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Welcome

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 ingest point to AWS Elemental MediaPackage. The endpoint is a part of the channel and is the egress 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.
Resources

The AWS Elemental MediaPackage REST API includes the following resources.

Topics
- Channels (p. 2)
- Channels id (p. 8)
- Channels id Credentials (p. 14)
- Origin_endpoints (p. 17)
- Origin_endpoints id (p. 33)

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>Pagination token from the GET list request. Use the token to fetch the next page of results.</td>
</tr>
<tr>
<td>maxResults</td>
<td>String</td>
<td>False</td>
<td>Maximum number of records to return.</td>
</tr>
</tbody>
</table>
## Responses

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

## POST

*Operation ID: CreateChannel*

Creates a channel to ingest content.
Once created, a channel provides static ingest 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

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Channel (p. 5)</td>
<td>200 OK response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The channel is created successfully.</td>
</tr>
<tr>
<td>422</td>
<td>None</td>
<td>422 Unprocessable Entity response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage could not process the instructions in the body of the request.</td>
</tr>
<tr>
<td>500</td>
<td>None</td>
<td>500 Internal Server Error response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</td>
</tr>
<tr>
<td>403</td>
<td>None</td>
<td>403 Forbidden response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.</td>
</tr>
<tr>
<td>503</td>
<td>None</td>
<td>Service unavailable response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage can't currently complete the request, usually because of</td>
</tr>
</tbody>
</table>
### Status Code

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>404</td>
<td>None</td>
<td>a temporary overload or maintenance.</td>
</tr>
<tr>
<td>404</td>
<td>None</td>
<td>404 Not Found response</td>
</tr>
<tr>
<td>429</td>
<td>None</td>
<td>AWS Elemental MediaPackage did not find a representation of the target resource.</td>
</tr>
<tr>
<td>429</td>
<td>None</td>
<td>429 Too Many Requests response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Too many requests have been sent in a given amount of time.</td>
</tr>
</tbody>
</table>

### Schemas

#### Request Bodies

**Example POST**

```json
{
  "description (p. 6)": "string",
  "id (p. 7)": "string"
}
```

#### Response Bodies

**Example ChannelList**

```json
{
  "channels (p. 7)": [
    {
      "description (p. 6)": "string",
      "id (p. 6)": "string",
      "hlsIngest (p. 6)": {
        "ingestEndpoints (p. 7)": [
          {
            "password (p. 7)": "string",
            "url (p. 7)": "string",
            "username (p. 7)": "string"
          }
        ],
        "arn (p. 6)": "string"
      }
    },
    "nextToken (p. 7)": "string"
  }
}
```

**Example Channel**

```json
{
  "description (p. 6)": "string",
  "id (p. 7)": "string"
}
```
Properties

Channel

description
An 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: False

hlsIngest
System-generated information about the channel.

Type: HlsIngest (p. 7)
Required: False

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

Type: string
Required: False

ChannelCreateParameters

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

ChannelList
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
ingestEndpoints
The ingest URL where the source stream should be sent.

Type: Array of type IngestEndpoint (p. 7)
Required: False

IngestEndpoint
password
The system-generated password for WebDAV ingest authentication.

Type: string
Required: False

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

Type: string
Required: False

username
The system-generated username for WebDAV ingest authentication.

Type: string
Required: False
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**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>Identifier for the object that you are working on.</td>
</tr>
</tbody>
</table>

**Responses**

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Channel (p. 12)</td>
<td>200 OK response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Channel details are returned successfully.</td>
</tr>
<tr>
<td>422</td>
<td>None</td>
<td>422 Unprocessable Entity response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage could not process the instructions in the body of the request.</td>
</tr>
<tr>
<td>500</td>
<td>None</td>
<td>500 Internal Server Error response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</td>
</tr>
<tr>
<td>403</td>
<td>None</td>
<td>403 Forbidden response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage cannot authorize the request,</td>
</tr>
</tbody>
</table>
## HTTP Methods

### Status Code | Response Model | Description
--- | --- | ---
503 | None | Service unavailable response possibly due to insufficient authentication credentials.

### 404 | None | 404 Not Found response AWS Elemental MediaPackage did not find a representation of the target resource.

### 429 | None | 429 Too Many Requests response Too many requests have been sent in a given amount of time.

## 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**

```bash
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**
--- | --- | --- | ---
id | String | True | Identifier for the object that you are working on.

### Responses

**Status Code | Response Model | Description**
--- | --- | ---
200 | `Channel (p. 12)` | 200 OK response The channel is updated successfully.
### DELETE

Operation ID: DeleteChannel

Permanently deletes a channel.

**AWS CLI Request Syntax**

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>Identifier for the object that you are working on.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>202</td>
<td>None</td>
<td>202 Accepted response&lt;br&gt;AWS Elemental MediaPackage accepted the request but has not processed it yet.</td>
</tr>
<tr>
<td>422</td>
<td>None</td>
<td>422 Unprocessable Entity response&lt;br&gt;AWS Elemental MediaPackage could not process the instructions in the body of the request.</td>
</tr>
<tr>
<td>500</td>
<td>None</td>
<td>500 Internal Server Error response&lt;br&gt;An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</td>
</tr>
<tr>
<td>403</td>
<td>None</td>
<td>403 Forbidden response&lt;br&gt;AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.</td>
</tr>
<tr>
<td>503</td>
<td>None</td>
<td>Service unavailable response&lt;br&gt;AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.</td>
</tr>
<tr>
<td>404</td>
<td>None</td>
<td>404 Not Found response&lt;br&gt;AWS Elemental MediaPackage did not find a representation of the target resource.</td>
</tr>
<tr>
<td>429</td>
<td>None</td>
<td>429 Too Many Requests response&lt;br&gt;</td>
</tr>
</tbody>
</table>


### Schemas

#### Request Bodies

**Example PUT**

```json
{
    "description (p. 13)": "string"
}
```

#### Response Bodies

**Example Channel**

```json
{
    "description (p. 12)": "string",
    "id (p. 12)": "string",
    "hlsIngest (p. 13)": {
        "ingestEndpoints (p. 13)": [
            {
                "password (p. 13)": "string",
                "url (p. 13)": "string",
                "username (p. 13)": "string"
            }
        ],
        "arn (p. 13)": "string"
    }
}
```

### Properties

#### Channel

**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:** False
hlsIngest
System-generated information about the channel.

Type: HlsIngest (p. 13)
Required: False

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

Type: string
Required: False

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

Type: string
Required: False

HlsIngest

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

Type: Array of type IngestEndpoint (p. 13)
Required: False

IngestEndpoint

password
The system-generated password for WebDAV ingest authentication.

Type: string
Required: False

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

Type: string
Required: False

username
The system-generated username for WebDAV ingest authentication.
Channels id Credentials

URI

/channels/id/credentials

HTTP Methods

PUT

Operation ID: RotateChannelCredentials
Generates a new WebDAV username and password.

Path Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>Identifier for the object that you are working on.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Channel (p. 15)</td>
<td>200 OK response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>New WebDAV credentials are generated successfully.</td>
</tr>
<tr>
<td>422</td>
<td>None</td>
<td>422 Unprocessable Entity response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage could not process the instructions in the body of the request.</td>
</tr>
<tr>
<td>500</td>
<td>None</td>
<td>500 Internal Server Error response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</td>
</tr>
<tr>
<td>403</td>
<td>None</td>
<td>403 Forbidden response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage cannot authorize the request,</td>
</tr>
</tbody>
</table>
### Schemas

#### Response Bodies

**Example Channel**

```json
{
  "description (p. 15)": "string",
  "id (p. 16)": "string",
  "hlsIngest (p. 16)": {
    "ingestEndpoints (p. 16)": [
      { "password (p. 16)": "string",
        "url (p. 16)": "string",
        "username (p. 16)": "string"
      }
    ],
  },
  "arn (p. 16)": "string"
}
```

### Properties

#### Channel

**description**

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

**Type:** string
**id**

Unique identifier that you assign to the channel.

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

**hlsIngest**

System-generated information about the channel.

- **Type**: HlsIngest (p. 16)
- **Required**: False

**arn**

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

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

**HlsIngest**

**ingestEndpoints**

The ingest URL where the source stream should be sent.

- **Type**: Array of type IngestEndpoint (p. 16)
- **Required**: False

**IngestEndpoint**

**password**

The system-generated password for WebDAV ingest authentication.

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

**url**

The ingest URL where the source stream should be sent.

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

**username**

The system-generated username for WebDAV ingest authentication.

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

```bash
aws mediapackage list-origin-endpoints
[--channelId <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

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>nextToken</td>
<td>String</td>
<td>False</td>
<td>Pagination token from the GET list request. Use the token to fetch the next page of results.</td>
</tr>
<tr>
<td>maxResults</td>
<td>String</td>
<td>False</td>
<td>Maximum number of records to return.</td>
</tr>
<tr>
<td>channelId</td>
<td>String</td>
<td>False</td>
<td>Limits results to endpoints associated with the given channel ID.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>OriginEndpointList</td>
<td>200 OK response. The list of endpoints is returned successfully.</td>
</tr>
<tr>
<td>422</td>
<td>None</td>
<td>422 Unprocessable Entity response</td>
</tr>
</tbody>
</table>
### AWS Elemental MediaPackage API Reference

#### HTTP Methods

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>None</td>
<td>500 Internal Server Error response. AWS Elemental MediaPackage could not process the instructions in the body of the request.</td>
</tr>
<tr>
<td>403</td>
<td>None</td>
<td>403 Forbidden response. AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.</td>
</tr>
<tr>
<td>503</td>
<td>None</td>
<td>Service unavailable response. AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.</td>
</tr>
<tr>
<td>404</td>
<td>None</td>
<td>404 Not Found response. AWS Elemental MediaPackage did not find a representation of the target resource.</td>
</tr>
<tr>
<td>429</td>
<td>None</td>
<td>429 Too Many Requests response. Too many requests have been sent in a given amount of time.</td>
</tr>
</tbody>
</table>

### 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 egress 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

```json
{
    "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

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>OriginEndpoint (p. 23)</td>
<td>200 OK response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The endpoint is created successfully.</td>
</tr>
<tr>
<td>422</td>
<td>None</td>
<td>422 Unprocessable Entity response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage could not process the instructions in the body of the request.</td>
</tr>
<tr>
<td>500</td>
<td>None</td>
<td>500 Internal Server Error response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</td>
</tr>
<tr>
<td>403</td>
<td>None</td>
<td>403 Forbidden response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage cannot authorize the request,</td>
</tr>
</tbody>
</table>
### Status Codes

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>503</td>
<td>None</td>
<td>Possibly due to insufficient authentication credentials.</td>
</tr>
<tr>
<td>404</td>
<td>None</td>
<td>404 Not Found response</td>
</tr>
<tr>
<td>429</td>
<td>None</td>
<td>429 Too Many Requests response</td>
</tr>
</tbody>
</table>

**Service unavailable response**
AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

**404 Not Found response**
AWS Elemental MediaPackage did not find a representation of the target resource.

**429 Too Many Requests response**
Too many requests have been sent in a given amount of time.

---

### Schemas

#### Request Bodies

**Example POST**

```json
{
    "startOverWindowSeconds (p. 30)": integer,
    "timeDelaySeconds (p. 31)": integer,
    "manifestName (p. 31)": "string",
    "description (p. 31)": "string",
    "dashPackage (p. 31)": {
        "manifestWindowSeconds (p. 25)": integer,
        "minBufferTimeSeconds (p. 25)": integer,
        "segmentDurationSeconds (p. 25)": integer,
        "encryption (p. 25)": {
            "keyRotationIntervalSeconds (p. 24)": integer,
            "spekeKeyProvider (p. 24)": {
                "resourceId (p. 32)": "string",
                "systemIds (p. 32)": [
                    "string"
                ],
                "roleArn (p. 32)": "string",
                "url (p. 33)": "string"
            }
        },
        "profile (p. 25)": enum,
        "streamSelection (p. 25)": {
            "streamOrder (p. 33)": enum,
            "maxVideoBitsPerSecond (p. 33)": integer,
            "minVideoBitsPerSecond (p. 33)": integer
        },
        "minUpdatePeriodSeconds (p. 25)": integer,
        "suggestedPresentationDelaySeconds (p. 26)": integer
    }
}
```
},
"id (p. 31)": "string",
"whitelist (p. 31)": [
  "string"
],
"channelId (p. 31)": "string",
"hlsPackage (p. 32)": {
  "useAudioRenditionGroup (p. 27)": boolean,
  "segmentDurationSeconds (p. 27)": integer,
  "adMarkers (p. 27)": enum,
  "playlistWindowSeconds (p. 27)": integer,
  "encryption (p. 27)": {
    "repeatExtXKey (p. 26)": boolean,
    "constantInitializationVector (p. 26)": "string",
    "keyRotationIntervalSeconds (p. 26)": integer,
    "encryptionMethod (p. 26)": enum,
    "spekeKeyProvider (p. 26)": {
      "resourceId (p. 32)": "string",
      "systemIds (p. 32)": [
        "string"
      ],
      "roleArn (p. 32)": "string",
      "url (p. 33)": "string"
    }
  },
  "programDateTimeIntervalSeconds (p. 27)": integer,
  "playlistType (p. 28)": enum,
  "streamSelection (p. 28)": {
    "streamOrder (p. 33)": enum,
    "maxVideoBitsPerSecond (p. 33)": integer,
    "minVideoBitsPerSecond (p. 33)": integer
  },
  "includeIframeOnlyStream (p. 28)": boolean
},
"mssPackage (p. 32)": {
  "manifestWindowSeconds (p. 28)": integer,
  "segmentDurationSeconds (p. 28)": integer,
  "encryption (p. 29)": {
    "spekeKeyProvider (p. 28)": {
      "resourceId (p. 32)": "string",
      "systemIds (p. 32)": [
        "string"
      ],
      "roleArn (p. 32)": "string",
      "url (p. 33)": "string"
    }
  },
  "streamSelection (p. 29)": {
    "streamOrder (p. 33)": enum,
    "maxVideoBitsPerSecond (p. 33)": integer,
    "minVideoBitsPerSecond (p. 33)": integer
  }
}
}

## Response Bodies

### Example OriginEndpointList

```
{
  "originEndpoints (p. 32)": [
    {
      "startoverWindowSeconds (p. 29)": integer,
      "timeDelaySeconds (p. 29)": integer,
    }
  ]
```
"manifestName (p. 29)": "string",
"description (p. 29)": "string",
"dashPackage (p. 29)": {
    "manifestWindowSeconds (p. 25)": integer,
    "minBufferTimeSeconds (p. 25)": integer,
    "segmentDurationSeconds (p. 25)": integer,
    "encryption (p. 25)": {
        "keyRotationIntervalSeconds (p. 24)": integer,
        "spekeKeyProvider (p. 24)": {
            "resourceId (p. 32)": "string",
            "systemIds (p. 32)": ["string"],
            "roleArn (p. 32)": "string",
            "url (p. 33)": "string"
        }
    },
    "profile (p. 25)": enum,
    "streamSelection (p. 25)": {
        "streamOrder (p. 33)": enum,
        "maxVideoBitsPerSecond (p. 33)": integer,
        "minVideoBitsPerSecond (p. 33)": integer
    },
    "minUpdatePeriodSeconds (p. 25)": integer,
    "suggestedPresentationDelaySeconds (p. 26)": integer
},
"id (p. 30)": "string",
"whitelist (p. 30)": ["string"],
"arn (p. 30)": "string",
"channelId (p. 30)": "string",
"url (p. 30)": "string",
"hlsPackage (p. 30)": {
    "useAudioRenditionGroup (p. 27)": boolean,
    "segmentDurationSeconds (p. 27)": integer,
    "adMarkers (p. 27)": enum,
    "playlistWindowSeconds (p. 27)": integer,
    "encryption (p. 27)": {
        "repeatExtXKey (p. 26)": boolean,
        "constantInitializationVector (p. 26)": "string",
        "keyRotationIntervalSeconds (p. 26)": integer,
        "encryptionMethod (p. 26)": enum,
        "spekeKeyProvider (p. 26)": {
            "resourceId (p. 32)": "string",
            "systemIds (p. 32)": ["string"],
            "roleArn (p. 32)": "string",
            "url (p. 33)": "string"
        }
    },
    "programDateTimeIntervalSeconds (p. 27)": integer,
    "playlistType (p. 28)": enum,
    "streamSelection (p. 28)": {
        "streamOrder (p. 33)": enum,
        "maxVideoBitsPerSecond (p. 33)": integer,
        "minVideoBitsPerSecond (p. 33)": integer
    },
    "includeIframeOnlyStream (p. 28)": boolean
},
"mssPackage (p. 30)": {
    "manifestWindowSeconds (p. 28)": integer,
    "segmentDurationSeconds (p. 28)": integer,
    "encryption (p. 29)": {
        "spekeKeyProvider (p. 28)": {
            "resourceId (p. 32)": "string",
            "systemIds (p. 32)": ["string"],
            "roleArn (p. 32)": "string",
            "url (p. 33)": "string"
        }
    },
    "programDateTimeIntervalSeconds (p. 27)": integer,
    "playlistType (p. 28)": enum,
    "streamSelection (p. 28)": {
        "streamOrder (p. 33)": enum,
        "maxVideoBitsPerSecond (p. 33)": integer,
        "minVideoBitsPerSecond (p. 33)": integer
    },
    "includeIframeOnlyStream (p. 28)": boolean
}
"resourceId (p. 32)”: “string”,
"systemIds (p. 32)”: [ 
  "string"
],
"roleArn (p. 32)”: “string”,
"url (p. 33)”: “string”
},
"streamSelection (p. 29)”: {
  "streamOrder (p. 33)”: enum,
  "maxVideoBitsPerSecond (p. 33)”: integer,
  "minVideoBitsPerSecond (p. 33)”: integer
}
],
"nextToken (p. 32)”: “string”
}

Example OriginEndpoint

{
  "startoverWindowSeconds (p. 29)”: integer,
  "timeDelaySeconds (p. 29)”: integer,
  "manifestName (p. 29)”: “string”,
  "description (p. 29)”: “string”,
  "dashPackage (p. 29)”: {
    "manifestWindowSeconds (p. 25)”: integer,
    "minBufferTimeSeconds (p. 25)”: integer,
    "segmentDurationSeconds (p. 25)”: integer,
    "encryption (p. 25)”: {
      "keyRotationIntervalSeconds (p. 24)”: integer,
      "spekeKeyProvider (p. 24)”: {
        "resourceId (p. 32)": “string”,
        "systemIds (p. 32)": [ 
          "string"
        ],
        "roleArn (p. 32)": “string”,
        "url (p. 33)": “string”
      },
      "profile (p. 25)”: enum,
      "streamSelection (p. 25)": {
        "streamOrder (p. 25)": enum,
        "maxVideoBitsPerSecond (p. 33)": integer,
        "minVideoBitsPerSecond (p. 33)": integer
      },
      "minUpdatePeriodSeconds (p. 25)": integer,
      "suggestedPresentationDelaySeconds (p. 26)": integer
    },
    "id (p. 30)”: “string”,
    "whitelist (p. 30)": [ 
      "string"
    ],
    "arn (p. 30)”: "string",
    "channelId (p. 30)": “string”,
    "url (p. 30)": “string”,
    "hlsPackage (p. 30)": {
      "useAudioRenditionGroup (p. 27)": boolean,
      "segmentDurationSeconds (p. 27)": integer,
      "adMarkers (p. 27)": enum,
      "playlistWindowSeconds (p. 27)": integer,
      "encryption (p. 27)": {
        "repeatExtXKey (p. 26)": boolean,
Properties

DashEncryption

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. 32)
Required: True
**DashPackage**

**manifestWindowSeconds**
Time window (in seconds) contained in each 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

**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:* DashEncryption (p. 24)  
*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

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

*Type:* StreamSelection (p. 33)  
*Required:* False

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

Type: integer
Required: False

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

HlsEncryption

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

spekeKeyProvider
Parameters for the SPEKE key provider.

Type: SpekeKeyProvider (p. 32)
Required: True
HlsPackage

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

playlistWindowSeconds

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

*Type:* integer  
*Required:* False

encryption

Parameters for encrypting content.

*Type:* HlsEncryption (p. 26)  
*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.
Properties

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

streamSelection

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

Type: StreamSelection (p. 33)  
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

MssEncryption

spekeKeyProvider

Parameters for the SPEKE key provider.

Type: SpekeKeyProvider (p. 32)  
Required: True

MssPackage

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
Properties

**encryption**

Parameters for encrypting content.

Type: MssEncryption (p. 28)
Required: False

**streamSelection**

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

Type: StreamSelection (p. 33)
Required: False

**OriginEndpoint**

**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

**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

**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. 25)
Required: False
Properties

id
The endpoint identifier.
  Type: string
  Required: False

whitelist
The IP addresses that can access this endpoint.
  Type: Array of 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

url
The URL that's used to request content from this endpoint.
  Type: string
  Required: False

hlsPackage
Parameters for Apple HLS packaging.
  Type: HlsPackage (p. 27)
  Required: False

mssPackage
Parameters for Microsoft Smooth Streaming packaging.
  Type: MssPackage (p. 28)
  Required: False

OriginEndpointCreateParameters

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.
Properties

**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. 25)  
**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

**channelId**
The ID of the channel associated with this endpoint.

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

Parameters for Apple HLS packaging.

Type: HlsPackage (p. 27)
Required: False

mssPackage

Parameters for Microsoft Smooth Streaming packaging.

Type: MssPackage (p. 28)
Required: False

OriginEndpointList

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. 29)
Required: False

nextToken

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

Type: string
Required: False

SpekeKeyProvider

resourceId

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

Type: string
Required: True

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}
**Origin_endpoints**

**id**

Type: string  
Required: True

**url**

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

Type: string  
Required: True

**StreamSelection**

**streamOrder**

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

Type: string  
Required: False

**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. A 0 indicates that there is no maximum bitrate for this endpoint.

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. A 0 indicates that there is no minimum bitrate for this endpoint.

Type: integer  
Required: False

---

**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

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>Identifier for the object that you are working on.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>OriginEndpoint (p. 39)</td>
<td>200 OK response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Endpoint details are returned successfully.</td>
</tr>
<tr>
<td>422</td>
<td>None</td>
<td>422 Unprocessable Entity response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage could not process the instructions in the body of the request.</td>
</tr>
<tr>
<td>500</td>
<td>None</td>
<td>500 Internal Server Error response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</td>
</tr>
<tr>
<td>403</td>
<td>None</td>
<td>403 Forbidden response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.</td>
</tr>
<tr>
<td>503</td>
<td>None</td>
<td>Service unavailable response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.</td>
</tr>
<tr>
<td>404</td>
<td>None</td>
<td>404 Not Found response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage did not find a representation of the target resource.</td>
</tr>
<tr>
<td>429</td>
<td>None</td>
<td>429 Too Many Requests response</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>Identifier for the object that you are working on.</td>
</tr>
</tbody>
</table>

Responses

<table>
<thead>
<tr>
<th>Status Code</th>
<th>Response Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>OriginEndpoint (p. 39)</td>
<td>200 OK response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The endpoint is updated successfully.</td>
</tr>
<tr>
<td>422</td>
<td>None</td>
<td>422 Unprocessable Entity response</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AWS Elemental MediaPackage could not process the instructions in the body of the request.</td>
</tr>
</tbody>
</table>
### Status Code	Response Model	Description
---
500	None	500 Internal Server Error response
An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.

403	None	403 Forbidden response
AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.

503	None	Service unavailable response
AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

404	None	404 Not Found response
AWS Elemental MediaPackage did not find a representation of the target resource.

429	None	429 Too Many Requests response
Too many requests have been sent in a given amount of time.

### DELETE

Operation ID: DeleteOriginEndpoint

Permanently deletes an endpoint.

**AWS CLI Request Syntax**

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

**Path Parameters**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Required</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>String</td>
<td>True</td>
<td>Identifier for the object that you are working on.</td>
</tr>
</tbody>
</table>
## Responses

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

Request Bodies

Example PUT

```json
{
    "startOverWindowSeconds (p. 46)": integer,
    "timeDelaySeconds (p. 47)": integer,
    "manifestName (p. 47)": "string",
    "description (p. 47)": "string",
    "dashPackage (p. 47)": {
        "manifestWindowSeconds (p. 41)": integer,
        "minBufferTimeSeconds (p. 41)": integer,
        "segmentDurationSeconds (p. 41)": integer,
        "encryption (p. 41)": {
            "keyRotationIntervalSeconds (p. 40)": integer,
            "spekeKeyProvider (p. 41)": {
                "resourceId (p. 48)": "string",
                "systemIds (p. 48)": [
                    "string"
                ],
                "roleArn (p. 48)": "string",
                "url (p. 48)": "string"
            }
        },
        "profile (p. 41)": enum,
        "streamSelection (p. 41)": {
            "streamOrder (p. 48)": enum,
            "maxVideoBitsPerSecond (p. 48)": integer,
            "minVideoBitsPerSecond (p. 49)": integer
        },
        "minUpdatePeriodSeconds (p. 42)": integer,
        "suggestedPresentationDelaySeconds (p. 42)": integer
    },
    "whitelist (p. 47)": [
        "string"
    ],
    "hlsPackage (p. 47)": {
        "useAudioRenditionGroup (p. 43)": boolean,
        "segmentDurationSeconds (p. 43)": integer,
        "adMarkers (p. 43)": enum,
        "playlistWindowSeconds (p. 43)": integer,
        "encryption (p. 43)": {
            "repeatExtXKey (p. 42)": boolean,
            "constantInitializationVector (p. 42)": "string",
            "keyRotationIntervalSeconds (p. 42)": integer,
            "encryptionMethod (p. 42)": enum,
            "spekeKeyProvider (p. 42)": {
                "resourceId (p. 48)": "string",
                "systemIds (p. 48)": [
                    "string"
                ],
                "roleArn (p. 48)": "string",
                "url (p. 48)": "string"
            }
        },
        "programDateTimeIntervalSeconds (p. 43)": integer,
        "playlistType (p. 44)": enum,
        "streamSelection (p. 44)": {
            "streamOrder (p. 48)": enum,
            "maxVideoBitsPerSecond (p. 48)": integer,
            "minVideoBitsPerSecond (p. 49)": integer
        }
    }
}
```
"includeIframeOnlyStream (p. 44)": boolean
"
mssPackage (p. 47)": {
  "manifestWindowSeconds (p. 44)": integer,
  "segmentDurationSeconds (p. 44)": integer,
  "encryption (p. 45)": {
    "spekeKeyProvider (p. 44)": {
      "resourceId (p. 48)": "string",
      "systemIds (p. 48)": [
        "string"
      ],
      "roleArn (p. 48)": "string",
      "url (p. 48)": "string"
    }
  }
},
"streamSelection (p. 45)": {
  "streamOrder (p. 48)": enum,
  "maxVideoBitsPerSecond (p. 48)": integer,
  "minVideoBitsPerSecond (p. 49)": integer
}
"
Response Bodies

Example OriginEndpoint

{
  "startoverWindowSeconds (p. 45)": integer,
  "timeDelaySeconds (p. 45)": integer,
  "manifestName (p. 45)": "string",
  "description (p. 45)": "string",
  "dashPackage (p. 45)": {
    "manifestWindowSeconds (p. 41)": integer,
    "minBufferTimeSeconds (p. 41)": integer,
    "segmentDurationSeconds (p. 41)": integer,
    "encryption (p. 41)": {
      "keyRotationIntervalSeconds (p. 40)": integer,
      "spekeKeyProvider (p. 41)": {
        "resourceId (p. 48)": "string",
        "systemIds (p. 48)": [
          "string"
        ],
        "roleArn (p. 48)": "string",
        "url (p. 48)": "string"
      }
    },
    "profile (p. 41)": enum,
    "streamSelection (p. 41)": {
      "streamOrder (p. 48)": enum,
      "maxVideoBitsPerSecond (p. 48)": integer,
      "minVideoBitsPerSecond (p. 49)": integer
    },
    "minUpdatePeriodSeconds (p. 42)": integer,
    "suggestedPresentationDelaySeconds (p. 42)": integer
  }
},
"id (p. 46)": "string",
"whitelist (p. 46)": [
  "string"
],
"arn (p. 46)": "string",
"channelId (p. 46)": "string"
"url (p. 46)" : "string",
"hlsPackage (p. 46)" : {
  "useAudioRenditionGroup (p. 43)" : boolean,
  "segmentDurationSeconds (p. 43)" : integer,
  "adMarkers (p. 43)" : enum,
  "playlistWindowSeconds (p. 43)" : integer,
  "encryption (p. 43)" : {
    "repeatExtXKey (p. 42)" : boolean,
    "constantInitializationVector (p. 42)" : "string",
    "keyRotationIntervalSeconds (p. 42)" : integer,
    "encryptionMethod (p. 42)" : enum,
    "spekeKeyProvider (p. 42)" : {
      "resourceId (p. 48)" : "string",
      "systemIds (p. 48)" : [ "string"
    ],
    "roleArn (p. 48)" : "string",
    "url (p. 48)" : "string"
  }
},
"programDateTimeIntervalSeconds (p. 43)" : integer,
"playlistType (p. 44)" : enum,
"streamSelection (p. 44)" : {
  "streamOrder (p. 48)" : enum,
  "maxVideoBitsPerSecond (p. 48)" : integer,
  "minVideoBitsPerSecond (p. 49)" : integer
},
"includeIframeOnlyStream (p. 44)" : boolean
},
"mssPackage (p. 46)" : {
  "manifestWindowSeconds (p. 44)" : integer,
  "segmentDurationSeconds (p. 44)" : integer,
  "encryption (p. 45)" : {
    "spekeKeyProvider (p. 44)" : {
      "resourceId (p. 48)" : "string",
      "systemIds (p. 48)" : [ "string"
    ],
    "roleArn (p. 48)" : "string",
    "url (p. 48)" : "string"
  }
},
"streamSelection (p. 45)" : {
  "streamOrder (p. 48)" : enum,
  "maxVideoBitsPerSecond (p. 48)" : integer,
  "minVideoBitsPerSecond (p. 49)" : integer
}
}

Properties

DashEncryption

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. 48)
- **Required**: True

DashPackage

manifestWindowSeconds
Time window (in seconds) contained in each 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

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**: DashEncryption (p. 40)
- **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

streamSelection
Limitations for outputs from the endpoint, based on the video bitrate.
**Type:** StreamSelection (p. 48)  
**Required:** False

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

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

**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

**HlsEncryption**

**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

**spekeKeyProvider**
Parameters for the SPEKE key provider.
Properties

**Type:** SpekeKeyProvider (p. 48)

**Required:** True

---

**HlsPackage**

**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

**playlistWindowSeconds**

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

**Type:** integer

**Required:** False

**encryption**

Parameters for encrypting content.

**Type:** HlsEncryption (p. 42)

**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

### streamSelection

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

**Type:** StreamSelection (p. 48)  
**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

### MssEncryption

#### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** SpekeKeyProvider (p. 48)  
**Required:** True

### MssPackage

#### 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.
**Properties**

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

**encryption**
Parameters for encrypting content.
- Type: MssEncryption (p. 44)
  - Required: False

**streamSelection**
Limitations for outputs from the endpoint, based on the video bitrate.
- Type: StreamSelection (p. 48)
  - Required: False

**OriginEndpoint**

**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

**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

**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. 41)
  - Required: False
id
The endpoint identifier.
   Type: string
   Required: False

whitelist
The IP addresses that can access this endpoint.
   Type: Array of 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

url
The URL that's used to request content from this endpoint.
   Type: string
   Required: False

hlsPackage
Parameters for Apple HLS packaging.
   Type: HlsPackage (p. 43)
   Required: False

mssPackage
Parameters for Microsoft Smooth Streaming packaging.
   Type: MssPackage (p. 44)
   Required: False

OriginEndpointUpdateParameters
startoverWindowSeconds
Maximum duration (seconds) of content to retain for startover playback. Enter 0 to indicate that startover playback is disabled for this endpoint.
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. 41)
- **Required**: False

whitelist
The IP addresses that can access this endpoint.

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

hlsPackage
Parameters for Apple HLS packaging.

- **Type**: HlsPackage (p. 43)
- **Required**: False

mssPackage
Parameters for Microsoft Smooth Streaming packaging.

- **Type**: MssPackage (p. 44)
- **Required**: False
**SpekeKeyProvider**

**resourceId**

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

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

**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**

**streamOrder**

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

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

**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. A 0 indicates that there is no maximum bitrate for this endpoint.

- **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. A 0 indicates that there is no minimum bitrate for this endpoint.

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