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# AWS Elemental MediaPackage

## Live API Reference



## **AWS Elemental MediaPackage: Live API Reference**

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# What Is the AWS Elemental MediaPackage Live API Reference?

This is the AWS Elemental MediaPackage REST API Reference. It contains examples of REST resources and their operations.

## **AWS Elemental MediaPackage REST API overview**

The AWS Elemental MediaPackage API comprises of two main resources: the channel and the endpoint. The channel is the entry point to AWS Elemental MediaPackage. The endpoint is a part of the channel and is the exit point from AWS Elemental MediaPackage. The endpoint is referred to as an `OriginEndpoint` in the REST API.

## **To get started with AWS Elemental MediaPackage**

Step 1: Create a channel.

The channel is the first component in AWS Elemental MediaPackage. It represents the input to AWS Elemental MediaPackage for incoming content from an encoder.

Step 2: Create endpoints.

The endpoint is attached to the channel, and represents the output of the content from AWS Elemental MediaPackage. There can be multiple endpoints associated with one channel. Each endpoint provides downstream content distribution networks (CDNs) and players access to the content for playback.

Step 3: Integrate AWS Elemental MediaPackage.

When the channel and endpoints are created, they provide URLs that are used for input and output, respectively. In the encoder, use WebDAV to push the stream to AWS Elemental MediaPackage. For the stream destination information, enter the input URL from the channel. You also must configure the username and password from the channel on the encoder's output stream, or AWS Elemental MediaPackage denies the content push. In the CDN or player, enter the endpoint URL from the AWS Elemental MediaPackage endpoint as the content request address.

For general information on the service, see the [AWS Elemental MediaPackage User Guide](#).

# Resources

The AWS Elemental MediaPackage REST API includes the following resources.

## Topics

- [Channels](#) (p. 2)
- [Channels id](#) (p. 9)
- [Channels id Credentials](#) (p. 17)
- [Channels id Ingest\\_endpoints ingest\\_endpoint\\_id Credentials](#) (p. 21)
- [Origin\\_endpoints](#) (p. 25)
- [Origin\\_endpoints id](#) (p. 53)
- [Tags resource-arn](#) (p. 80)

## Channels

### URI

/channels

### HTTP Methods

#### GET

Operation ID: ListChannels

Lists channels that match a set of filters that you define.

#### AWS CLI Request Syntax

```
aws mediapackage list-channels
[--starting-token <value>]
[--page-size <value>]
[--max-items <value>]
```

Use pagination to limit the number of entries you receive in the response. For more how to use pagination, see [Using the AWS Command Line Interface's Pagination Options](#).

#### Query Parameters

Name	Type	Required	Description
nextToken	String	False	Pagination token from the GET list request. Use the token to fetch the next page of results.
maxResults	String	False	Upper bound on number of records to return.

## Responses

Status Code	Response Model	Description
200	<a href="#">ChannelList</a> (p. 5)	200 OK response  The list of channels is returned successfully.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.
503	None	Service unavailable response  AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

## POST

Operation ID: CreateChannel

Creates a channel to receive content.

Once created, a channel provides static input URLs. These URLs remain the same throughout the lifetime of the channel, regardless of any failures or upgrades that might occur. Use these URLs to configure the outputs of your upstream encoder.

### AWS CLI Request Syntax

```
aws mediapackage create-channel  
-id <value>  
[--description <value>]
```

For a complete list of channel attributes, see the ChannelCreateParameters property.

### Example POST Channel Request Body

```
{  
  "id": "sportschannel",  
  "description": "24x7 sports"  
}
```

### Responses

Status Code	Response Model	Description
200	<a href="#">Channel (p. 5)</a>	200 OK response  The channel is created successfully.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental

Status Code	Response Model	Description
503	None	MediaPackage from fulfilling the request.  Service unavailable response  AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

## Schemas

### Request Bodies

#### Example POST

```
{
  "description": "string",
  "id": "string",
  "tags": {
  }
}
```

### Response Bodies

#### Example ChannelList

```
{
  "channels": [
    {
      "description": "string",
      "hlsIngest": {
        "ingestEndpoints": [
          {
            "password": "string",
            "id": "string",
            "url": "string",
            "username": "string"
          }
        ]
      },
      "id": "string",
      "arn": "string",
      "tags": {
      }
    }
  ],
  "nextToken": "string"
}
```

#### Example Channel

```
{
```



```
"description": "string",
"hlsIngest": {
  "ingestEndpoints": [
    {
      "password": "string",
      "id": "string",
      "url": "string",
      "username": "string"
    }
  ]
},
"id": "string",
"arn": "string",
"tags": {
}
}
```

## Properties

### Channel

Channel configuration.

#### description

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

**Type:** string

**Required:** False

#### hlsIngest

System-generated information about the channel.

**Type:** [HlsIngest \(p. 7\)](#)

**Required:** False

#### id

Unique identifier that you assign to the channel.

**Type:** string

**Required:** False

#### arn

The channel's unique system-generated resource name, based on the AWS record.

**Type:** string

**Required:** False

#### tags

The tags assigned to the channel.

**Type:** [Tags \(p. 8\)](#)

**Required:** False

## ChannelCreateParameters

Channel configuration.

### description

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

**Type:** string

**Required:** False

### id

Unique identifier that you assign to the channel.

**Type:** string

**Required:** True

### tags

The tags to assign to the channel.

**Type:** [Tags \(p. 8\)](#)

**Required:** False

## ChannelList

A collection of Channel records.

### channels

List of channel objects that are configured on this account.

**Type:** Array of type [Channel \(p. 6\)](#)

**Required:** False

### nextToken

Pagination token. Use this token to request the next page of channel results.

**Type:** string

**Required:** False

## HlsIngest

HLS ingest configuration.

### ingestEndpoints

The input URL where the source stream should be sent.

**Type:** Array of type [IngestEndpoint \(p. 8\)](#)  
**Required:** False

## IngestEndpoint

An endpoint for ingesting source content for a channel.

### password

The system-generated password for WebDAV input authentication.

**Type:** string  
**Required:** False

### id

The system-generated unique identifier for the IngestEndpoint.

**Type:** string  
**Required:** False

### url

The input URL where the source stream should be sent.

**Type:** string  
**Required:** False

### username

The system-generated username for WebDAV input authentication.

**Type:** string  
**Required:** False

## Tags

A collection of tags associated with a resource.

- **Property:** `"key1": "value1"`
- **Type:** string
- **Required:** True
- **Description:** A comma-separated list of tag key:value pairs that you define. For example:

```
{  
  "Key1": "Value1",  
  "Key2": "Value2"  
}
```

### key-value pairs

**Type:** string

## See Also

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

### ListChannels

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

### CreateChannel

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

## Channels id

### URI

/channels/*id*

### HTTP Methods

#### GET

Operation ID: DescribeChannel

Provides details about a channel.

## AWS CLI Request Syntax

```
aws mediapackage describe-channel --id <channelId>
```

## Path Parameters

Name	Type	Required	Description
<i>id</i>	String	True	Identifier for the object that you are working on.

## Responses

Status Code	Response Model	Description
200	<a href="#">Channel</a> (p. 14)	200 OK response  Channel details are returned successfully.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.
503	None	Service unavailable response

Status Code	Response Model	Description
		AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

## PUT

Operation ID: UpdateChannel

Updates a specific channel. You can't change the `id` attribute or any other system-generated attributes.

### AWS CLI Request Syntax

```
aws mediapackage update-channel
--id <channelId>
[--description <value>]
```

Pass in the updated description as an argument in the AWS CLI request.

### Path Parameters

Name	Type	Required	Description
<i>id</i>	String	True	Identifier for the object that you are working on.

### Responses

Status Code	Response Model	Description
200	<a href="#">Channel (p. 14)</a>	200 OK response  The channel is updated successfully.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the

Status Code	Response Model	Description
429	None	instructions in the body of the request.  429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.
503	None	Service unavailable response  AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

## DELETE

Operation ID: DeleteChannel

Permanently deletes a channel.

### AWS CLI Request Syntax

```
aws mediapackage delete-channel --id <channelId>
```

### Path Parameters

Name	Type	Required	Description
<i>id</i>	String	True	Identifier for the object that you are working on.

### Responses

Status Code	Response Model	Description
202	None	202 Accepted response  AWS Elemental MediaPackage accepted the request but has not processed it yet.

Status Code	Response Model	Description
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.
503	None	Service unavailable response  AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

## Schemas

### Request Bodies

#### Example PUT

```
{  
  "description": "string"  
}
```



## Response Bodies

### Example Channel

```
{
  "description": "string",
  "hlsIngest": {
    "ingestEndpoints": [
      {
        "password": "string",
        "id": "string",
        "url": "string",
        "username": "string"
      }
    ]
  },
  "id": "string",
  "arn": "string",
  "tags": {
  }
}
```

## Properties

### Channel

Channel configuration.

#### **description**

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

**Type:** string  
**Required:** False

#### **hlsIngest**

System-generated information about the channel.

**Type:** [HlsIngest \(p. 15\)](#)  
**Required:** False

#### **id**

Unique identifier that you assign to the channel.

**Type:** string  
**Required:** False

#### **arn**

The channel's unique system-generated resource name, based on the AWS record.

**Type:** string  
**Required:** False

### **tags**

The tags assigned to the channel.

**Type:** [Tags \(p. 16\)](#)

**Required:** False

## ChannelUpdateParameters

Channel configuration.

### **description**

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

**Type:** string

**Required:** False

## HlsIngest

HLS ingest configuration.

### **ingestEndpoints**

The input URL where the source stream should be sent.

**Type:** Array of type [IngestEndpoint \(p. 15\)](#)

**Required:** False

## IngestEndpoint

An endpoint for ingesting source content for a channel.

### **password**

The system-generated password for WebDAV input authentication.

**Type:** string

**Required:** False

### **id**

The system-generated unique identifier for the IngestEndpoint.

**Type:** string

**Required:** False

### **url**

The input URL where the source stream should be sent.

**Type:** string

**Required:** False

### username

The system-generated username for WebDAV input authentication.

**Type:** string

**Required:** False

## Tags

A collection of tags associated with a resource.

- **Property:** `"key1": "value1"`
- **Type:** string
- **Required:** True
- **Description:** A comma-separated list of tag key:value pairs that you define. For example:

```
{  
  "Key1": "Value1",  
  "Key2": "Value2"  
}
```

### key-value pairs

**Type:** string

## See Also

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

## DescribeChannel

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

## UpdateChannel

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

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

## DeleteChannel

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

# Channels id Credentials

## URI

/channels/*id*/credentials

## HTTP Methods

### PUT

Operation ID: RotateChannelCredentials

Changes the username and password of the first IngestEndpoint on the channel.

#### **Important**

This API is being deprecated. Use RotateIngestEndpointCredentials instead.

#### **Path Parameters**

Name	Type	Required	Description
<i>id</i>	String	True	Identifier for the object that you are working on.

#### **Responses**

Status Code	Response Model	Description
200	<a href="#">Channel</a> (p. 18)	200 OK response

Status Code	Response Model	Description
403	None	<p>New WebDAV credentials are generated successfully.</p> <p>403 Forbidden response</p>
404	None	<p>AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.</p> <p>404 Not Found response</p> <p>AWS Elemental MediaPackage did not find a representation of the target resource.</p>
422	None	<p>422 Unprocessable Entity response</p> <p>AWS Elemental MediaPackage could not process the instructions in the body of the request.</p>
429	None	<p>429 Too Many Requests response</p> <p>Too many requests have been sent in a given amount of time.</p>
500	None	<p>500 Internal Server Error response</p> <p>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</p>
503	None	<p>Service unavailable response</p> <p>AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.</p>

## Schemas

### Response Bodies

#### Example Channel

```
{
  "description": "string",
  "hlsIngest": {
```

```
"ingestEndpoints": [  
  {  
    "password": "string",  
    "id": "string",  
    "url": "string",  
    "username": "string"  
  }  
]  
,  
"id": "string",  
"arn": "string",  
"tags": {  
}
```

## Properties

### Channel

Channel configuration.

#### description

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

**Type:** string  
**Required:** False

#### hlsIngest

System-generated information about the channel.

**Type:** [HlsIngest \(p. 20\)](#)  
**Required:** False

#### id

Unique identifier that you assign to the channel.

**Type:** string  
**Required:** False

#### arn

The channel's unique system-generated resource name, based on the AWS record.

**Type:** string  
**Required:** False

#### tags

The tags assigned to the channel.

**Type:** [Tags \(p. 20\)](#)  
**Required:** False

## HlsIngest

HLS ingest configuration.

### ingestEndpoints

The input URL where the source stream should be sent.

**Type:** Array of type [IngestEndpoint \(p. 20\)](#)

**Required:** False

## IngestEndpoint

An endpoint for ingesting source content for a channel.

### password

The system-generated password for WebDAV input authentication.

**Type:** string

**Required:** False

### id

The system-generated unique identifier for the IngestEndpoint.

**Type:** string

**Required:** False

### url

The input URL where the source stream should be sent.

**Type:** string

**Required:** False

### username

The system-generated username for WebDAV input authentication.

**Type:** string

**Required:** False

## Tags

A collection of tags associated with a resource.

- **Property:** `"key1": "value1"`
- **Type:** string
- **Required:** True
- **Description:** A comma-separated list of tag key:value pairs that you define. For example:

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

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

### key-value pairs

**Type:** string

## See Also

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

## RotateChannelCredentials

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

# Channels id Ingest\_endpoints ingest\_endpoint\_id Credentials

## URI

/channels/*id*/ingest\_endpoints/*ingest\_endpoint\_id*/credentials

## HTTP Methods

### PUT

Operation ID: RotateIngestEndpointCredentials

Rotate the IngestEndpoint's username and password, as specified by the ID of the IngestEndpoint.

#### Path Parameters

Name	Type	Required	Description
<i>ingest_endpoint_id</i>	String	True	The ID of the IngestEndpoint whose credentials you're rotating.



Name	Type	Required	Description
<i>id</i>	String	True	Identifier for the object that you are working on.

## Responses

Status Code	Response Model	Description
200	<a href="#">Channel</a> (p. 23)	200 OK response  The channel is updated successfully.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.
503	None	Service unavailable response  AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

# Schemas

## Response Bodies

### Example Channel

```
{
  "description": "string",
  "hlsIngest": {
    "ingestEndpoints": [
      {
        "password": "string",
        "id": "string",
        "url": "string",
        "username": "string"
      }
    ]
  },
  "id": "string",
  "arn": "string",
  "tags": {
  }
}
```

## Properties

### Channel

Channel configuration.

#### **description**

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

**Type:** string

**Required:** False

#### **hlsIngest**

System-generated information about the channel.

**Type:** [HlsIngest](#) (p. 24)

**Required:** False

#### **id**

Unique identifier that you assign to the channel.

**Type:** string

**Required:** False

#### **arn**

The channel's unique system-generated resource name, based on the AWS record.

**Type:** string  
**Required:** False

### tags

The tags assigned to the channel.

**Type:** [Tags \(p. 25\)](#)  
**Required:** False

## HlsIngest

HLS ingest configuration.

### ingestEndpoints

The input URL where the source stream should be sent.

**Type:** Array of type [IngestEndpoint \(p. 24\)](#)  
**Required:** False

## IngestEndpoint

An endpoint for ingesting source content for a channel.

### password

The system-generated password for WebDAV input authentication.

**Type:** string  
**Required:** False

### id

The system-generated unique identifier for the IngestEndpoint.

**Type:** string  
**Required:** False

### url

The input URL where the source stream should be sent.

**Type:** string  
**Required:** False

### username

The system-generated username for WebDAV input authentication.

**Type:** string  
**Required:** False

## Tags

A collection of tags associated with a resource.

- **Property:** `"key1": "value1"`
- **Type:** string
- **Required:** True
- **Description:** A comma-separated list of tag key:value pairs that you define. For example:

```
{
  "Key1": "Value1",
  "Key2": "Value2"
}
```

### key-value pairs

**Type:** string

## See Also

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

## RotateIngestEndpointCredentials

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

## Origin\_endpoints

### URI

/origin\_endpoints

### HTTP Methods

#### GET

Operation ID: ListOriginEndpoints

Lists endpoints that match a set of filters that you define.

### AWS CLI Request Syntax

```
aws mediapackage list-origin-endpoints
[--channel-id <channelId>]
[--starting-token <value>]
[--page-size <value>]
[--max-items <value>]
```

Where `channel id` is the channel that this endpoint is associated with. Use pagination to limit the number of entries you receive in the response. For more how to use pagination, see [Using the AWS Command Line Interface's Pagination Options](#).

### Query Parameters

Name	Type	Required	Description
<code>nextToken</code>	String	False	Pagination token from the GET list request. Use the token to fetch the next page of results.
<code>maxResults</code>	String	False	Upper bound on number of records to return.
<code>channelId</code>	String	False	Limits results to endpoints associated with the given channel ID.

### Responses

Status Code	Response Model	Description
200	<a href="#">OriginEndpointList (p. 31)</a>	200 OK response  The list of endpoints is returned successfully.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the

Status Code	Response Model	Description
429	None	instructions in the body of the request.  429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.
503	None	Service unavailable response  AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

## POST

Operation ID: CreateOriginEndpoint

Create an endpoint on an AWS Elemental MediaPackage channel.

An endpoint represents a single delivery point of a channel, and defines content output handling through various components, such as packaging protocols, DRM and encryption integration, and more.

Once created, an endpoint provides a fixed public URL. This URL remains the same throughout the lifetime of the endpoint, regardless of any failures or upgrades that might occur. Integrate the URL with a downstream CDN (such as Amazon CloudFront) or playback device.

### AWS CLI Request Syntax

```
aws mediapackage create-origin-endpoint
--id <endpointId>
--channel-id <channelId>
--dash-package | --hls-package | --mss-package} <packagingSettings>
[--description <value>]
[--manifest-name <value>]
[--startover-window-seconds <value>]
[--time-delay-seconds <value>]
[--whitelist <value>]
```

For nested parameters, such as those for `packagingSettings`, you can reference a JSON file `file://<fileName>.json` that holds all of the attributes. For a complete list of endpoint attributes, see the `CreateOriginEndpointParameters` property.

### Example POST OriginEndpoint Request Body

```
{
  "id": "hlssports",
  "channelID": "sportschannel",
  "description": "hls sports endpoint",
  "manifestName": "sports",
  "hlsPackage": {
    "segmentDurationSeconds": 10,
    "playlistWindowSeconds": 60,
    "playlistType": "none",
    "adMarkers": "none",
    "includeIframeOnlyStream": true,
    "useAudioRenditionGroup": true,
    "streamSelection": {
      "maxVideoBitsPerSecond": 600000
    }
  }
}
```

### Responses

Status Code	Response Model	Description
200	<a href="#">OriginEndpoint (p. 33)</a>	200 OK response  The endpoint is created successfully.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental

Status Code	Response Model	Description
503	None	<p>MediaPackage from fulfilling the request.</p> <p>Service unavailable response</p> <p>AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.</p>

## Schemas

### Request Bodies

#### Example POST

```
{
  "startoverWindowSeconds": integer,
  "timeDelaySeconds": integer,
  "manifestName": "string",
  "description": "string",
  "dashPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "profile": enum,
    "manifestLayout": enum,
    "segmentTemplateFormat": enum,
    "minUpdatePeriodSeconds": integer,
    "minBufferTimeSeconds": integer,
    "encryption": {
      "keyRotationIntervalSeconds": integer,
      "spekeKeyProvider": {
        "resourceId": "string",
        "certificateArn": "string",
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    }
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "periodTriggers": [
    enum
  ],
  "suggestedPresentationDelaySeconds": integer,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"id": "string",
```



```

"whitelist": [
  "string"
],
"cmfPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "keyRotationIntervalSeconds": integer,
    "spekeKeyProvider": {
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "hlsManifests": [
    {
      "adMarkers": enum,
      "playlistWindowSeconds": integer,
      "manifestName": "string",
      "programDateTimeIntervalSeconds": integer,
      "playlistType": enum,
      "id": "string",
      "includeIframeOnlyStream": boolean,
      "adTriggers": [
        enum
      ],
      "adsOnDeliveryRestrictions": enum
    }
  ],
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "segmentPrefix": "string"
},
"channelId": "string",
"hlsPackage": {
  "useAudioRenditionGroup": boolean,
  "segmentDurationSeconds": integer,
  "adMarkers": enum,
  "encryption": {
    "repeatExtXKey": boolean,
    "constantInitializationVector": "string",
    "keyRotationIntervalSeconds": integer,
    "encryptionMethod": enum,
    "spekeKeyProvider": {
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "playlistWindowSeconds": integer,
  "programDateTimeIntervalSeconds": integer,
  "playlistType": enum,
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  }
}

```

```

    },
    "includeIframeOnlyStream": boolean,
    "adTriggers": [
      enum
    ],
    "adsOnDeliveryRestrictions": enum
  },
  "mssPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "resourceId": "string",
        "certificateArn": "string",
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    }
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  }
},
"tags": {
}
}

```

## Response Bodies

### Example OriginEndpointList

```

{
  "originEndpoints": [
    {
      "startoverWindowSeconds": integer,
      "manifestName": "string",
      "description": "string",
      "dashPackage": {
        "manifestWindowSeconds": integer,
        "segmentDurationSeconds": integer,
        "profile": enum,
        "manifestLayout": enum,
        "segmentTemplateFormat": enum,
        "minUpdatePeriodSeconds": integer,
        "minBufferTimeSeconds": integer,
        "encryption": {
          "keyRotationIntervalSeconds": integer,
          "spekeKeyProvider": {
            "resourceId": "string",
            "certificateArn": "string",
            "systemIds": [
              "string"
            ],
            "roleArn": "string",
            "url": "string"
          }
        }
      },
      "streamSelection": {
        "streamOrder": enum,

```

```

        "maxVideoBitsPerSecond": integer,
        "minVideoBitsPerSecond": integer
    },
    "periodTriggers": [
        enum
    ],
    "suggestedPresentationDelaySeconds": integer,
    "adTriggers": [
        enum
    ],
    "adsOnDeliveryRestrictions": enum
},
"whitelist": [
    "string"
],
"cmafPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
        "keyRotationIntervalSeconds": integer,
        "spekeKeyProvider": {
            "resourceId": "string",
            "certificateArn": "string",
            "systemIds": [
                "string"
            ],
            "roleArn": "string",
            "url": "string"
        }
    }
},
"hlsManifests": [
    {
        "adMarkers": enum,
        "playlistWindowSeconds": integer,
        "manifestName": "string",
        "programDateTimeIntervalSeconds": integer,
        "playlistType": enum,
        "id": "string",
        "includeIframeOnlyStream": boolean,
        "url": "string"
    }
],
"streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
},
"segmentPrefix": "string"
},
"hlsPackage": {
    "useAudioRenditionGroup": boolean,
    "segmentDurationSeconds": integer,
    "adMarkers": enum,
    "encryption": {
        "repeatExtXKey": boolean,
        "constantInitializationVector": "string",
        "keyRotationIntervalSeconds": integer,
        "encryptionMethod": enum,
        "spekeKeyProvider": {
            "resourceId": "string",
            "certificateArn": "string",
            "systemIds": [
                "string"
            ],
            "roleArn": "string",
            "url": "string"
        }
    }
}

```

```

    },
    "playlistWindowSeconds": integer,
    "programDateTimeIntervalSeconds": integer,
    "playlistType": enum,
    "streamSelection": {
      "streamOrder": enum,
      "maxVideoBitsPerSecond": integer,
      "minVideoBitsPerSecond": integer
    },
    "includeIframeOnlyStream": boolean,
    "adTriggers": [
      enum
    ],
    "adsOnDeliveryRestrictions": enum
  },
  "url": "string",
  "tags": {
  },
  "timeDelaySeconds": integer,
  "id": "string",
  "arn": "string",
  "channelId": "string",
  "mssPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "resourceId": "string",
        "certificateArn": "string",
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    }
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  }
}
},
"nextToken": "string"
}

```

## Example OriginEndpoint

```

{
  "startoverWindowSeconds": integer,
  "manifestName": "string",
  "description": "string",
  "dashPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "profile": enum,
    "manifestLayout": enum,
    "segmentTemplateFormat": enum,
    "minUpdatePeriodSeconds": integer,
    "minBufferTimeSeconds": integer,
    "encryption": {
      "keyRotationIntervalSeconds": integer,
      "spekeKeyProvider": {

```

```

        "resourceId": "string",
        "certificateArn": "string",
        "systemIds": [
            "string"
        ],
        "roleArn": "string",
        "url": "string"
    }
},
"streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
},
"periodTriggers": [
    enum
],
"suggestedPresentationDelaySeconds": integer,
"adTriggers": [
    enum
],
"adsOnDeliveryRestrictions": enum
},
"whitelist": [
    "string"
],
"cmfPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
        "keyRotationIntervalSeconds": integer,
        "spekeKeyProvider": {
            "resourceId": "string",
            "certificateArn": "string",
            "systemIds": [
                "string"
            ],
            "roleArn": "string",
            "url": "string"
        }
    }
},
"hlsManifests": [
    {
        "adMarkers": enum,
        "playlistWindowSeconds": integer,
        "manifestName": "string",
        "programDateTimeIntervalSeconds": integer,
        "playlistType": enum,
        "id": "string",
        "includeIframeOnlyStream": boolean,
        "url": "string"
    }
],
"streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
},
"segmentPrefix": "string"
},
"hlsPackage": {
    "useAudioRenditionGroup": boolean,
    "segmentDurationSeconds": integer,
    "adMarkers": enum,
    "encryption": {
        "repeatExtXKey": boolean,
        "constantInitializationVector": "string",
    }
}

```

```

    "keyRotationIntervalSeconds": integer,
    "encryptionMethod": enum,
    "spekeKeyProvider": {
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "playlistWindowSeconds": integer,
  "programDateTimeIntervalSeconds": integer,
  "playlistType": enum,
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "includeIframeOnlyStream": boolean,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"url": "string",
"tags": {
},
"timeDelaySeconds": integer,
"id": "string",
"arn": "string",
"channelId": "string",
"mssPackage": {
  "manifestWindowSeconds": integer,
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  }
},
"streamSelection": {
  "streamOrder": enum,
  "maxVideoBitsPerSecond": integer,
  "minVideoBitsPerSecond": integer
}
}
}

```

## Properties

### AdsOnDeliveryRestrictions

This setting allows the delivery restriction flags on SCTE-35 segmentation descriptors to determine whether a message signals an ad.

- **NONE** - no SCTE-35 messages become ads.

- **RESTRICTED** - SCTE-35 messages of the types specified in AdTriggers that contain delivery restrictions will be treated as ads.
- **UNRESTRICTED** - SCTE-35 messages of the types specified in AdTriggers that do not contain delivery restrictions will be treated as ads.
- **BOTH** - all SCTE-35 messages of the types specified in AdTriggers will be treated as ads.

For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

NONE  
RESTRICTED  
UNRESTRICTED  
BOTH

## CmafEncryption

Holds encryption information so that access to the content can be controlled by a DRM solution.

### keyRotationIntervalSeconds

Number of seconds before AWS Elemental MediaPackage rotates to a new key. By default, rotation is set to 60 seconds. Set to 0 to disable key rotation.

**Type:** integer  
**Required:** False

### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 51)  
**Required:** True

## CmafPackage

Parameters for Common Media Application Format (CMAF) packaging.

### segmentDurationSeconds

Duration (in seconds) of each segment. Actual segments are rounded to the nearest multiple of the source segment duration.

**Type:** integer  
**Required:** False

### encryption

Parameters for encrypting content.

**Type:** [CmafEncryption](#) (p. 36)  
**Required:** False

### **hlsManifests**

A list of HLS manifest configurations available from this endpoint.

**Type:** Array of type [HlsManifest \(p. 41\)](#)

**Required:** False

### **streamSelection**

Limitations for outputs from the endpoint, based on the video bitrate.

**Type:** [StreamSelection \(p. 52\)](#)

**Required:** False

### **segmentPrefix**

An optional custom string that is prepended to the name of each segment. If not specified, the segment prefix defaults to the ChannelId.

**Type:** string

**Required:** False

## **CmafPackageCreateOrUpdateParameters**

Parameters for creating an endpoint that supports Common Media Application Format (CMAF) packaging.

### **segmentDurationSeconds**

Duration (in seconds) of each segment. Actual segments are rounded to the nearest multiple of the source segment duration.

**Type:** integer

**Required:** False

### **encryption**

Parameters for encrypting content.

**Type:** [CmafEncryption \(p. 36\)](#)

**Required:** False

### **hlsManifests**

A list of HLS manifest configurations available from this endpoint.

**Type:** Array of type [HlsManifestCreateOrUpdateParameters \(p. 43\)](#)

**Required:** False

### **streamSelection**

Limitations for outputs from the endpoint, based on the video bitrate.

**Type:** [StreamSelection \(p. 52\)](#)



**Required:** False

### **segmentPrefix**

An optional custom string that is prepended to the name of each segment. If not specified, the segment prefix defaults to the ChannelId.

**Type:** string

**Required:** False

## DashEncryption

Holds encryption information so that access to the content can be controlled by a DRM solution.

### **keyRotationIntervalSeconds**

Number of seconds before AWS Elemental MediaPackage rotates to a new key. By default, rotation is set to 60 seconds. Set to 0 to disable key rotation.

**Type:** integer

**Required:** False

### **spekeKeyProvider**

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 51)

**Required:** True

## DashPackage

Parameters for DASH packaging.

### **manifestWindowSeconds**

Time window (in seconds) contained in each manifest.

**Type:** integer

**Required:** False

### **segmentDurationSeconds**

Duration (in seconds) of each fragment. Actual fragments are rounded to the nearest multiple of the source fragment duration.

**Type:** integer

**Required:** False

### **profile**

DASH profile for the output, such as HbbTV.

Valid values:

- **NONE** - the output doesn't use a DASH profile.
- **HBBTV\_1\_5** - the output is HbbTV-compliant.

**Type:** string

**Required:** False

**Values:** NONE | HBBTV\_1\_5

### **manifestLayout**

Determines the position of some tags in the manifest.

Options:

- **FULL** - elements like `SegmentTemplate` and `ContentProtection` are included in each `Representation`.
- **COMPACT** - duplicate elements are combined and presented at the `AdaptationSet` level.

**Type:** string

**Required:** False

**Values:** FULL | COMPACT

### **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`.

- **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`.
- **NUMBER\_WITH\_DURATION** - The `$Number$` variable is used in the `media` URL and a `duration` attribute is added to the segment template. The `SegmentTimeline` object is removed from the representation.
- **TIME\_WITH\_TIMELINE** - The `$Time$` variable is used in the `media` URL. The value of this variable is the timestamp of when the segment starts. A full `SegmentTimeline` object is presented in each `SegmentTemplate`.

**Type:** string

**Required:** False

**Values:** NUMBER\_WITH\_TIMELINE | TIME\_WITH\_TIMELINE | NUMBER\_WITH\_DURATION

### **minUpdatePeriodSeconds**

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

**Type:** integer

**Required:** False

### **minBufferTimeSeconds**

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

**Type:** integer  
**Required:** False

### encryption

Parameters for encrypting content.

**Type:** [DashEncryption](#) (p. 38)  
**Required:** False

### streamSelection

Limitations for outputs from the endpoint, based on the video bitrate.

**Type:** [StreamSelection](#) (p. 52)  
**Required:** False

### 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 type string  
**Required:** False  
**Values:** ADS

### suggestedPresentationDelaySeconds

Amount of time (in seconds) that the player should be from the live point at the end of the manifest.

**Type:** integer  
**Required:** False

### adTriggers

The SCTE-35 message types that MediaPackage treats as ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** Array of type string  
**Required:** False

### adsOnDeliveryRestrictions

The flags on SCTE-35 segmentation descriptors that have to be present for MediaPackage to insert ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** [AdsOnDeliveryRestrictions](#) (p. 35)  
**Required:** False

## HlsEncryption

Holds encryption information so that access to the content can be controlled by a DRM solution.

### repeatExtXKey

Repeat the EXT-X-KEY directive for every media segment. This might result in an increase in client requests to the DRM server.

**Type:** boolean  
**Required:** False

### constantInitializationVector

A 128-bit, 16-byte hex value represented by a 32-character string, used in conjunction with the key for encrypting blocks.

**Type:** string  
**Required:** False

### keyRotationIntervalSeconds

Number of seconds before AWS Elemental MediaPackage rotates to a new key. By default, rotation is set to 60 seconds. Set to 0 to disable key rotation.

**Type:** integer  
**Required:** False

### encryptionMethod

HLS encryption type.

**Type:** string  
**Required:** False  
**Values:** AES\_128 | SAMPLE\_AES

### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider \(p. 51\)](#)  
**Required:** True

## HlsManifest

A HTTP Live Streaming (HLS) manifest configuration on a CMAF endpoint.

### adMarkers

Controls how ad markers are included in the packaged endpoint. Valid values are `none`, `passthrough`, or `scte35_enhanced`.

- **NONE** - omits all SCTE-35 ad markers from the output.
- **PASSTHROUGH** - creates a copy in the output of the SCTE-35 ad markers (comments) taken directly from the input manifest.

- **SCTE35\_ENHANCED** - generates ad markers and blackout tags in the output based on the SCTE-35 messages from the input manifest.

**Type:** string  
**Required:** False  
**Values:** NONE | SCTE35\_ENHANCED | PASSTHROUGH

### **playlistWindowSeconds**

Time window (in seconds) contained in each parent manifest.

**Type:** integer  
**Required:** False

### **manifestName**

A short string that's appended to the end of the endpoint URL to create a unique path to this endpoint. The manifestName on the HLSManifest object overrides the manifestName you provided on the originEndpoint object.

**Type:** string  
**Required:** False

### **programDateTimeIntervalSeconds**

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify. Additionally, ID3Timed metadata messages are generated every 5 seconds starting when the content was ingested.

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

Omit this attribute or enter 0 to indicate that the EXT-X-PROGRAM-DATE-TIME tags are not included in the manifest.

**Type:** integer  
**Required:** False

### **playlistType**

When specified as either `event` or `vod`, a corresponding EXT-X-PLAYLIST-TYPE entry is included in the media playlist. Indicates if the playlist is live to VOD content.

**Type:** string  
**Required:** False  
**Values:** NONE | EVENT | VOD

### **id**

The manifest ID is required and must be unique within the OriginEndpoint. The ID can't be changed after the endpoint is created.

**Type:** string  
**Required:** True

### **includeIframeOnlyStream**

Applies to stream sets with a single video track only. When true, the stream set includes an additional I-frame only stream, along with the other tracks. If false, this extra stream is not included.

**Type:** boolean  
**Required:** False

### **url**

The URL that's used to request this manifest from this endpoint.

**Type:** string  
**Required:** False

## **HlsManifestCreateOrUpdateParameters**

Parameters for creating an HTTP Live Streaming (HLS) manifest configuration on a CMAF endpoint.

### **adMarkers**

Controls how ad markers are included in the packaged endpoint. Valid values are `none`, `passthrough`, or `scte35_enhanced`.

- **NONE** - omits all SCTE-35 ad markers from the output.
- **PASSTHROUGH** - creates a copy in the output of the SCTE-35 ad markers (comments) taken directly from the input manifest.
- **SCTE35\_ENHANCED** - generates ad markers and blackout tags in the output based on the SCTE-35 messages from the input manifest.

**Type:** string  
**Required:** False  
**Values:** NONE | SCTE35\_ENHANCED | PASSTHROUGH

### **playlistWindowSeconds**

Time window (in seconds) contained in each parent manifest.

**Type:** integer  
**Required:** False

### **manifestName**

A short string that's appended to the end of the endpoint URL to create a unique path to this endpoint. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

**Type:** string  
**Required:** False

### **programDateTimeIntervalSeconds**

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify. Additionally, ID3Timed metadata messages are generated every 5 seconds starting when the content was ingested.

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

Omit this attribute or enter 0 to indicate that the EXT-X-PROGRAM-DATE-TIME tags are not included in the manifest.

**Type:** integer  
**Required:** False

### playlistType

When specified as either `event` or `vod`, a corresponding EXT-X-PLAYLIST-TYPE entry is included in the media playlist. Indicates if the playlist is live to VOD content.

**Type:** string  
**Required:** False  
**Values:** NONE | EVENT | VOD

### id

The manifest ID is required and must be unique within the OriginEndpoint. The ID can't be changed after the endpoint is created.

**Type:** string  
**Required:** True

### includeIframeOnlyStream

Applies to stream sets with a single video track only. When true, the stream set includes an additional I-frame only stream, along with the other tracks. If false, this extra stream is not included.

**Type:** boolean  
**Required:** False

### adTriggers

The SCTE-35 message types that MediaPackage treats as ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** Array of type string  
**Required:** False

### adsOnDeliveryRestrictions

The flags on SCTE-35 segmentation descriptors that have to be present for MediaPackage to insert ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** [AdsOnDeliveryRestrictions \(p. 35\)](#)  
**Required:** False

## HlsPackage

Parameters for Apple HLS packaging.

### **useAudioRenditionGroup**

When true, AWS Elemental 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:** False

### **segmentDurationSeconds**

Duration (in seconds) of each fragment. Actual fragments are rounded to the nearest multiple of the source fragment duration.

**Type:** integer  
**Required:** False

### **adMarkers**

Controls how ad markers are included in the packaged endpoint. Valid values are `none`, `passthrough`, or `scte35_enhanced`.

- **NONE** - omits all SCTE-35 ad markers from the output.
- **PASSTHROUGH** - creates a copy in the output of the SCTE-35 ad markers (comments) taken directly from the input manifest.
- **SCTE35\_ENHANCED** - generates ad markers and blackout tags in the output based on the SCTE-35 messages from the input manifest.

**Type:** string  
**Required:** False  
**Values:** NONE | SCTE35\_ENHANCED | PASSTHROUGH

### **encryption**

Parameters for encrypting content.

**Type:** [HlsEncryption \(p. 41\)](#)  
**Required:** False

### **playlistWindowSeconds**

Time window (in seconds) contained in each parent manifest.

**Type:** integer  
**Required:** False

### **programDateTimeIntervalSeconds**

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify. Additionally, ID3Timed metadata messages are generated every 5 seconds starting when the content was ingested.

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



Omit this attribute or enter 0 to indicate that the EXT-X-PROGRAM-DATE-TIME tags are not included in the manifest.

**Type:** integer  
**Required:** False

### playlistType

When specified as either `event` or `vod`, a corresponding EXT-X-PLAYLIST-TYPE entry is included in the media playlist. Indicates if the playlist is live to VOD content.

**Type:** string  
**Required:** False  
**Values:** NONE | EVENT | VOD

### streamSelection

Limitations for outputs from the endpoint, based on the video bitrate.

**Type:** [StreamSelection \(p. 52\)](#)  
**Required:** False

### includeIframeOnlyStream

Only applies to stream sets with a single video track. When true, the stream set includes an additional I-frame only stream, along with the other tracks. If false, this extra stream is not included.

**Type:** boolean  
**Required:** False

### adTriggers

The SCTE-35 message types that MediaPackage treats as ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** Array of type string  
**Required:** False

### adsOnDeliveryRestrictions

The flags on SCTE-35 segmentation descriptors that have to be present for MediaPackage to insert ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** [AdsOnDeliveryRestrictions \(p. 35\)](#)  
**Required:** False

## MssEncryption

Holds encryption information so that access to the content can be controlled by a DRM solution.

### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 51)  
**Required:** True

## MssPackage

Parameters for Microsoft Smooth Streaming packaging.

### **manifestWindowSeconds**

Time window (in seconds) contained in each manifest.

**Type:** integer  
**Required:** False

### **segmentDurationSeconds**

Duration (in seconds) of each fragment. Actual fragments are rounded to the nearest multiple of the source fragment duration.

**Type:** integer  
**Required:** False

### **encryption**

Parameters for encrypting content.

**Type:** [MssEncryption](#) (p. 46)  
**Required:** False

### **streamSelection**

Limitations for outputs from the endpoint, based on the video bitrate.

**Type:** [StreamSelection](#) (p. 52)  
**Required:** False

## OriginEndpoint

OriginEndpoint configuration.

### **startoverWindowSeconds**

Maximum duration (seconds) of content to retain for startover playback. A 0 indicates that startover playback is disabled for this endpoint.

**Type:** integer  
**Required:** False

### **manifestName**

A short string that's appended to the end of the endpoint URL to create a unique path to this endpoint.

**Type:** string  
**Required:** False

### **description**

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

**Type:** string  
**Required:** False

### **dashPackage**

Parameters for DASH packaging.

**Type:** [DashPackage \(p. 38\)](#)  
**Required:** False

### **whitelist**

The IP addresses that can access this endpoint.

**Type:** Array of type string  
**Required:** False

### **cmfPackage**

Parameters for CMAF packaging.

**Type:** [CmafPackage \(p. 36\)](#)  
**Required:** False

### **hlsPackage**

Parameters for Apple HLS packaging.

**Type:** [HlsPackage \(p. 44\)](#)  
**Required:** False

### **url**

The URL that's used to request content from this endpoint.

**Type:** string  
**Required:** False

### **tags**

The tags assigned to the endpoint.

**Type:** [Tags \(p. 52\)](#)  
**Required:** False

### **timeDelaySeconds**

Minimum duration (seconds) of delay to enforce on the playback of live content. A 0 indicates that there is no time delay in effect for this endpoint

**Type:** integer

**Required:** False

#### **id**

The endpoint identifier.

**Type:** string

**Required:** False

#### **arn**

The endpoint's unique system-generated resource name, based on the AWS record.

**Type:** string

**Required:** False

#### **channelId**

The ID of the channel associated with this endpoint.

**Type:** string

**Required:** False

#### **mssPackage**

Parameters for Microsoft Smooth Streaming packaging.

**Type:** [MssPackage](#) (p. 47)

**Required:** False

## OriginEndpointCreateParameters

OriginEndpoint configuration.

#### **startoverWindowSeconds**

Maximum duration (seconds) of content to retain for startover playback. Omit this attribute or enter 0 to indicate that startover playback is disabled for this endpoint.

**Type:** integer

**Required:** False

#### **timeDelaySeconds**

Minimum duration (seconds) of delay to enforce on the playback of live content. Omit this attribute or enter 0 to indicate that there is no time delay in effect for this endpoint

**Type:** integer

**Required:** False

#### **manifestName**

A short string that's appended to the end of the endpoint URL to create a unique path to this endpoint.

**Type:** string

**Required:** False

### **description**

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

**Type:** string

**Required:** False

### **dashPackage**

Parameters for DASH packaging.

**Type:** [DashPackage \(p. 38\)](#)

**Required:** False

### **id**

The endpoint ID is required and must be unique for your account in this region. The ID can't be changed after the endpoint is created.

**Type:** string

**Required:** True

### **whitelist**

The IP addresses that can access this endpoint.

**Type:** Array of type string

**Required:** False

### **cmfPackage**

Parameters for Common Media Application Format (CMAF) packaging.

**Type:** [CmafPackageCreateOrUpdateParameters \(p. 37\)](#)

**Required:** False

### **channelId**

The ID of the channel associated with this endpoint.

**Type:** string

**Required:** True

### **hlsPackage**

Parameters for Apple HLS packaging.

**Type:** [HlsPackage \(p. 44\)](#)

**Required:** False

### **mssPackage**

Parameters for Microsoft Smooth Streaming packaging.

**Type:** [MssPackage \(p. 47\)](#)  
**Required:** False

### tags

The tags to assign to the endpoint.

**Type:** [Tags \(p. 52\)](#)  
**Required:** False

## OriginEndpointList

A collection of OriginEndpoint records.

### originEndpoints

List of endpoints that are configured on this account and the channel that you specified in the request parameters.

**Type:** Array of type [OriginEndpoint \(p. 47\)](#)  
**Required:** False

### nextToken

Pagination token. Use this token to request the next page of channel results.

**Type:** string  
**Required:** False

## SpekeKeyProvider

Keyprovider settings for DRM.

### resourceId

Unique identifier for this endpoint, as it is configured in the key provider service.

**Type:** string  
**Required:** True

### certificateArn

The Amazon Resource Name (ARN) for the certificate that you imported to AWS Certificate Manager to add content key encryption to this endpoint. For this feature to work, your DRM key provider must support content key encryption.

**Type:** string  
**Required:** False

### systemIds

List of unique identifiers for the DRM systems to use, as defined in the CPIX specification.

**Type:** Array of type string  
**Required:** True

### **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 AWS Elemental MediaPackage to assume the role, and it must have a sufficient permissions policy to allow access to the specific key retrieval URL. Valid format: `arn:aws:iam::{accountID}:role/{name}`

**Type:** string  
**Required:** True

### **url**

URL for the key provider's key retrieval API endpoint. Must start with `https://`.

**Type:** string  
**Required:** True

## StreamSelection

Limitations for outputs from the endpoint, based on the video bitrate.

### **streamOrder**

Order in which the different video bitrates are presented to the player.

**Type:** string  
**Required:** False  
**Values:** ORIGINAL | VIDEO\_BITRATE\_ASCENDING | VIDEO\_BITRATE\_DESCENDING

### **maxVideoBitsPerSecond**

The upper limit of the bitrates that this endpoint serves. If the video track exceeds this threshold, then AWS Elemental MediaPackage excludes it from output. If you don't specify a value, it defaults to 2147483647 bits per second.

**Type:** integer  
**Required:** False

### **minVideoBitsPerSecond**

The lower limit of the bitrates that this endpoint serves. If the video track is below this threshold, then AWS Elemental MediaPackage excludes it from output. If you don't specify a value, it defaults to 0 bits per second.

**Type:** integer  
**Required:** False

## Tags

A collection of tags associated with a resource.

- **Property:** "*key1*": "*value1*"
- **Type:** string
- **Required:** True

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

```
{  
  "Key1": "Value1",  
  "Key2": "Value2"  
}
```

### key-value pairs

**Type:** string

## See Also

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

### ListOriginEndpoints

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

### CreateOriginEndpoint

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

## Origin\_endpoints id

### URI

/origin\_endpoints/*id*



## HTTP Methods

### GET

Operation ID: DescribeOriginEndpoint

Provides details about an endpoint.

#### AWS CLI Request Syntax

```
aws mediapackage describe-origin-endpoint --id <endpointId>
```

#### Path Parameters

Name	Type	Required	Description
<i>id</i>	String	True	Identifier for the object that you are working on.

#### Responses

Status Code	Response Model	Description
200	<a href="#">OriginEndpoint (p. 60)</a>	200 OK response  Endpoint details are returned successfully.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response

Status Code	Response Model	Description
503	None	<p>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</p> <p>Service unavailable response</p> <p>AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.</p>

## PUT

Operation ID: UpdateOriginEndpoint

Updates a specific endpoint. When you submit the request to update an endpoint, include all necessary attributes in the request, even the ones that aren't being updated. If you send only the updated attributes, then all modifiable attributes that weren't specifically included in the request will reset to default values. For example, if you are using a 30 second time delay and submit a request to only update the endpoint description, then the time delay will update to zero (disabled). We recommend that you submit a GET request to obtain the endpoint's existing attributes and submit an updated version of the GET response body when you are updating an endpoint.

You can't change the `id` attribute or any other system-generated attributes.

### AWS CLI Request Syntax

```
aws mediapackage update-origin-endpoint
--id <endpointId>
--dash-package | --hls-package | --mss-package} <packagingSettings>
[--description <value>]
[--manifest-name <value>]
[--startover-window-seconds <value>]
[--time-delay-seconds <value>]
[--whitelist <value>]
```

For nested parameters, such as those for `packagingSettings`, you can reference a JSON file `file://<fileName>.json` that holds all of the attributes.

### Path Parameters

Name	Type	Required	Description
<code>id</code>	String	True	Identifier for the object that you are working on.

### Responses

Status Code	Response Model	Description
200	<a href="#">OriginEndpoint (p. 60)</a>	200 OK response

Status Code	Response Model	Description
403	None	<p>The endpoint is updated successfully.</p> <p>403 Forbidden response</p> <p>AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.</p>
404	None	<p>404 Not Found response</p> <p>AWS Elemental MediaPackage did not find a representation of the target resource.</p>
422	None	<p>422 Unprocessable Entity response</p> <p>AWS Elemental MediaPackage could not process the instructions in the body of the request.</p>
429	None	<p>429 Too Many Requests response</p> <p>Too many requests have been sent in a given amount of time.</p>
500	None	<p>500 Internal Server Error response</p> <p>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</p>
503	None	<p>Service unavailable response</p> <p>AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.</p>

## DELETE

Operation ID: DeleteOriginEndpoint

Permanently deletes an endpoint.

### AWS CLI Request Syntax

```
aws mediapackage delete-origin-endpoint --id <endpointId>
```

### Path Parameters

Name	Type	Required	Description
<i>id</i>	String	True	Identifier for the object that you are working on.

### Responses

Status Code	Response Model	Description
202	None	202 Accepted response  AWS Elemental MediaPackage accepted the request but has not processed it yet.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.
503	None	Service unavailable response  AWS Elemental MediaPackage can't currently complete the request, usually because of

Status Code	Response Model	Description
		a temporary overload or maintenance.

## Schemas

### Request Bodies

#### Example PUT

```
{
  "startoverWindowSeconds": integer,
  "timeDelaySeconds": integer,
  "manifestName": "string",
  "description": "string",
  "dashPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "profile": enum,
    "manifestLayout": enum,
    "segmentTemplateFormat": enum,
    "minUpdatePeriodSeconds": integer,
    "minBufferTimeSeconds": integer,
    "encryption": {
      "keyRotationIntervalSeconds": integer,
      "spekeKeyProvider": {
        "resourceId": "string",
        "certificateArn": "string",
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    }
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "periodTriggers": [
    enum
  ],
  "suggestedPresentationDelaySeconds": integer,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"whitelist": [
  "string"
],
"cmfPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "keyRotationIntervalSeconds": integer,
    "spekeKeyProvider": {
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [

```

```

        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "hlsManifests": [
    {
      "adMarkers": enum,
      "playlistWindowSeconds": integer,
      "manifestName": "string",
      "programDateTimeIntervalSeconds": integer,
      "playlistType": enum,
      "id": "string",
      "includeIframeOnlyStream": boolean,
      "adTriggers": [
        enum
      ],
      "adsOnDeliveryRestrictions": enum
    }
  ],
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "segmentPrefix": "string"
},
"hlsPackage": {
  "useAudioRenditionGroup": boolean,
  "segmentDurationSeconds": integer,
  "adMarkers": enum,
  "encryption": {
    "repeatExtXKey": boolean,
    "constantInitializationVector": "string",
    "keyRotationIntervalSeconds": integer,
    "encryptionMethod": enum,
    "spekeKeyProvider": {
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
    },
    "roleArn": "string",
    "url": "string"
  }
},
"playlistWindowSeconds": integer,
"programDateTimeIntervalSeconds": integer,
"playlistType": enum,
"streamSelection": {
  "streamOrder": enum,
  "maxVideoBitsPerSecond": integer,
  "minVideoBitsPerSecond": integer
},
"includeIframeOnlyStream": boolean,
"adTriggers": [
  enum
],
"adsOnDeliveryRestrictions": enum
},
"mssPackage": {
  "manifestWindowSeconds": integer,
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {

```

```

    "resourceId": "string",
    "certificateArn": "string",
    "systemIds": [
      "string"
    ],
    "roleArn": "string",
    "url": "string"
  }
},
"streamSelection": {
  "streamOrder": enum,
  "maxVideoBitsPerSecond": integer,
  "minVideoBitsPerSecond": integer
}
}
}

```

## Response Bodies

### Example OriginEndpoint

```

{
  "startoverWindowSeconds": integer,
  "manifestName": "string",
  "description": "string",
  "dashPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "profile": enum,
    "manifestLayout": enum,
    "segmentTemplateFormat": enum,
    "minUpdatePeriodSeconds": integer,
    "minBufferTimeSeconds": integer,
    "encryption": {
      "keyRotationIntervalSeconds": integer,
      "spekeKeyProvider": {
        "resourceId": "string",
        "certificateArn": "string",
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    },
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "periodTriggers": [
    enum
  ],
  "suggestedPresentationDelaySeconds": integer,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"whitelist": [
  "string"
],
"cmafPackage": {
  "segmentDurationSeconds": integer,

```

```

"encryption": {
  "keyRotationIntervalSeconds": integer,
  "spekeKeyProvider": {
    "resourceId": "string",
    "certificateArn": "string",
    "systemIds": [
      "string"
    ],
    "roleArn": "string",
    "url": "string"
  }
},
"hlsManifests": [
  {
    "adMarkers": enum,
    "playlistWindowSeconds": integer,
    "manifestName": "string",
    "programDateTimeIntervalSeconds": integer,
    "playlistType": enum,
    "id": "string",
    "includeIframeOnlyStream": boolean,
    "url": "string"
  }
],
"streamSelection": {
  "streamOrder": enum,
  "maxVideoBitsPerSecond": integer,
  "minVideoBitsPerSecond": integer
},
"segmentPrefix": "string"
},
"hlsPackage": {
  "useAudioRenditionGroup": boolean,
  "segmentDurationSeconds": integer,
  "adMarkers": enum,
  "encryption": {
    "repeatExtXKey": boolean,
    "constantInitializationVector": "string",
    "keyRotationIntervalSeconds": integer,
    "encryptionMethod": enum,
    "spekeKeyProvider": {
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "playlistWindowSeconds": integer,
  "programDateTimeIntervalSeconds": integer,
  "playlistType": enum,
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "includeIframeOnlyStream": boolean,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"url": "string",
"tags": {

```



```

    },
    "timeDelaySeconds": integer,
    "id": "string",
    "arn": "string",
    "channelId": "string",
    "mssPackage": {
      "manifestWindowSeconds": integer,
      "segmentDurationSeconds": integer,
      "encryption": {
        "spekeKeyProvider": {
          "resourceId": "string",
          "certificateArn": "string",
          "systemIds": [
            "string"
          ],
          "roleArn": "string",
          "url": "string"
        }
      }
    },
    "streamSelection": {
      "streamOrder": enum,
      "maxVideoBitsPerSecond": integer,
      "minVideoBitsPerSecond": integer
    }
  }
}

```

## Properties

### AdsOnDeliveryRestrictions

This setting allows the delivery restriction flags on SCTE-35 segmentation descriptors to determine whether a message signals an ad.

- **NONE** - no SCTE-35 messages become ads.
- **RESTRICTED** - SCTE-35 messages of the types specified in AdTriggers that contain delivery restrictions will be treated as ads.
- **UNRESTRICTED** - SCTE-35 messages of the types specified in AdTriggers that do not contain delivery restrictions will be treated as ads.
- **BOTH** - all SCTE-35 messages of the types specified in AdTriggers will be treated as ads.

For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

NONE  
RESTRICTED  
UNRESTRICTED  
BOTH

### CmafEncryption

Holds encryption information so that access to the content can be controlled by a DRM solution.

#### keyRotationIntervalSeconds

Number of seconds before AWS Elemental MediaPackage rotates to a new key. By default, rotation is set to 60 seconds. Set to 0 to disable key rotation.

**Type:** integer  
**Required:** False

### **spekeKeyProvider**

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 77)  
**Required:** True

## **CmafPackage**

Parameters for Common Media Application Format (CMAF) packaging.

### **segmentDurationSeconds**

Duration (in seconds) of each segment. Actual segments are rounded to the nearest multiple of the source segment duration.

**Type:** integer  
**Required:** False

### **encryption**

Parameters for encrypting content.

**Type:** [CmafEncryption](#) (p. 62)  
**Required:** False

### **hlsManifests**

A list of HLS manifest configurations available from this endpoint.

**Type:** Array of type [HlsManifest](#) (p. 68)  
**Required:** False

### **streamSelection**

Limitations for outputs from the endpoint, based on the video bitrate.

**Type:** [StreamSelection](#) (p. 78)  
**Required:** False

### **segmentPrefix**

An optional custom string that is prepended to the name of each segment. If not specified, the segment prefix defaults to the ChannelId.

**Type:** string  
**Required:** False

## CmafPackageCreateOrUpdateParameters

Parameters for creating an endpoint that supports Common Media Application Format (CMAF) packaging.

### segmentDurationSeconds

Duration (in seconds) of each segment. Actual segments are rounded to the nearest multiple of the source segment duration.

**Type:** integer

**Required:** False

### encryption

Parameters for encrypting content.

**Type:** [CmafEncryption](#) (p. 62)

**Required:** False

### hlsManifests

A list of HLS manifest configurations available from this endpoint.

**Type:** Array of type [HlsManifestCreateOrUpdateParameters](#) (p. 69)

**Required:** False

### streamSelection

Limitations for outputs from the endpoint, based on the video bitrate.

**Type:** [StreamSelection](#) (p. 78)

**Required:** False

### segmentPrefix

An optional custom string that is prepended to the name of each segment. If not specified, the segment prefix defaults to the ChannelId.

**Type:** string

**Required:** False

## DashEncryption

Holds encryption information so that access to the content can be controlled by a DRM solution.

### keyRotationIntervalSeconds

Number of seconds before AWS Elemental MediaPackage rotates to a new key. By default, rotation is set to 60 seconds. Set to 0 to disable key rotation.

**Type:** integer

**Required:** False

### **spekeKeyProvider**

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 77)

**Required:** True

## DashPackage

Parameters for DASH packaging.

### **manifestWindowSeconds**

Time window (in seconds) contained in each manifest.

**Type:** integer

**Required:** False

### **segmentDurationSeconds**

Duration (in seconds) of each fragment. Actual fragments are rounded to the nearest multiple of the source fragment duration.

**Type:** integer

**Required:** False

### **profile**

DASH profile for the output, such as HbbTV.

Valid values:

- **NONE** - the output doesn't use a DASH profile.
- **HBBTV\_1\_5** - the output is HbbTV-compliant.

**Type:** string

**Required:** False

**Values:** NONE | HBBTV\_1\_5

### **manifestLayout**

Determines the position of some tags in the manifest.

Options:

- **FULL** - elements like `SegmentTemplate` and `ContentProtection` are included in each `Representation`.
- **COMPACT** - duplicate elements are combined and presented at the `AdaptationSet` level.

**Type:** string

**Required:** False

**Values:** FULL | COMPACT

### 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.

- **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.
- **NUMBER\_WITH\_DURATION** - The \$Number\$ variable is used in the media URL and a duration attribute is added to the segment template. The SegmentTimeline object is removed from the representation.
- **TIME\_WITH\_TIMELINE** - The \$Time\$ variable is used in the media URL. The value of this variable is the timestamp of when the segment starts. A full SegmentTimeline object is presented in each SegmentTemplate.

**Type:** string

**Required:** False

**Values:** NUMBER\_WITH\_TIMELINE | TIME\_WITH\_TIMELINE | NUMBER\_WITH\_DURATION

### minUpdatePeriodSeconds

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

**Type:** integer

**Required:** False

### minBufferTimeSeconds

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

**Type:** integer

**Required:** False

### encryption

Parameters for encrypting content.

**Type:** [DashEncryption \(p. 64\)](#)

**Required:** False

### streamSelection

Limitations for outputs from the endpoint, based on the video bitrate.

**Type:** [StreamSelection \(p. 78\)](#)

**Required:** False

### 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 type string  
**Required:** False  
**Values:** ADS

### **suggestedPresentationDelaySeconds**

Amount of time (in seconds) that the player should be from the live point at the end of the manifest.

**Type:** integer  
**Required:** False

### **adTriggers**

The SCTE-35 message types that MediaPackage treats as ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** Array of type string  
**Required:** False

### **adsOnDeliveryRestrictions**

The flags on SCTE-35 segmentation descriptors that have to be present for MediaPackage to insert ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** [AdsOnDeliveryRestrictions](#) (p. 62)  
**Required:** False

## HlsEncryption

Holds encryption information so that access to the content can be controlled by a DRM solution.

### **repeatExtXKey**

Repeat the EXT-X-KEY directive for every media segment. This might result in an increase in client requests to the DRM server.

**Type:** boolean  
**Required:** False

### **constantInitializationVector**

A 128-bit, 16-byte hex value represented by a 32-character string, used in conjunction with the key for encrypting blocks.

**Type:** string  
**Required:** False

### **keyRotationIntervalSeconds**

Number of seconds before AWS Elemental MediaPackage rotates to a new key. By default, rotation is set to 60 seconds. Set to 0 to disable key rotation.

**Type:** integer  
**Required:** False

### encryptionMethod

HLS encryption type.

**Type:** string  
**Required:** False  
**Values:** AES\_128 | SAMPLE\_AES

### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 77)  
**Required:** True

## HlsManifest

A HTTP Live Streaming (HLS) manifest configuration on a CMAF endpoint.

### adMarkers

Controls how ad markers are included in the packaged endpoint. Valid values are `none`, `passthrough`, or `scte35_enhanced`.

- **NONE** - omits all SCTE-35 ad markers from the output.
- **PASSTHROUGH** - creates a copy in the output of the SCTE-35 ad markers (comments) taken directly from the input manifest.
- **SCTE35\_ENHANCED** - generates ad markers and blackout tags in the output based on the SCTE-35 messages from the input manifest.

**Type:** string  
**Required:** False  
**Values:** NONE | SCTE35\_ENHANCED | PASSTHROUGH

### playlistWindowSeconds

Time window (in seconds) contained in each parent manifest.

**Type:** integer  
**Required:** False

### manifestName

A short string that's appended to the end of the endpoint URL to create a unique path to this endpoint. The `manifestName` on the `HLSManifest` object overrides the `manifestName` you provided on the `originEndpoint` object.

**Type:** string  
**Required:** False

### **programDateTimeIntervalSeconds**

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify. Additionally, ID3Timed metadata messages are generated every 5 seconds starting when the content was ingested.

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

Omit this attribute or enter 0 to indicate that the EXT-X-PROGRAM-DATE-TIME tags are not included in the manifest.

**Type:** integer  
**Required:** False

### **playlistType**

When specified as either `event` or `vod`, a corresponding EXT-X-PLAYLIST-TYPE entry is included in the media playlist. Indicates if the playlist is live to VOD content.

**Type:** string  
**Required:** False  
**Values:** NONE | EVENT | VOD

### **id**

The manifest ID is required and must be unique within the OriginEndpoint. The ID can't be changed after the endpoint is created.

**Type:** string  
**Required:** True

### **includeIframeOnlyStream**

Applies to stream sets with a single video track only. When true, the stream set includes an additional I-frame only stream, along with the other tracks. If false, this extra stream is not included.

**Type:** boolean  
**Required:** False

### **url**

The URL that's used to request this manifest from this endpoint.

**Type:** string  
**Required:** False

## **HlsManifestCreateOrUpdateParameters**

Parameters for creating an HTTP Live Streaming (HLS) manifest configuration on a CMAF endpoint.

### **adMarkers**

Controls how ad markers are included in the packaged endpoint. Valid values are `none`, `passthrough`, or `scte35_enhanced`.



- **NONE** - omits all SCTE-35 ad markers from the output.
- **PASSTHROUGH** - creates a copy in the output of the SCTE-35 ad markers (comments) taken directly from the input manifest.
- **SCTE35\_ENHANCED** - generates ad markers and blackout tags in the output based on the SCTE-35 messages from the input manifest.

**Type:** string

**Required:** False

**Values:** NONE | SCTE35\_ENHANCED | PASSTHROUGH

### **playlistWindowSeconds**

Time window (in seconds) contained in each parent manifest.

**Type:** integer

**Required:** False

### **manifestName**

A short string that's appended to the end of the endpoint URL to create a unique path to this endpoint. The manifestName on the HLSManifest object overrides the manifestName you provided on the originEndpoint object.

**Type:** string

**Required:** False

### **programDateTimeIntervalSeconds**

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify. Additionally, ID3Timed metadata messages are generated every 5 seconds starting when the content was ingested.

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

Omit this attribute or enter 0 to indicate that the EXT-X-PROGRAM-DATE-TIME tags are not included in the manifest.

**Type:** integer

**Required:** False

### **playlistType**

When specified as either `event` or `vod`, a corresponding EXT-X-PLAYLIST-TYPE entry is included in the media playlist. Indicates if the playlist is live to VOD content.

**Type:** string

**Required:** False

**Values:** NONE | EVENT | VOD

### **id**

The manifest ID is required and must be unique within the OriginEndpoint. The ID can't be changed after the endpoint is created.

**Type:** string  
**Required:** True

### **includeIframeOnlyStream**

Applies to stream sets with a single video track only. When true, the stream set includes an additional I-frame only stream, along with the other tracks. If false, this extra stream is not included.

**Type:** boolean  
**Required:** False

### **adTriggers**

The SCTE-35 message types that MediaPackage treats as ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** Array of type string  
**Required:** False

### **adsOnDeliveryRestrictions**

The flags on SCTE-35 segmentation descriptors that have to be present for MediaPackage to insert ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** [AdsOnDeliveryRestrictions](#) (p. 62)  
**Required:** False

## **HlsPackage**

Parameters for Apple HLS packaging.

### **useAudioRenditionGroup**

When true, AWS Elemental 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:** False

### **segmentDurationSeconds**

Duration (in seconds) of each fragment. Actual fragments are rounded to the nearest multiple of the source fragment duration.

**Type:** integer  
**Required:** False

### **adMarkers**

Controls how ad markers are included in the packaged endpoint. Valid values are none, passthrough, or scte35\_enhanced.

- **NONE** - omits all SCTE-35 ad markers from the output.
- **PASSTHROUGH** - creates a copy in the output of the SCTE-35 ad markers (comments) taken directly from the input manifest.
- **SCTE35\_ENHANCED** - generates ad markers and blackout tags in the output based on the SCTE-35 messages from the input manifest.

**Type:** string

**Required:** False

**Values:** NONE | SCTE35\_ENHANCED | PASSTHROUGH

## encryption

Parameters for encrypting content.

**Type:** [HlsEncryption \(p. 67\)](#)

**Required:** False

## playlistWindowSeconds

Time window (in seconds) contained in each parent manifest.

**Type:** integer

**Required:** False

## programDateTimeIntervalSeconds

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify. Additionally, ID3Timed metadata messages are generated every 5 seconds starting when the content was ingested.

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

Omit this attribute or enter 0 to indicate that the EXT-X-PROGRAM-DATE-TIME tags are not included in the manifest.

**Type:** integer

**Required:** False

## playlistType

When specified as either `event` or `vod`, a corresponding EXT-X-PLAYLIST-TYPE entry is included in the media playlist. Indicates if the playlist is live to VOD content.

**Type:** string

**Required:** False

**Values:** NONE | EVENT | VOD

## streamSelection

Limitations for outputs from the endpoint, based on the video bitrate.

**Type:** [StreamSelection \(p. 78\)](#)

**Required:** False

### **includeIframeOnlyStream**

Only applies to stream sets with a single video track. When true, the stream set includes an additional I-frame only stream, along with the other tracks. If false, this extra stream is not included.

**Type:** boolean  
**Required:** False

### **adTriggers**

The SCTE-35 message types that MediaPackage treats as ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** Array of type string  
**Required:** False

### **adsOnDeliveryRestrictions**

The flags on SCTE-35 segmentation descriptors that have to be present for MediaPackage to insert ad markers in the output manifest. For information about SCTE-35 in MediaPackage, see [SCTE-35 Message Options in AWS Elemental MediaPackage](#).

**Type:** [AdsOnDeliveryRestrictions](#) (p. 62)  
**Required:** False

## **MssEncryption**

Holds encryption information so that access to the content can be controlled by a DRM solution.

### **spekeKeyProvider**

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 77)  
**Required:** True

## **MssPackage**

Parameters for Microsoft Smooth Streaming packaging.

### **manifestWindowSeconds**

Time window (in seconds) contained in each manifest.

**Type:** integer  
**Required:** False

### **segmentDurationSeconds**

Duration (in seconds) of each fragment. Actual fragments are rounded to the nearest multiple of the source fragment duration.

**Type:** integer

**Required:** False

### **encryption**

Parameters for encrypting content.

**Type:** [MssEncryption \(p. 73\)](#)

**Required:** False

### **streamSelection**

Limitations for outputs from the endpoint, based on the video bitrate.

**Type:** [StreamSelection \(p. 78\)](#)

**Required:** False

## **OriginEndpoint**

OriginEndpoint configuration.

### **startoverWindowSeconds**

Maximum duration (seconds) of content to retain for startover playback. A 0 indicates that startover playback is disabled for this endpoint.

**Type:** integer

**Required:** False

### **manifestName**

A short string that's appended to the end of the endpoint URL to create a unique path to this endpoint.

**Type:** string

**Required:** False

### **description**

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

**Type:** string

**Required:** False

### **dashPackage**

Parameters for DASH packaging.

**Type:** [DashPackage \(p. 65\)](#)

**Required:** False

### **whitelist**

The IP addresses that can access this endpoint.

**Type:** Array of type string

**Required:** False

### **cmfPackage**

Parameters for CMAF packaging.

**Type:** [CmafPackage \(p. 63\)](#)

**Required:** False

### **hlsPackage**

Parameters for Apple HLS packaging.

**Type:** [HlsPackage \(p. 71\)](#)

**Required:** False

### **url**

The URL that's used to request content from this endpoint.

**Type:** string

**Required:** False

### **tags**

The tags assigned to the endpoint.

**Type:** [Tags \(p. 78\)](#)

**Required:** False

### **timeDelaySeconds**

Minimum duration (seconds) of delay to enforce on the playback of live content. A 0 indicates that there is no time delay in effect for this endpoint

**Type:** integer

**Required:** False

### **id**

The endpoint identifier.

**Type:** string

**Required:** False

### **arn**

The endpoint's unique system-generated resource name, based on the AWS record.

**Type:** string

**Required:** False

### **channelId**

The ID of the channel associated with this endpoint.

**Type:** string

**Required:** False

### **mssPackage**

Parameters for Microsoft Smooth Streaming packaging.

**Type:** [MssPackage \(p. 73\)](#)

**Required:** False

## OriginEndpointUpdateParameters

OriginEndpoint configuration

### **startoverWindowSeconds**

Maximum duration (seconds) of content to retain for startover playback. Enter 0 to indicate that startover playback is disabled for this endpoint.

**Type:** integer

**Required:** False

### **timeDelaySeconds**

Minimum duration (seconds) of delay to enforce on the playback of live content. Enter 0 to indicate that there is no time delay in effect for this endpoint.

**Type:** integer

**Required:** False

### **manifestName**

A short string that's appended to the end of the endpoint URL to create a unique path to this endpoint.

**Type:** string

**Required:** False

### **description**

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

**Type:** string

**Required:** False

### **dashPackage**

Parameters for DASH packaging.

**Type:** [DashPackage \(p. 65\)](#)

**Required:** False

### **whitelist**

The IP addresses that can access this endpoint.

**Type:** Array of type string

**Required:** False

### **cmfPackage**

Parameters for CMAF packaging.

**Type:** [CmfPackageCreateOrUpdateParameters \(p. 64\)](#)

**Required:** False

### **hlsPackage**

Parameters for Apple HLS packaging.

**Type:** [HlsPackage \(p. 71\)](#)

**Required:** False

### **mssPackage**

Parameters for Microsoft Smooth Streaming packaging.

**Type:** [MssPackage \(p. 73\)](#)

**Required:** False

## **SpekeKeyProvider**

Keyprovider settings for DRM.

### **resourceId**

Unique identifier for this endpoint, as it is configured in the key provider service.

**Type:** string

**Required:** True

### **certificateArn**

The Amazon Resource Name (ARN) for the certificate that you imported to AWS Certificate Manager to add content key encryption to this endpoint. For this feature to work, your DRM key provider must support content key encryption.

**Type:** string

**Required:** False

### **systemIds**

List of unique identifiers for the DRM systems to use, as defined in the CPIX specification.

**Type:** Array of type string

**Required:** True

### **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 AWS Elemental MediaPackage to assume the role, and it



must have a sufficient permissions policy to allow access to the specific key retrieval URL. Valid format: `arn:aws:iam::{accountID}:role/{name}`

**Type:** string  
**Required:** True

### url

URL for the key provider's key retrieval API endpoint. Must start with `https://`.

**Type:** string  
**Required:** True

## StreamSelection

Limitations for outputs from the endpoint, based on the video bitrate.

### streamOrder

Order in which the different video bitrates are presented to the player.

**Type:** string  
**Required:** False  
**Values:** ORIGINAL | VIDEO\_BITRATE\_ASCENDING | VIDEO\_BITRATE\_DESCENDING

### maxVideoBitsPerSecond

The upper limit of the bitrates that this endpoint serves. If the video track exceeds this threshold, then AWS Elemental MediaPackage excludes it from output. If you don't specify a value, it defaults to 2147483647 bits per second.

**Type:** integer  
**Required:** False

### minVideoBitsPerSecond

The lower limit of the bitrates that this endpoint serves. If the video track is below this threshold, then AWS Elemental MediaPackage excludes it from output. If you don't specify a value, it defaults to 0 bits per second.

**Type:** integer  
**Required:** False

## Tags

A collection of tags associated with a resource.

- **Property:** `"key1": "value1"`
- **Type:** string
- **Required:** True
- **Description:** A comma-separated list of tag key:value pairs that you define. For example:

```
{
```

```
"Key1": "Value1",  
"Key2": "Value2"  
}
```

### key-value pairs

**Type:** string

## See Also

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

### DescribeOriginEndpoint

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

### UpdateOriginEndpoint

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

### DeleteOriginEndpoint

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

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

## Tags resource-arn

Manage tags for AWS Elemental MediaPackage channels and endpoints. Tags are key-value pairs that you can associate with Amazon resources. MediaPackage offers tagging support for channel and endpoint resources. For information about tagging, see [Tagging Resources in AWS Elemental MediaPackage](#).

### URI

/tags/*resource-arn*

### HTTP Methods

#### GET

Operation ID: ListTagsForResource

Returns a list of the tags assigned to the specified resource (either a channel or endpoint).

#### Path Parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The Amazon Resource Name (ARN) for the channel or endpoint. You can get this from the response to any request to the resource.

#### Responses

Status Code	Response Model	Description
200	<a href="#">tagsModel (p. 82)</a>	200 OK response  The list of tags is returned successfully.

#### POST

Operation ID: TagResource

Adds tags to the specified channel or endpoint resource. You can specify one or more tags to add.

### Path Parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The Amazon Resource Name (ARN) for the channel or endpoint. You can get this from the response to any request to the resource.

### Responses

Status Code	Response Model	Description
204	None	The request was successful. There is no content in the response.

## DELETE

Operation ID: UntagResource

Removes tags from the specified channel or endpoint resource. You can specify one or more tags to remove.

### Path Parameters

Name	Type	Required	Description
<i>resource-arn</i>	String	True	The Amazon Resource Name (ARN) for the channel or endpoint. You can get this from the response to any request to the resource.

### Query Parameters

Name	Type	Required	Description
tagKeys	String	True	A comma-separated list of the tag keys to remove from the channel or endpoint.

### Responses

Status Code	Response Model	Description
204	None	The request was successful. There is no content in the response.

## Schemas

### Request Bodies

#### Example POST

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

### Response Bodies

#### Example tagsModel

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

## Properties

### tagsModel

The key:value pairs used in a tag.

#### tags

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

```
{  
  "Key1": "Value1",  
  "Key2": "Value2"  
}
```

**Type:** object

**Required:** True

## See Also

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

### ListTagsForResource

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

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

## TagResource

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

## UntagResource

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

# Document History

The following table describes important changes to this documentation.

- **API version: latest**

Change	Description	Date
Configurable SCTE-35 marker handling release	Document additional options that MediaPackage provides for configuring how SCTE-35 markers are treated in output manifests.	June 21, 2019
DASH number with duration release	Document additional DASH segment template format option.	May 29, 2019
Tagging release	Document how to add tags to resources.	March 4, 2019
DASH compact manifest and segment template format release	Document how to create a compacted manifest or change the format of the segmentTemplate information.	February 6, 2019
SPEKE content encryption release	Document the certificateARN that's required if you're using content key encryption with SPEKE.	November 8, 2018
Input redundancy release	Document rotating credentials for both ingest endpoints.	August 28, 2018
Correct resource URIs	Throughout the document, removed "prod/" from URIs.	July 24, 2018
Multi-period DASH release	Document how to create multiple periods in a DASH manifest.	July 18, 2018
CMAF endpoint release	Document how to create a Common Media Application Format (CMAF) endpoint.	May 3, 2018
New AWS Elemental MediaPackage service release	Initial documentation for the MediaPackage service.	November 27, 2017

# AWS Glossary

For the latest AWS terminology, see the [AWS Glossary](#) in the *AWS General Reference*.