManifests

An HTTP live streaming (HLS) manifest configuration.

Type: Array of [GetHlsManifestConfiguration](#) objects

LowLatencyHlsManifests

A low-latency HLS manifest configuration.

Type: Array of [GetLowLatencyHlsManifestConfiguration](#) objects

ModifiedAt

The date and time the origin endpoint was modified.

Type: Timestamp

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Segment

The segment configuration, including the segment name, duration, and other configuration values.

Type: [Segment](#) object

StartoverWindowSeconds

The size of the window (in seconds) to create a window of the live stream that's available for on-demand viewing. Viewers can start-over or catch-up on content that falls within the window.

Type: Integer

tags

The comma-separated list of tag key:value pairs assigned to the origin endpoint.

Type: String to string map

Errors

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

AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see Access Management in the IAM User Guide.

HTTP Status Code: 403

ConflictException

Updating or deleting this resource can cause an inconsistent state.

HTTP Status Code: 409

InternalServerErrorException

Indicates that an error from the service occurred while trying to process a request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource doesn't exist.

HTTP Status Code: 404

ServiceQuotaExceededException

The request would cause a service quota to be exceeded.

HTTP Status Code: 402

ThrottlingException

The request throughput limit was exceeded.

HTTP Status Code: 429

ValidationException

The input failed to meet the constraints specified by the AWS service.

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 AWS Elemental MediaPackage v2 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:

- [ChannelGroupListConfiguration](#)
- [ChannelListConfiguration](#)
- [CreateDashManifestConfiguration](#)
- [CreateHlsManifestConfiguration](#)
- [CreateLowLatencyHlsManifestConfiguration](#)
- [DashUtcTiming](#)
- [Encryption](#)
- [EncryptionContractConfiguration](#)
- [EncryptionMethod](#)
- [FilterConfiguration](#)
- [GetDashManifestConfiguration](#)
- [GetHlsManifestConfiguration](#)
- [GetLowLatencyHlsManifestConfiguration](#)
- [IngestEndpoint](#)
- [ListDashManifestConfiguration](#)
- [ListHlsManifestConfiguration](#)
- [ListLowLatencyHlsManifestConfiguration](#)
- [OriginEndpointListConfiguration](#)
- [Scte](#)
- [ScteDash](#)

- [ScteHls](#)
- [Segment](#)
- [SpekeKeyProvider](#)

ChannelGroupListConfiguration

The configuration of the channel group.

Contents

Arn

The Amazon Resource Name (ARN) associated with the resource.

Type: String

Required: Yes

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

Required: Yes

CreatedAt

The date and time the channel group was created.

Type: Timestamp

Required: Yes

ModifiedAt

The date and time the channel group was modified.

Type: Timestamp

Required: Yes

Description

Any descriptive information that you want to add to the channel group for future identification purposes.

Type: String

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

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](#)

ChannelListConfiguration

The configuration of the channel.

Contents

Arn

The Amazon Resource Name (ARN) associated with the resource.

Type: String

Required: Yes

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Type: String

Required: Yes

CreatedAt

The date and time the channel was created.

Type: Timestamp

Required: Yes

ModifiedAt

The date and time the channel was modified.

Type: Timestamp

Required: Yes

Description

Any descriptive information that you want to add to the channel for future identification purposes.

Type: String

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

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](#)

CreateDashManifestConfiguration

Create a DASH manifest configuration.

Contents

ManifestName

A short string that's appended to the endpoint URL. The child manifest name creates a unique path to this endpoint.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

DrmSignaling

Determines how the DASH manifest signals the DRM content.

Type: String

Valid Values: INDIVIDUAL | REFERENCED

Required: No

FilterConfiguration

Filter configuration includes settings for manifest filtering, start and end times, and time delay that apply to all of your egress requests for this manifest.

Type: [FilterConfiguration](#) object

Required: No

ManifestWindowSeconds

The total duration (in seconds) of the manifest's content.

Type: Integer

Valid Range: Minimum value of 30.

Required: No

MinBufferTimeSeconds

Minimum amount of content (in seconds) that a player must keep available in the buffer.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 3600.

Required: No

MinUpdatePeriodSeconds

Minimum amount of time (in seconds) that the player should wait before requesting updates to the manifest.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 3600.

Required: No

PeriodTriggers

A list of triggers that controls when AWS Elemental MediaPackage separates the MPEG-DASH manifest into multiple periods. Type ADS to indicate that AWS Elemental MediaPackage must create periods in the output manifest that correspond to SCTE-35 ad markers in the input source. Leave this value empty to indicate that the manifest is contained all in one period. For more information about periods in the DASH manifest, see [Multi-period DASH in AWS Elemental MediaPackage](#).

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Valid Values: AVAILS | DRM_KEY_ROTATION | SOURCE_CHANGES | SOURCE_DISRUPTIONS | NONE

Required: No

ScteDash

The SCTE configuration.

Type: [ScteDash](#) object

Required: No

SegmentTemplateFormat

Determines the type of variable used in the media URL of the SegmentTemplate tag in the manifest. Also specifies if segment timeline information is included in SegmentTimeline or SegmentTemplate.

Value description:

- NUMBER_WITH_TIMELINE - The \$Number\$ variable is used in the media URL. The value of this variable is the sequential number of the segment. A full SegmentTimeline object is presented in each SegmentTemplate.

Type: String

Valid Values: NUMBER_WITH_TIMELINE

Required: No

SuggestedPresentationDelaySeconds

The amount of time (in seconds) that the player should be from the end of the manifest.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 3600.

Required: No

UtcTiming

Determines the type of UTC timing included in the DASH Media Presentation Description (MPD).

Type: [DashUtcTiming](#) 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](#)

CreateHlsManifestConfiguration

Create an HTTP live streaming (HLS) manifest configuration.

Contents

ManifestName

A short string that's appended to the endpoint URL. The manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default manifest name, `index`. MediaPackage automatically inserts the format extension, such as `.m3u8`. You can't use the same manifest name if you use HLS manifest and low-latency HLS manifest. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChildManifestName

A short string that's appended to the endpoint URL. The child manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default manifest name, `index`, with an added suffix to distinguish it from the manifest name. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: No

FilterConfiguration

Filter configuration includes settings for manifest filtering, start and end times, and time delay that apply to all of your egress requests for this manifest.

Type: [FilterConfiguration](#) object

Required: No

ManifestWindowSeconds

The total duration (in seconds) of the manifest's content.

Type: Integer

Valid Range: Minimum value of 30.

Required: No

ProgramDateTimeIntervalSeconds

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify. If you don't enter an interval, EXT-X-PROGRAM-DATE-TIME tags aren't included in the manifest. The tags sync the stream to the wall clock so that viewers can seek to a specific time in the playback timeline on the player. ID3Timed metadata messages generate every 5 seconds whenever the content is ingested.

Irrespective of this parameter, if any ID3Timed metadata is in the HLS input, it is passed through to the HLS output.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1209600.

Required: No

ScteHls

The SCTE configuration.

Type: [ScteHls](#) 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](#)

CreateLowLatencyHlsManifestConfiguration

Create a low-latency HTTP live streaming (HLS) manifest configuration.

Contents

ManifestName

A short string that's appended to the endpoint URL. The manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default manifest name, `index`. MediaPackage automatically inserts the format extension, such as `.m3u8`. You can't use the same manifest name if you use HLS manifest and low-latency HLS manifest. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChildManifestName

A short string that's appended to the endpoint URL. The child manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default manifest name, `index`, with an added suffix to distinguish it from the manifest name. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: No

FilterConfiguration

Filter configuration includes settings for manifest filtering, start and end times, and time delay that apply to all of your egress requests for this manifest.

Type: [FilterConfiguration](#) object

Required: No

ManifestWindowSeconds

The total duration (in seconds) of the manifest's content.

Type: Integer

Valid Range: Minimum value of 30.

Required: No

ProgramDateTimeIntervalSeconds

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify. If you don't enter an interval, EXT-X-PROGRAM-DATE-TIME tags aren't included in the manifest. The tags sync the stream to the wall clock so that viewers can seek to a specific time in the playback timeline on the player. ID3Timed metadata messages generate every 5 seconds whenever the content is ingested.

Irrespective of this parameter, if any ID3Timed metadata is in the HLS input, it is passed through to the HLS output.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1209600.

Required: No

ScteHls

The SCTE configuration.

Type: [ScteHls](#) 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](#)

DashUtcTiming

Determines the type of UTC timing included in the DASH Media Presentation Description (MPD).

Contents

TimingMode

The UTC timing mode.

Type: String

Valid Values: HTTP_HEAD | HTTP_ISO | HTTP_XSDATE | UTC_DIRECT

Required: No

TimingSource

The the method that the player uses to synchronize to coordinated universal time (UTC) wall clock time.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

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](#)

Encryption

The parameters for encrypting content.

Contents

EncryptionMethod

The encryption method to use.

Type: [EncryptionMethod](#) object

Required: Yes

SpekeKeyProvider

The parameters for the SPEKE key provider.

Type: [SpekeKeyProvider](#) object

Required: Yes

ConstantInitializationVector

A 128-bit, 16-byte hex value represented by a 32-character string, used in conjunction with the key for encrypting content. If you don't specify a value, then MediaPackage creates the constant initialization vector (IV).

Type: String

Length Constraints: Fixed length of 32.

Pattern: `[0-9a-fA-F]+`

Required: No

KeyRotationIntervalSeconds

The frequency (in seconds) of key changes for live workflows, in which content is streamed real time. The service retrieves content keys before the live content begins streaming, and then retrieves them as needed over the lifetime of the workflow. By default, key rotation is set to 300 seconds (5 minutes), the minimum rotation interval, which is equivalent to setting it to 300. If you don't enter an interval, content keys aren't rotated.

The following example setting causes the service to rotate keys every thirty minutes: `1800`

Type: Integer

Valid Range: Minimum value of 300. Maximum value of 31536000.

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](#)

EncryptionContractConfiguration

Configure one or more content encryption keys for your endpoints that use SPEKE Version 2.0. The encryption contract defines which content keys are used to encrypt the audio and video tracks in your stream. To configure the encryption contract, specify which audio and video encryption presets to use.

Contents

PresetSpeke20Audio

A collection of audio encryption presets.

Value description:

- PRESET-AUDIO-1 - Use one content key to encrypt all of the audio tracks in your stream.
- PRESET-AUDIO-2 - Use one content key to encrypt all of the stereo audio tracks and one content key to encrypt all of the multichannel audio tracks.
- PRESET-AUDIO-3 - Use one content key to encrypt all of the stereo audio tracks, one content key to encrypt all of the multichannel audio tracks with 3 to 6 channels, and one content key to encrypt all of the multichannel audio tracks with more than 6 channels.
- SHARED - Use the same content key for all of the audio and video tracks in your stream.
- UNENCRYPTED - Don't encrypt any of the audio tracks in your stream.

Type: String

Valid Values: PRESET_AUDIO_1 | PRESET_AUDIO_2 | PRESET_AUDIO_3 | SHARED | UNENCRYPTED

Required: Yes

PresetSpeke20Video

A collection of video encryption presets.

Value description:

- PRESET-VIDEO-1 - Use one content key to encrypt all of the video tracks in your stream.
- PRESET-VIDEO-2 - Use one content key to encrypt all of the SD video tracks and one content key for all HD and higher resolutions video tracks.

- PRESET-VIDEO-3 - Use one content key to encrypt all of the SD video tracks, one content key for HD video tracks and one content key for all UHD video tracks.
- PRESET-VIDEO-4 - Use one content key to encrypt all of the SD video tracks, one content key for HD video tracks, one content key for all UHD1 video tracks and one content key for all UHD2 video tracks.
- PRESET-VIDEO-5 - Use one content key to encrypt all of the SD video tracks, one content key for HD1 video tracks, one content key for HD2 video tracks, one content key for all UHD1 video tracks and one content key for all UHD2 video tracks.
- PRESET-VIDEO-6 - Use one content key to encrypt all of the SD video tracks, one content key for HD1 video tracks, one content key for HD2 video tracks and one content key for all UHD video tracks.
- PRESET-VIDEO-7 - Use one content key to encrypt all of the SD+HD1 video tracks, one content key for HD2 video tracks and one content key for all UHD video tracks.
- PRESET-VIDEO-8 - Use one content key to encrypt all of the SD+HD1 video tracks, one content key for HD2 video tracks, one content key for all UHD1 video tracks and one content key for all UHD2 video tracks.
- SHARED - Use the same content key for all of the video and audio tracks in your stream.
- UNENCRYPTED - Don't encrypt any of the video tracks in your stream.

Type: String

Valid Values: PRESET_VIDEO_1 | PRESET_VIDEO_2 | PRESET_VIDEO_3 |
PRESET_VIDEO_4 | PRESET_VIDEO_5 | PRESET_VIDEO_6 | PRESET_VIDEO_7 |
PRESET_VIDEO_8 | SHARED | UNENCRYPTED

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](#)

EncryptionMethod

The encryption type.

Contents

CmafEncryptionMethod

The encryption method to use.

Type: String

Valid Values: CENC | CBCS

Required: No

TsEncryptionMethod

The encryption method to use.

Type: String

Valid Values: AES_128 | SAMPLE_AES

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](#)

FilterConfiguration

Filter configuration includes settings for manifest filtering, start and end times, and time delay that apply to all of your egress requests for this manifest.

Contents

End

Optionally specify the end time for all of your manifest egress requests. When you include end time, note that you cannot use end time query parameters for this manifest's endpoint URL.

Type: Timestamp

Required: No

ManifestFilter

Optionally specify one or more manifest filters for all of your manifest egress requests. When you include a manifest filter, note that you cannot use an identical manifest filter query parameter for this manifest's endpoint URL.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

Start

Optionally specify the start time for all of your manifest egress requests. When you include start time, note that you cannot use start time query parameters for this manifest's endpoint URL.

Type: Timestamp

Required: No

TimeDelaySeconds

Optionally specify the time delay for all of your manifest egress requests. Enter a value that is smaller than your endpoint's startover window. When you include time delay, note that you cannot use time delay query parameters for this manifest's endpoint URL.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1209600.

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](#)

GetDashManifestConfiguration

Retrieve the DASH manifest configuration.

Contents

ManifestName

A short string that's appended to the endpoint URL. The manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default manifest name, `index`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Url

The egress domain URL for stream delivery from MediaPackage.

Type: String

Required: Yes

DrmSignaling

Determines how the DASH manifest signals the DRM content.

Type: String

Valid Values: `INDIVIDUAL` | `REFERENCED`

Required: No

FilterConfiguration

Filter configuration includes settings for manifest filtering, start and end times, and time delay that apply to all of your egress requests for this manifest.

Type: [FilterConfiguration](#) object

Required: No

ManifestWindowSeconds

The total duration (in seconds) of the manifest's content.

Type: Integer

Required: No

MinBufferTimeSeconds

Minimum amount of content (in seconds) that a player must keep available in the buffer.

Type: Integer

Required: No

MinUpdatePeriodSeconds

Minimum amount of time (in seconds) that the player should wait before requesting updates to the manifest.

Type: Integer

Required: No

PeriodTriggers

A list of triggers that controls when AWS Elemental MediaPackage separates the MPEG-DASH manifest into multiple periods. Leave this value empty to indicate that the manifest is contained all in one period. For more information about periods in the DASH manifest, see [Multi-period DASH in AWS Elemental MediaPackage](#).

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Valid Values: AVAILS | DRM_KEY_ROTATION | SOURCE_CHANGES | SOURCE_DISRUPTIONS | NONE

Required: No

ScteDash

The SCTE configuration.

Type: [ScteDash](#) object

Required: No

SegmentTemplateFormat

Determines the type of variable used in the `media` URL of the `SegmentTemplate` tag in the manifest. Also specifies if segment timeline information is included in `SegmentTimeline` or `SegmentTemplate`.

Value description:

- `NUMBER_WITH_TIMELINE` - The `$Number$` variable is used in the `media` URL. The value of this variable is the sequential number of the segment. A full `SegmentTimeline` object is presented in each `SegmentTemplate`.

Type: String

Valid Values: `NUMBER_WITH_TIMELINE`

Required: No

SuggestedPresentationDelaySeconds

The amount of time (in seconds) that the player should be from the end of the manifest.

Type: Integer

Required: No

UtcTiming

Determines the type of UTC timing included in the DASH Media Presentation Description (MPD).

Type: [DashUtcTiming](#) 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](#)

GetHlsManifestConfiguration

Retrieve the HTTP live streaming (HLS) manifest configuration.

Contents

ManifestName

A short string that's appended to the endpoint URL. The manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default manifest name, `index`. MediaPackage automatically inserts the format extension, such as `.m3u8`. You can't use the same manifest name if you use HLS manifest and low-latency HLS manifest. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Url

The egress domain URL for stream delivery from MediaPackage.

Type: String

Required: Yes

ChildManifestName

A short string that's appended to the endpoint URL. The child manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default child manifest name, `index_1`. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: No

FilterConfiguration

Filter configuration includes settings for manifest filtering, start and end times, and time delay that apply to all of your egress requests for this manifest.

Type: [FilterConfiguration](#) object

Required: No

ManifestWindowSeconds

The total duration (in seconds) of the manifest's content.

Type: Integer

Required: No

ProgramDateTimeIntervalSeconds

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify. If you don't enter an interval, EXT-X-PROGRAM-DATE-TIME tags aren't included in the manifest. The tags sync the stream to the wall clock so that viewers can seek to a specific time in the playback timeline on the player. ID3Timed metadata messages generate every 5 seconds whenever the content is ingested.

Irrespective of this parameter, if any ID3Timed metadata is in the HLS input, it is passed through to the HLS output.

Type: Integer

Required: No

ScteHls

The SCTE configuration.

Type: [ScteHls](#) 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](#)

GetLowLatencyHlsManifestConfiguration

Retrieve the low-latency HTTP live streaming (HLS) manifest configuration.

Contents

ManifestName

A short string that's appended to the endpoint URL. The manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default manifest name, `index`. MediaPackage automatically inserts the format extension, such as `.m3u8`. You can't use the same manifest name if you use HLS manifest and low-latency HLS manifest. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Url

The egress domain URL for stream delivery from MediaPackage.

Type: String

Required: Yes

ChildManifestName

A short string that's appended to the endpoint URL. The child manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default child manifest name, `index_1`. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: No

FilterConfiguration

Filter configuration includes settings for manifest filtering, start and end times, and time delay that apply to all of your egress requests for this manifest.

Type: [FilterConfiguration](#) object

Required: No

ManifestWindowSeconds

The total duration (in seconds) of the manifest's content.

Type: Integer

Required: No

ProgramDateTimeIntervalSeconds

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify. If you don't enter an interval, EXT-X-PROGRAM-DATE-TIME tags aren't included in the manifest. The tags sync the stream to the wall clock so that viewers can seek to a specific time in the playback timeline on the player. ID3Timed metadata messages generate every 5 seconds whenever the content is ingested.

Irrespective of this parameter, if any ID3Timed metadata is in the HLS input, it is passed through to the HLS output.

Type: Integer

Required: No

ScteHls

The SCTE configuration.

Type: [ScteHls](#) 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](#)

IngestEndpoint

The ingest domain URL where the source stream should be sent.

Contents

Id

The system-generated unique identifier for the IngestEndpoint.

Type: String

Required: No

Url

The ingest domain URL where the source stream should be sent.

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](#)

ListDashManifestConfiguration

List the DASH manifest configuration.

Contents

ManifestName

A short string that's appended to the endpoint URL. The manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default manifest name, `index`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Url

The egress domain URL for stream delivery from MediaPackage.

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](#)

ListHlsManifestConfiguration

List the HTTP live streaming (HLS) manifest configuration.

Contents

ManifestName

A short string that's appended to the endpoint URL. The manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default manifest name, `index`. MediaPackage automatically inserts the format extension, such as `.m3u8`. You can't use the same manifest name if you use HLS manifest and low-latency HLS manifest. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChildManifestName

A short string that's appended to the endpoint URL. The child manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default child manifest name, `index_1`. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: No

Url

The egress domain URL for stream delivery from MediaPackage.

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](#)

ListLowLatencyHlsManifestConfiguration

List the low-latency HTTP live streaming (HLS) manifest configuration.

Contents

ManifestName

A short string that's appended to the endpoint URL. The manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default manifest name, `index`. MediaPackage automatically inserts the format extension, such as `.m3u8`. You can't use the same manifest name if you use HLS manifest and low-latency HLS manifest. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChildManifestName

A short string that's appended to the endpoint URL. The child manifest name creates a unique path to this endpoint. If you don't enter a value, MediaPackage uses the default child manifest name, `index_1`. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: No

Url

The egress domain URL for stream delivery from MediaPackage.

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](#)

OriginEndpointListConfiguration

The configuration of the origin endpoint.

Contents

Arn

The Amazon Resource Name (ARN) associated with the resource.

Type: String

Required: Yes

ChannelGroupName

The name that describes the channel group. The name is the primary identifier for the channel group, and must be unique for your account in the AWS Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ChannelName

The name that describes the channel. The name is the primary identifier for the channel, and must be unique for your account in the AWS Region and channel group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

ContainerType

The type of container attached to this origin endpoint. A container type is a file format that encapsulates one or more media streams, such as audio and video, into a single file.

Type: String

Valid Values: TS | CMAF

Required: Yes

OriginEndpointName

The name that describes the origin endpoint. The name is the primary identifier for the origin endpoint, and must be unique for your account in the AWS Region and channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

CreatedAt

The date and time the origin endpoint was created.

Type: Timestamp

Required: No

DashManifests

A DASH manifest configuration.

Type: Array of [ListDashManifestConfiguration](#) objects

Required: No

Description

Any descriptive information that you want to add to the origin endpoint for future identification purposes.

Type: String

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

Required: No

HlsManifests

An HTTP live streaming (HLS) manifest configuration.

Type: Array of [ListHlsManifestConfiguration](#) objects

Required: No

LowLatencyHlsManifests

A low-latency HLS manifest configuration.

Type: Array of [ListLowLatencyHlsManifestConfiguration](#) objects

Required: No

ModifiedAt

The date and time the origin endpoint was modified.

Type: Timestamp

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](#)

Scte

The SCTE configuration.

Contents

ScteFilter

The SCTE-35 message types that you want to be treated as ad markers in the output.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Valid Values: SPLICE_INSERT | BREAK | PROVIDER_ADVERTISEMENT |
DISTRIBUTOR_ADVERTISEMENT | PROVIDER_PLACEMENT_OPPORTUNITY |
DISTRIBUTOR_PLACEMENT_OPPORTUNITY |
PROVIDER_OVERLAY_PLACEMENT_OPPORTUNITY |
DISTRIBUTOR_OVERLAY_PLACEMENT_OPPORTUNITY | PROGRAM

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](#)

ScteDash

The SCTE configuration.

Contents

AdMarkerDash

Choose how ad markers are included in the packaged content. If you include ad markers in the content stream in your upstream encoders, then you need to inform MediaPackage what to do with the ad markers in the output.

Value description:

- **Binary** - The SCTE-35 marker is expressed as a hex-string (Base64 string) rather than full XML.
- **XML** - The SCTE marker is expressed fully in XML.

Type: String

Valid Values: BINARY | XML

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](#)

ScteHls

The SCTE configuration.

Contents

AdMarkerHls

Ad markers indicate when ads should be inserted during playback. If you include ad markers in the content stream in your upstream encoders, then you need to inform MediaPackage what to do with the ad markers in the output. Choose what you want MediaPackage to do with the ad markers.

Value description:

- **DATERANGE** - Insert EXT-X-DATERANGE tags to signal ad and program transition events in TS and CMAF manifests. If you use DATERANGE, you must set a `programDateTimeIntervalSeconds` value of 1 or higher. To learn more about DATERANGE, see [SCTE-35 Ad Marker EXT-X-DATERANGE](#).

Type: String

Valid Values: DATERANGE

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](#)

Segment

The segment configuration, including the segment name, duration, and other configuration values.

Contents

Encryption

The parameters for encrypting content.

Type: [Encryption](#) object

Required: No

IncludelframeOnlyStreams

When selected, the stream set includes an additional I-frame only stream, along with the other tracks. If false, this extra stream is not included. MediaPackage generates an I-frame only stream from the first rendition in the manifest. The service inserts EXT-I-FRAMES-ONLY tags in the output manifest, and then generates and includes an I-frames only playlist in the stream. This playlist permits player functionality like fast forward and rewind.

Type: Boolean

Required: No

Scte

The SCTE configuration options in the segment settings.

Type: [Scte](#) object

Required: No

SegmentDurationSeconds

The duration (in seconds) of each segment. Enter a value equal to, or a multiple of, the input segment duration. If the value that you enter is different from the input segment duration, MediaPackage rounds segments to the nearest multiple of the input segment duration.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 30.

Required: No

SegmentName

The name that describes the segment. The name is the base name of the segment used in all content manifests inside of the endpoint. You can't use spaces in the name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: No

TsIncludeDvbSubtitles

By default, MediaPackage excludes all digital video broadcasting (DVB) subtitles from the output. When selected, MediaPackage passes through DVB subtitles into the output.

Type: Boolean

Required: No

TsUseAudioRenditionGroup

When selected, MediaPackage bundles all audio tracks in a rendition group. All other tracks in the stream can be used with any audio rendition from the group.

Type: Boolean

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](#)

SpekeKeyProvider

The parameters for the SPEKE key provider.

Contents

DrmSystems

The DRM solution provider you're using to protect your content during distribution.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 4 items.

Valid Values: CLEAR_KEY_AES_128 | FAIRPLAY | PLAYREADY | WIDEVINE

Required: Yes

EncryptionContractConfiguration

Configure one or more content encryption keys for your endpoints that use SPEKE Version 2.0. The encryption contract defines which content keys are used to encrypt the audio and video tracks in your stream. To configure the encryption contract, specify which audio and video encryption presets to use.

Type: [EncryptionContractConfiguration](#) object

Required: Yes

ResourceId

The unique identifier for the content. The service sends this to the key server to identify the current endpoint. How unique you make this depends on how fine-grained you want access controls to be. The service does not permit you to use the same ID for two simultaneous encryption processes. The resource ID is also known as the content ID.

The following example shows a resource ID: MovieNight20171126093045

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[0-9a-zA-Z_-]+`

Required: Yes

RoleArn

The ARN for the IAM role granted by the key provider that provides access to the key provider API. This role must have a trust policy that allows MediaPackage to assume the role, and it must have a sufficient permissions policy to allow access to the specific key retrieval URL. Get this from your DRM solution provider.

Valid format: `arn:aws:iam::<accountID>:role/<name>`. The following example shows a role ARN: `arn:aws:iam::444455556666:role/SpekeAccess`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

Url

The URL of the API Gateway proxy that you set up to talk to your key server. The API Gateway proxy must reside in the same AWS Region as MediaPackage and must start with `https://`.

The following example shows a URL: `https://1wm2dx1f33.execute-api.us-west-2.amazonaws.com/SpekeSample/copyProtection`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

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](#)

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: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

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

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

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

UnrecognizedClientException

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

UnknownOperationException

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 404

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400