



Live API Reference

AWS Elemental MediaPackage



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](#)
- [Channels id](#)
- [Channels id Configure_logs](#)
- [Channels id Credentials](#)
- [Channels id Ingest_endpoints ingest_endpoint_id Credentials](#)
- [Harvest_jobs](#)
- [Harvest_jobs id](#)
- [Origin_endpoints](#)
- [Origin_endpoints id](#)
- [Tags resource-arn](#)

Channels

URI

/channels

HTTP methods

GET

Operation ID: ListChannels

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

Query parameters

Name	Type	Required	Description
nextToken	String	False	Pagination token from the GET list

Name	Type	Required	Description
			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	ChannelList	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.

Status code	Response model	Description
429	None	<p>429 Too Many Requests response</p> <p>One of these two error conditions:</p> <p>Too many requests have been sent in a given amount of time.</p> <p>Your account has exceeded the quota allotted for the resource that you're creating.</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>

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.

Responses

Status code	Response model	Description
200	Channel	<p>200 OK response</p> <p>The channel is created successfully.</p>
403	None	<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>One of these two error conditions:</p>

Status code	Response model	Description
		Too many requests have been sent in a given amount of time.
		Your account has exceeded the quota allotted for the resource that you're creating.
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.

OPTIONS

Enable CORS by returning correct headers.

Responses

Status code	Response model	Description
200	None	Default response for CORS method.

Schemas

Request bodies

POST schema

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

Response bodies

ChannelList schema

```
{
  "channels": [
    {
      "createdAt": "string",
      "ingressAccessLogs": {
        "logGroupName": "string"
      },
      "egressAccessLogs": {
        "logGroupName": "string"
      },
      "description": "string",
      "hlsIngest": {
        "ingestEndpoints": [
          {
            "password": "string",
            "id": "string",
            "url": "string",
            "username": "string"
          }
        ]
      },
      "id": "string",
      "arn": "string",
      "tags": {
      }
    }
  ]
}
```

```
],  
  "nextToken": "string"  
}
```

Channel schema

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

Properties

Channel

Channel configuration.

createdAt

The date and time the Channel was created.

Type: string

Required: False

ingressAccessLogs

Configures ingress access logs.

Type: [IngressAccessLogs](#)

Required: False

egressAccessLogs

Configures egress access logs.

Type: [EgressAccessLogs](#)

Required: False

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](#)

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](#)

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. Supported characters are numbers, letters, underscores (`_`), and dashes (`-`) with a length of 1 to 256 characters.

Type: string

Required: True

tags

The tags to assign to the channel.

Type: [Tags](#)

Required: False

ChannelList

A collection of Channel records.

channels

List of channel objects that are configured on this account.

Type: Array of type [Channel](#)

Required: False

nextToken

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

Type: string

Required: False

EgressAccessLogs

Egress access log configuration parameters.

logGroupName

Sets a custom AWS CloudWatch log group name for egress logs. If a log group name isn't specified, the default name is used: /aws/MediaPackage/EgressAccessLogs.

Type: string

Required: False

HlsIngest

HLS ingest configuration.

ingestEndpoints

The input URL where the source stream should be sent.

Type: Array of type [IngestEndpoint](#)

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

IngressAccessLogs

Ingress access log configuration parameters.

logGroupName

Sets a custom AWS CloudWatch log group name for ingress logs. If a log group name isn't specified, the default name is used: /aws/MediaPackage/IngressAccessLogs.

Type: string

Required: False

Tags

A collection of tags associated with a resource.

Value description:

- **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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

CreateChannel

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Channels id

URI

/channels/*id*

HTTP methods

GET

Operation ID: DescribeChannel

Provides details about a channel.

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	Channel	<p>200 OK response</p> <p>Channel details are returned successfully.</p>
403	None	<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>One of these two error conditions:</p> <p>Too many requests have been sent in a given amount of time.</p>

Status code	Response model	Description
500	None	<p>Your account has exceeded the quota allotted for the resource that you're creating.</p> <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>

PUT

Operation ID: UpdateChannel

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

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	Channel	<p>200 OK response</p> <p>The channel is updated successfully.</p>
403	None	<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>One of these two error conditions:</p> <p>Too many requests have been sent in a given amount of time.</p>

Status code	Response model	Description
500	None	<p>Your account has exceeded the quota allotted for the resource that you're creating.</p> <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: DeleteChannel

Permanently deletes a channel.

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	<p>202 Accepted response</p> <p>AWS Elemental MediaPackage accepted the request but has not processed it yet.</p>
403	None	<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>One of these two error conditions:</p> <p>Too many requests have been sent in a given amount of time.</p>

Status code	Response model	Description
500	None	<p>Your account has exceeded the quota allotted for the resource that you're creating.</p> <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>

OPTIONS

Enable CORS by returning correct headers.

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	None	Default response for CORS method.

Schemas

Request bodies

PUT schema

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

Response bodies

Channel schema

```
{
  "createdAt": "string",
  "ingressAccessLogs": {
    "logGroupName": "string"
  },
  "egressAccessLogs": {
    "logGroupName": "string"
  },
  "description": "string",
  "hlsIngest": {
    "ingestEndpoints": [
      {
        "password": "string",
        "id": "string",
        "url": "string",
        "username": "string"
      }
    ]
  },
}
```

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

Properties

Channel

Channel configuration.

createdAt

The date and time the Channel was created.

Type: string

Required: False

ingressAccessLogs

Configures ingress access logs.

Type: [IngressAccessLogs](#)

Required: False

egressAccessLogs

Configures egress access logs.

Type: [EgressAccessLogs](#)

Required: False

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](#)

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](#)

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

EgressAccessLogs

Egress access log configuration parameters.

logGroupName

Sets a custom AWS CloudWatch log group name for egress logs. If a log group name isn't specified, the default name is used: `/aws/MediaPackage/EgressAccessLogs`.

Type: string

Required: False

HlsIngest

HLS ingest configuration.

ingestEndpoints

The input URL where the source stream should be sent.

Type: Array of type [IngestEndpoint](#)

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

IngressAccessLogs

Ingress access log configuration parameters.

logGroupName

Sets a custom AWS CloudWatch log group name for ingress logs. If a log group name isn't specified, the default name is used: `/aws/MediaPackage/IngressAccessLogs`.

Type: string

Required: False

Tags

A collection of tags associated with a resource.

Value description:

- **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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateChannel

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

DeleteChannel

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Channels id Configure_logs

Configures access logs for a channel. For information about access logs, see [Access logging](#).

URI

/channels/*id*/configure_logs

HTTP methods

PUT

Operation ID: ConfigureLogs

Configures access logs for a channel.

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	Channel	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

Status code	Response model	Description
		One of these two error conditions: Too many requests have been sent in a given amount of time. Your account has exceeded the quota allotted for the resource that you're creating.
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.

OPTIONS

Enable CORS by returning correct headers.

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	None	Default response for CORS method.

Schemas

Request bodies

PUT schema

```
{
  "ingressAccessLogs": {
    "logGroupName": "string"
  },
  "egressAccessLogs": {
    "logGroupName": "string"
  }
}
```

Response bodies

Channel schema

```
{
  "createdAt": "string",
  "ingressAccessLogs": {
    "logGroupName": "string"
  },
  "egressAccessLogs": {
```

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

Properties

Channel

Channel configuration.

createdAt

The date and time the Channel was created.

Type: string

Required: False

ingressAccessLogs

Configures ingress access logs.

Type: [IngressAccessLogs](#)

Required: False

egressAccessLogs

Configures egress access logs.

Type: [EgressAccessLogs](#)

Required: False

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](#)

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](#)

Required: False

ConfigureLogsParameters

Access log configuration parameters.

ingressAccessLogs

Configures ingress access logs.

Type: [IngressAccessLogs](#)

Required: False

egressAccessLogs

Configures egress access logs.

Type: [EgressAccessLogs](#)

Required: False

EgressAccessLogs

Egress access log configuration parameters.

logGroupName

Sets a custom AWS CloudWatch log group name for egress logs. If a log group name isn't specified, the default name is used: `/aws/MediaPackage/EgressAccessLogs`.

Type: string

Required: False

HlsIngest

HLS ingest configuration.

ingestEndpoints

The input URL where the source stream should be sent.

Type: Array of type [IngestEndpoint](#)

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

IngressAccessLogs

Ingress access log configuration parameters.

logGroupName

Sets a custom AWS CloudWatch log group name for ingress logs. If a log group name isn't specified, the default name is used: /aws/MediaPackage/IngressAccessLogs.

Type: string

Required: False

Tags

A collection of tags associated with a resource.

Value description:

- **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:

ConfigureLogs

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

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	Channel	200 OK response

Status code	Response model	Description
403	None	<p>New WebDAV credentials are generated 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>One of these two error conditions:</p> <p>Too many requests have been sent in a given amount of time.</p> <p>Your account has exceeded the quota allotted for the resource that you're creating.</p>

Status code	Response model	Description
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>

OPTIONS

Enable CORS by returning correct headers.

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	None	Default response for CORS method.

Schemas

Response bodies

Channel schema

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

Properties

Channel

Channel configuration.

createdAt

The date and time the Channel was created.

Type: string

Required: False

ingressAccessLogs

Configures ingress access logs.

Type: [IngressAccessLogs](#)

Required: False

egressAccessLogs

Configures egress access logs.

Type: [EgressAccessLogs](#)

Required: False

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](#)

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](#)

Required: False

EgressAccessLogs

Egress access log configuration parameters.

logGroupName

Sets a custom AWS CloudWatch log group name for egress logs. If a log group name isn't specified, the default name is used: `/aws/MediaPackage/EgressAccessLogs`.

Type: string

Required: False

HlsIngest

HLS ingest configuration.

ingestEndpoints

The input URL where the source stream should be sent.

Type: Array of type [IngestEndpoint](#)

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

IngressAccessLogs

Ingress access log configuration parameters.

logGroupName

Sets a custom AWS CloudWatch log group name for ingress logs. If a log group name isn't specified, the default name is used: `/aws/MediaPackage/IngressAccessLogs`.

Type: string

Required: False

Tags

A collection of tags associated with a resource.

Value description:

- **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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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

Responses

Status code	Response model	Description
200	Channel	200 OK response The channel is updated successfully.
403	None	403 Forbidden response AWS Elemental MediaPackage cannot authorize the request,

Status code	Response model	Description
404	None	<p>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>One of these two error conditions:</p> <p>Too many requests have been sent in a given amount of time.</p> <p>Your account has exceeded the quota allotted for the resource that you're creating.</p>
500	None	<p>500 Internal Server Error response</p> <p>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</p>

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

OPTIONS

Enable CORS by returning correct headers.

Path parameters

Name	Type	Required	Description
<i>ingest_endpoint_id</i>	String	True	The ID of the IngestEndpoint whose credentials you're rotating.
<i>id</i>	String	True	Identifier for the object that you are working on.

Responses

Status code	Response model	Description
200	None	Default response for CORS method.

Schemas

Response bodies

Channel schema

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

Properties

Channel

Channel configuration.

createdAt

The date and time the Channel was created.

Type: string

Required: False

ingressAccessLogs

Configures ingress access logs.

Type: [IngressAccessLogs](#)

Required: False

egressAccessLogs

Configures egress access logs.

Type: [EgressAccessLogs](#)

Required: False

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](#)

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](#)

Required: False

EgressAccessLogs

Egress access log configuration parameters.

logGroupName

Sets a custom AWS CloudWatch log group name for egress logs. If a log group name isn't specified, the default name is used: /aws/MediaPackage/EgressAccessLogs.

Type: string

Required: False

HlsIngest

HLS ingest configuration.

ingestEndpoints

The input URL where the source stream should be sent.

Type: Array of type [IngestEndpoint](#)

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

IngressAccessLogs

Ingress access log configuration parameters.

logGroupName

Sets a custom AWS CloudWatch log group name for ingress logs. If a log group name isn't specified, the default name is used: /aws/MediaPackage/IngressAccessLogs.

Type: string

Required: False

Tags

A collection of tags associated with a resource.

Value description:

- **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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Harvest_jobs

HarvestJobs provide details about the video on demand (VOD) assets that you want to harvest, or extract, from live content streams.

URI

/harvest_jobs

HTTP methods

GET

Operation ID: ListHarvestJobs

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

Query parameters

Name	Type	Required	Description
includeStatus	String	False	Limits results to harvestJobs with the given status. Valid values are IN_PROGRESS , SUCCEEDED , and FAILED.
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.
includeChannelId	String	False	Limits results to harvestJobs associate

Name	Type	Required	Description
			d with the given channel ID.
Responses			
Status code		Response model	Description
200		HarvestJobList	200 OK response The list of harvestJobs 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 One of these two error conditions:

Status code	Response model	Description
		Too many requests have been sent in a given amount of time.
		Your account has exceeded the quota allotted for the resource that you're creating.
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: CreateHarvestJob

Creates a harvestJob to extract a video on demand (VOD) clip from the live stream.

Responses

Status code	Response model	Description
200	HarvestJob	200 OK response

Status code	Response model	Description
403	None	<p>The harvestJob is created 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>One of these two error conditions:</p> <p>Too many requests have been sent in a given amount of time.</p> <p>Your account has exceeded the quota allotted for the resource that you're creating.</p>

Status code	Response model	Description
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>

OPTIONS

Enable CORS by returning correct headers.

Responses

Status code	Response model	Description
200	None	Default response for CORS method.

Schemas

Request bodies

POST schema

```
{  
  "s3Destination": {
```

```
"bucketName": "string",
"manifestKey": "string",
"roleArn": "string"
},
"startTime": "string",
"endTime": "string",
"id": "string",
"originEndpointId": "string"
}
```

Response bodies

HarvestJobList schema

```
{
  "harvestJobs": [
    {
      "createdAt": "string",
      "s3Destination": {
        "bucketName": "string",
        "manifestKey": "string",
        "roleArn": "string"
      },
      "startTime": "string",
      "endTime": "string",
      "id": "string",
      "originEndpointId": "string",
      "arn": "string",
      "channelId": "string",
      "status": enum
    }
  ],
  "nextToken": "string"
}
```

HarvestJob schema

```
{
  "createdAt": "string",
  "s3Destination": {
    "bucketName": "string",
    "manifestKey": "string",
    "roleArn": "string"
  }
}
```

```
},  
  "startTime": "string",  
  "endTime": "string",  
  "id": "string",  
  "originEndpointId": "string",  
  "arn": "string",  
  "channelId": "string",  
  "status": enum  
}
```

Properties

HarvestJob

HarvestJob configuration.

createdAt

The time that you submitted the HarvestJob.

Type: string

Required: False

s3Destination

Parameters that define how MediaPackage accesses and saves the harvested asset to your Amazon S3 bucket.

Type: [S3Destination](#)

Required: False

startTime

The start time of the window for the live-to-VOD asset.

Type: string

Required: False

endTime

The end time of the window for the live-to-VOD asset.

Type: string

Required: False

id

Unique identifier for this harvestJob. The identifier can't be changed after the harvestJob is created.

Type: string

Required: False

originEndpointId

The endpoint that MediaPackage harvests the live-to-VOD asset from.

Type: string

Required: False

arn

The Amazon Resource Name (ARN) that MediaPackage assigns to the harvestJob.

Type: string

Required: False

channelId

The ID of the channel that the HarvestJob harvests from.

Type: string

Required: False

status

The current status of the harvestJob.

We recommend that you configure a CloudWatch Event to notify you as harvestJobs complete or fail. For any failures, the CloudWatch Event explains why the harvestJob failed. For more

information about CloudWatch Events, see [Monitoring AWS Elemental MediaPackage with Amazon CloudWatch Events](#).

Type: string

Required: False

Values: IN_PROGRESS | SUCCEEDED | FAILED

HarvestJobCreateParameters

HarvestJob configuration.

s3Destination

Parameters that define how MediaPackage accesses and saves the harvested asset to your Amazon S3 bucket.

Type: [S3Destination](#)

Required: True

startTime

The start time of the window for the live-to-VOD asset. This time must be at the same time or after the live event started, and must be within the startover window on the endpoint. If the endpoint has a startover window of five hours and the asset's start time is six hours ago, the harvestJob fails.

Type: string

Required: True

endTime

The end time of the window for the live-to-VOD asset. The length of the asset can't exceed the startover window on the endpoint. If the startover window is five hours, the asset's end time can't be more than five hours from the asset's start time.

Type: string

Required: True

id

Unique identifier for this harvestJob. The identifier can't be changed after the harvestJob is created.

Type: string

Required: True

originEndpointId

The endpoint that MediaPackage harvests the live-to-VOD asset from.

Type: string

Required: True

HarvestJobList

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

harvestJobs

List of harvestJobs that you created on this account. MediaPackage runs each harvestJob only once. After that, MediaPackage keeps a record of the job on your account for 90 days, for reference purposes only.

Type: Array of type [HarvestJob](#)

Required: False

nextToken

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

Type: string

Required: False

S3Destination

Defines how and where MediaPackage saves the live-to-VOD asset after it's been harvested from the live stream.

bucketName

The name of the Amazon S3 bucket where MediaPackage stores the live-to-VOD asset.

Type: string

Required: True

manifestKey

The path within the S3 bucket where MediaPackage stores the parent manifest of the harvested asset.

Type: string

Required: True

roleArn

The Amazon Resource Name (ARN) for the IAM role that provides MediaPackage access to read and write to the Amazon S3 bucket where the harvested live-to-VOD asset is stored. For more information about this role, see [Allowing AWS Elemental MediaPackage to Access Amazon S3](#).

Type: string

Required: True

See also

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

ListHarvestJobs

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

CreateHarvestJob

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Harvest_jobs id

HarvestJobs provide details about the video on demand (VOD) assets that you harvested, or extracted, from live content streams.

URI

/harvest_jobs/*id*

HTTP methods

GET

Operation ID: DescribeHarvestJob

Provides details about a harvestJob.

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	HarvestJob	200 OK response HarvestJob 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

Status code	Response model	Description
		One of these two error conditions: Too many requests have been sent in a given amount of time. Your account has exceeded the quota allotted for the resource that you're creating.
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.

OPTIONS

Enable CORS by returning correct headers.

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	None	Default response for CORS method.

Schemas

Response bodies

HarvestJob schema

```
{
  "createdAt": "string",
  "s3Destination": {
    "bucketName": "string",
    "manifestKey": "string",
    "roleArn": "string"
  },
  "startTime": "string",
  "endTime": "string",
  "id": "string",
  "originEndpointId": "string",
  "arn": "string",
  "channelId": "string",
  "status": enum
}
```

Properties

HarvestJob

HarvestJob configuration.

createdAt

The time that you submitted the HarvestJob.

Type: string

Required: False

s3Destination

Parameters that define how MediaPackage accesses and saves the harvested asset to your Amazon S3 bucket.

Type: [S3Destination](#)

Required: False

startTime

The start time of the window for the live-to-VOD asset.

Type: string

Required: False

endTime

The end time of the window for the live-to-VOD asset.

Type: string

Required: False

id

Unique identifier for this harvestJob. The identifier can't be changed after the harvestJob is created.

Type: string

Required: False

originEndpointId

The endpoint that MediaPackage harvests the live-to-VOD asset from.

Type: string

Required: False

arn

The Amazon Resource Name (ARN) that MediaPackage assigns to the harvestJob.

Type: string

Required: False

channelId

The ID of the channel that the HarvestJob harvests from.

Type: string

Required: False

status

The current status of the harvestJob.

We recommend that you configure a CloudWatch Event to notify you as harvestJobs complete or fail. For any failures, the CloudWatch Event explains why the harvestJob failed. For more information about CloudWatch Events, see [Monitoring AWS Elemental MediaPackage with Amazon CloudWatch Events](#).

Type: string

Required: False

Values: IN_PROGRESS | SUCCEEDED | FAILED

S3Destination

Defines how and where MediaPackage saves the live-to-VOD asset after it's been harvested from the live stream.

bucketName

The name of the Amazon S3 bucket where MediaPackage stores the live-to-VOD asset.

Type: string

Required: True

manifestKey

The path within the S3 bucket where MediaPackage stores the parent manifest of the harvested asset.

Type: string

Required: True

roleArn

The Amazon Resource Name (ARN) for the IAM role that provides MediaPackage access to read and write to the Amazon S3 bucket where the harvested live-to-VOD asset is stored. For more information about this role, see [Allowing AWS Elemental MediaPackage to Access Amazon S3](#).

Type: string

Required: True

See also

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

DescribeHarvestJob

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

Origin_endpoints

URI

/origin_endpoints

HTTP methods

GET

Operation ID: ListOriginEndpoints

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

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.
channelId	String	False	Limits results to endpoints associate

Name	Type	Required	Description
			d with the given channel ID.
Responses			
Status code		Response model	Description
200		OriginEndpointList	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 instructions in the body of the request.
429		None	429 Too Many Requests response One of these two error conditions:

Status code	Response model	Description
		Too many requests have been sent in a given amount of time.
		Your account has exceeded the quota allotted for the resource that you're creating.
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.

Responses

Status code	Response model	Description
200	OriginEndpoint	<p>200 OK response</p> <p>The endpoint is created successfully.</p>
403	None	<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>One of these two error conditions:</p>

Status code	Response model	Description
		Too many requests have been sent in a given amount of time.
		Your account has exceeded the quota allotted for the resource that you're creating.
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.

OPTIONS

Enable CORS by returning correct headers.

Responses

Status code	Response model	Description
200	None	Default response for CORS method.

Schemas

Request bodies

POST schema

```
{
  "startoverWindowSeconds": integer,
  "manifestName": "string",
  "description": "string",
  "dashPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "utcTimingUri": "string",
    "profile": enum,
    "utcTiming": enum,
    "manifestLayout": enum,
    "segmentTemplateFormat": enum,
    "minUpdatePeriodSeconds": integer,
    "minBufferTimeSeconds": integer,
    "encryption": {
      "keyRotationIntervalSeconds": integer,
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
          "presetSpeke20Audio": enum,
          "presetSpeke20Video": enum
        },
        "resourceId": "string",
        "certificateArn": "string",
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    }
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "includeIframeOnlyStream": boolean,
  "periodTriggers": [
```

```

    enum
  ],
  "suggestedPresentationDelaySeconds": integer,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"whitelist": [
  "string"
],
"cmfPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "constantInitializationVector": "string",
    "keyRotationIntervalSeconds": integer,
    "encryptionMethod": enum,
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "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": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "playlistWindowSeconds": integer,
  "includeDvbSubtitles": boolean,
  "programDateTimeIntervalSeconds": integer,
  "playlistType": enum,
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "includeIframeOnlyStream": boolean,
  "adTriggers": [
    enum
```

```
    ],
    "adsOnDeliveryRestrictions": enum
  },
  "tags": {
  },
  "authorization": {
    "cdnIdentifierSecret": "string",
    "secretsRoleArn": "string"
  },
  "origination": enum,
  "timeDelaySeconds": integer,
  "id": "string",
  "channelId": "string",
  "mssPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
          "presetSpeke20Audio": enum,
          "presetSpeke20Video": enum
        },
        "resourceId": "string",
        "certificateArn": "string",
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    }
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  }
}
}
```

Response bodies

OriginEndpointList schema

```
{
  "originEndpoints": [
    {
      "startoverWindowSeconds": integer,
      "manifestName": "string",
      "description": "string",
      "dashPackage": {
        "manifestWindowSeconds": integer,
        "segmentDurationSeconds": integer,
        "utcTimingUri": "string",
        "profile": enum,
        "utcTiming": enum,
        "manifestLayout": enum,
        "segmentTemplateFormat": enum,
        "minUpdatePeriodSeconds": integer,
        "minBufferTimeSeconds": integer,
        "encryption": {
          "keyRotationIntervalSeconds": integer,
          "spekeKeyProvider": {
            "encryptionContractConfiguration": {
              "presetSpeke20Audio": enum,
              "presetSpeke20Video": enum
            },
            "resourceId": "string",
            "certificateArn": "string",
            "systemIds": [
              "string"
            ],
            "roleArn": "string",
            "url": "string"
          }
        }
      },
      "streamSelection": {
        "streamOrder": enum,
        "maxVideoBitsPerSecond": integer,
        "minVideoBitsPerSecond": integer
      },
      "includeIframeOnlyStream": boolean,
      "periodTriggers": [
        enum
      ]
    }
  ]
}
```

```

    ],
    "suggestedPresentationDelaySeconds": integer,
    "adTriggers": [
      enum
    ],
    "adsOnDeliveryRestrictions": enum
  },
  "whitelist": [
    "string"
  ],
  "cmfPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
      "constantInitializationVector": "string",
      "keyRotationIntervalSeconds": integer,
      "encryptionMethod": enum,
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
          "presetSpeke20Audio": enum,
          "presetSpeke20Video": enum
        },
        "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": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "playlistWindowSeconds": integer,
  "includeDvbSubtitles": boolean,
  "programDateTimeIntervalSeconds": integer,
  "playlistType": enum,
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "includeIframeOnlyStream": boolean,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"url": "string",
```

```
"tags": {
},
"authorization": {
  "cdnIdentifierSecret": "string",
  "secretsRoleArn": "string"
},
"createdAt": "string",
"origination": enum,
"timeDelaySeconds": integer,
"id": "string",
"arn": "string",
"channelId": "string",
"mssPackage": {
  "manifestWindowSeconds": integer,
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  }
}
},
"nextToken": "string"
}
```

OriginEndpoint schema

```
{
  "startoverWindowSeconds": integer,
  "manifestName": "string",
  "description": "string",
  "dashPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "utcTimingUri": "string",
    "profile": enum,
    "utcTiming": enum,
    "manifestLayout": enum,
    "segmentTemplateFormat": enum,
    "minUpdatePeriodSeconds": integer,
    "minBufferTimeSeconds": integer,
    "encryption": {
      "keyRotationIntervalSeconds": integer,
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
          "presetSpeke20Audio": enum,
          "presetSpeke20Video": enum
        },
        "resourceId": "string",
        "certificateArn": "string",
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    }
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "includeIframeOnlyStream": boolean,
  "periodTriggers": [
    enum
  ],
  "suggestedPresentationDelaySeconds": integer,
  "adTriggers": [
    enum
  ]
}
```

```

    ],
    "adsOnDeliveryRestrictions": enum
  },
  "whitelist": [
    "string"
  ],
  "cmfPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
      "constantInitializationVector": "string",
      "keyRotationIntervalSeconds": integer,
      "encryptionMethod": enum,
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
          "presetSpeke20Audio": enum,
          "presetSpeke20Video": enum
        },
        "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"

```

```
},
"hlPackage": {
  "useAudioRenditionGroup": boolean,
  "segmentDurationSeconds": integer,
  "adMarkers": enum,
  "encryption": {
    "repeatExtXKey": boolean,
    "constantInitializationVector": "string",
    "keyRotationIntervalSeconds": integer,
    "encryptionMethod": enum,
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "playlistWindowSeconds": integer,
  "includeDvbSubtitles": boolean,
  "programDateTimeIntervalSeconds": integer,
  "playlistType": enum,
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "includeIframeOnlyStream": boolean,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"url": "string",
"tags": {
},
"authorization": {
  "cdnIdentifierSecret": "string",
```

```

    "secretsRoleArn": "string"
  },
  "createdAt": "string",
  "origination": enum,
  "timeDelaySeconds": integer,
  "id": "string",
  "arn": "string",
  "channelId": "string",
  "mssPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
          "presetSpeke20Audio": enum,
          "presetSpeke20Video": enum
        },
        "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.

Value description:

- 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

Authorization

Parameters for enabling CDN authorization on the endpoint.

cdnIdentifierSecret

The Amazon Resource Name (ARN) for the secret in AWS Secrets Manager that your Content Delivery Network (CDN) uses for authorization to access your endpoint.

Type: string

Required: True

secretsRoleArn

The Amazon Resource Name (ARN) for the IAM role that allows MediaPackage to communicate with AWS Secrets Manager.

Type: string

Required: True

CmafEncryption

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

constantInitializationVector

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

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

The encryption method to use.

Type: [CmafEncryptionMethod](#)

Required: False

spekeKeyProvider

Parameters for the SPEKE key provider.

Type: [SpekeKeyProvider](#)

Required: True

CmafEncryptionMethod

The encryption method to use.

SAMPLE_AES

AES_CTR

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](#)

Required: False

hlsManifests

A list of HLS manifest configurations available from this endpoint.

Type: Array of type [HlsManifest](#)

Required: False

streamSelection

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

Type: [StreamSelection](#)

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](#)

Required: False

hlsManifests

A list of HLS manifest configurations available from this endpoint.

Type: Array of type [HlsManifestCreateOrUpdateParameters](#)

Required: False

streamSelection

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

Type: [StreamSelection](#)

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](#)

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

utcTimingUri

Specifies the value attribute of the UTC timing field when utcTiming is set to HTTP-ISO or HTTP-HEAD.

Type: string

Required: False

profile

The DASH profile for the output.

Value description:

- NONE - The output doesn't use a DASH profile.
- HBBTV_1_5 - The output is compliant with HbbTV v1.5. For information about HbbTV v1.5, see the [HbbTV specification website](#).
- HYBRIDCAST - The output is compliant with Hybridcast. For more information about Hybridcast, see the [IPTV Forum Japan Hybridcast specification](#).
- DVB_DASH_2014 - The output is compliant with DVB-DASH 2014. For more information about DVB-DASH 2014, see the [DVB-DASH specification](#).

Type: string

Required: False

Values: NONE | HBBTV_1_5 | HYBRIDCAST | DVB_DASH_2014

utcTiming

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

Type: string

Required: False

Values: NONE | HTTP-HEAD | HTTP-ISO | HTTP-XSDATE

manifestLayout

Determines the position of some tags in the manifest.

Value description:

- 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.

Value description:

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

Required: False

streamSelection

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

Type: [StreamSelection](#)

Required: False

includeIframeOnlyStream

When enabled, an I-Frame only stream will be included in the output.

Type: boolean

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](#)

Required: False

EncryptionContractConfiguration

Use `encryptionContractConfiguration` to configure one or more content encryption keys for your endpoints that use SPEKE Version 2.0. The encryption contract defines the content keys used to encrypt the audio and video tracks in your stream. To configure the encryption contract, specify which audio and video encryption presets to use. For more information about these presets, see [SPEKE Version 2.0 Presets](#)

Note the following considerations when using `encryptionContractConfiguration`:

- You can use `encryptionContractConfiguration` for DASH endpoints that use SPEKE Version 2.0. SPEKE Version 2.0 relies on the CPIX Version 2.3 specification.
- You must disable key rotation for this endpoint by setting `keyRotationIntervalSeconds` to 0.
- You cannot combine an UNENCRYPTED preset with UNENCRYPTED or SHARED presets across `presetSpeke20Audio` and `presetSpeke20Video`.
- When you use a SHARED preset, you must use it for both `presetSpeke20Audio` and `presetSpeke20Video`.

presetSpeke20Audio

A collection of audio encryption presets.

Value description:

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

Type: string

Required: True

Values: PRESET-AUDIO-1 | PRESET-AUDIO-2 | PRESET-AUDIO-3 | SHARED | UNENCRYPTED

presetSpeke20Video

A collection of video encryption presets.

Value description:

- PRESET-VIDEO-1 - Use one content key to encrypt all of the video tracks in your stream.
- PRESET-VIDEO-2 - Use one content key to encrypt all of the SD video tracks and one content key for all HD and higher resolutions video tracks.
- PRESET-VIDEO-3 - Use one content key to encrypt all of the SD video tracks, one content key for HD video tracks and one content key for all UHD video tracks.
- PRESET-VIDEO-4 - Use one content key to encrypt all of the SD video tracks, one content key for HD video tracks, one content key for all UHD1 video tracks and one content key for all UHD2 video tracks.
- PRESET-VIDEO-5 - Use one content key to encrypt all of the SD video tracks, one content key for HD1 video tracks, one content key for HD2 video tracks, one content key for all UHD1 video tracks and one content key for all UHD2 video tracks.
- PRESET-VIDEO-6 - Use one content key to encrypt all of the SD video tracks, one content key for HD1 video tracks, one content key for HD2 video tracks and one content key for all UHD video tracks.
- PRESET-VIDEO-7 - Use one content key to encrypt all of the SD+HD1 video tracks, one content key for HD2 video tracks and one content key for all UHD video tracks.
- PRESET-VIDEO-8 - Use one content key to encrypt all of the SD+HD1 video tracks, one content key for HD2 video tracks, one content key for all UHD1 video tracks and one content key for all UHD2 video tracks.
- SHARED - Use the same content key for all of the video and audio tracks in your stream.
- UNENCRYPTED - Don't encrypt any of the video tracks in your stream.

Type: string

Required: True

Values: PRESET-VIDEO-1 | PRESET-VIDEO-2 | PRESET-VIDEO-3 | PRESET-VIDEO-4
| PRESET-VIDEO-5 | PRESET-VIDEO-6 | PRESET-VIDEO-7 | PRESET-VIDEO-8 |
SHARED | UNENCRYPTED

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](#)

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.

Value description:

- 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.
- DATERANGE - Inserts SCTE-35 EXT-X-DATERANGE tags to signal ad and program transition events in HLS and CMAF manifests. If you use DATERANGE, you must set a `programDateTimeIntervalSeconds` value greater than 0. To learn more about DATERANGE, see [SCTE-35 Ad Marker EXT-X-DATERANGE](#).

Type: string

Required: False

Values: NONE | SCTE35_ENHANCED | PASSTHROUGH | DATERANGE

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 in seconds between each `EXT-XPROGRAM-DATE-TIME` tag. If the interval is not specified, or is set to 0, then no `EXT-X-PROGRAM-DATE-TIME` tags will be inserted in the manifest.

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

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

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.

Value description:

- 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.
- DATERANGE - Inserts SCTE-35 EXT-X-DATERANGE tags to signal ad and program transition events in HLS and CMAF manifests. If you use DATERANGE, you must set a `programDateTimeIntervalSeconds` value greater than 0. To learn more about DATERANGE, see [SCTE-35 Ad Marker EXT-X-DATERANGE](#).

Type: string

Required: False

Values: NONE | SCTE35_ENHANCED | PASSTHROUGH | DATERANGE

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 in seconds between each EXT-XPROGRAM-DATE-TIME tag. If the interval is not specified, or is set to 0, then no EXT-X-PROGRAM-DATE-TIME tags will be inserted in the manifest.

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

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

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](#)

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.

Value description:

- 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.
- DATERANGE - Inserts SCTE-35 EXT-X-DATERANGE tags to signal ad and program transition events in HLS and CMAF manifests. If you use DATERANGE, you must set a `programDateTimeIntervalSeconds` value greater than 0. To learn more about DATERANGE, see [SCTE-35 Ad Marker EXT-X-DATERANGE](#).

Type: string

Required: False

Values: NONE | SCTE35_ENHANCED | PASSTHROUGH | DATERANGE

encryption

Parameters for encrypting content.

Type: [HlsEncryption](#)

Required: False

playlistWindowSeconds

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

Type: integer

Required: False

includeDvbSubtitles

When enabled, MediaPackage passes through digital video broadcasting (DVB) subtitles into the output.

Type: boolean

Required: False

programDateTimeIntervalSeconds

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify in seconds between each EXT-XPROGRAM-DATE-TIME tag. If the interval is not specified, or is set to 0, then no EXT-X-PROGRAM-DATE-TIME tags will be inserted in the manifest.

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

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

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](#)

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](#)

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](#)

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](#)

Required: False

streamSelection

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

Type: [StreamSelection](#)

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](#)

Required: False

whitelist

The IP addresses that can access this endpoint.

Type: Array of type string

Required: False

cmafPackage

Parameters for CMAF packaging.

Type: [CmafPackage](#)

Required: False

hlsPackage

Parameters for Apple HLS packaging.

Type: [HlsPackage](#)

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](#)

Required: False

authorization

Parameters for CDN authorization.

Type: [Authorization](#)

Required: False

createdAt

The date and time the OriginEndpoint was created.

Type: string

Required: False

origination

Controls video origination from this endpoint.

Value description:

- ALLOW - Enables this endpoint to serve content to requesting devices.
- DENY - Prevents this endpoint from serving content. Denying origination is helpful for harvesting live-to-VOD assets. For more information about harvesting and origination, see [Live-to-VOD Requirements](#).

Type: string

Required: False

Values: ALLOW | DENY

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](#)

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

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](#)

Required: False

whitelist

The IP addresses that can access this endpoint.

Type: Array of type string

Required: False

cmafPackage

Parameters for Common Media Application Format (CMAF) packaging.

Type: [CmafPackageCreateOrUpdateParameters](#)

Required: False

hlsPackage

Parameters for Apple HLS packaging.

Type: [HlsPackage](#)

Required: False

tags

The tags to assign to the endpoint.

Type: [Tags](#)

Required: False

authorization

Parameters for CDN authorization.

Type: [Authorization](#)

Required: False

origination

Controls video origination from this endpoint.

Value description:

- **ALLOW** - Enables this endpoint to serve content to requesting devices.
- **DENY** - Prevents this endpoint from serving content. Denying origination is helpful for harvesting live-to-VOD assets. For more information about harvesting and origination, see [Live-to-VOD Requirements](#).

Type: string

Required: False

Values: ALLOW | DENY

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

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

channelId

The ID of the channel associated with this endpoint.

Type: string

Required: True

mssPackage

Parameters for Microsoft Smooth Streaming packaging.

Type: [MssPackage](#)

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](#)

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.

encryptionContractConfiguration

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

Type: [EncryptionContractConfiguration](#)

Required: False

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.

Value description:

- **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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateOriginEndpoint

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Origin_endpoints id

URI

/origin_endpoints/*id*

HTTP methods

GET

Operation ID: DescribeOriginEndpoint

Provides details about an endpoint.

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	OriginEndpoint	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

Status code	Response model	Description
422	None	<p>AWS Elemental MediaPackage did not find a representation of the target resource.</p> <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>One of these two error conditions:</p> <p>Too many requests have been sent in a given amount of time.</p> <p>Your account has exceeded the quota allotted for the resource that you're creating.</p>
500	None	<p>500 Internal Server Error response</p> <p>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</p>

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

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.

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	OriginEndpoint	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>One of these two error conditions:</p> <p>Too many requests have been sent in a given amount of time.</p> <p>Your account has exceeded the quota allotted for the resource that you're creating.</p>

Status code	Response model	Description
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.

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

Status code	Response model	Description
403	None	<p>AWS Elemental MediaPackage accepted the request but has not processed it yet.</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>One of these two error conditions:</p> <p>Too many requests have been sent in a given amount of time.</p> <p>Your account has exceeded the quota allotted for the resource that you're creating.</p>

Status code	Response model	Description
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>

OPTIONS

Enable CORS by returning correct headers.

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	None	Default response for CORS method.

Schemas

Request bodies

PUT schema

```
{
  "authorization": {
    "cdnIdentifierSecret": "string",
    "secretsRoleArn": "string"
  },
  "startoverWindowSeconds": integer,
  "origination": enum,
  "timeDelaySeconds": integer,
  "manifestName": "string",
  "description": "string",
  "dashPackage": {
    "manifestWindowSeconds": integer,
    "segmentDurationSeconds": integer,
    "utcTimingUri": "string",
    "profile": enum,
    "utcTiming": enum,
    "manifestLayout": enum,
    "segmentTemplateFormat": enum,
    "minUpdatePeriodSeconds": integer,
    "minBufferTimeSeconds": integer,
    "encryption": {
      "keyRotationIntervalSeconds": integer,
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
          "presetSpeke20Audio": enum,
          "presetSpeke20Video": enum
        },
        "resourceId": "string",
        "certificateArn": "string",
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    },
    "streamSelection": {
```

```

    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "includeIframeOnlyStream": boolean,
  "periodTriggers": [
    enum
  ],
  "suggestedPresentationDelaySeconds": integer,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"whitelist": [
  "string"
],
"cmfPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "constantInitializationVector": "string",
    "keyRotationIntervalSeconds": integer,
    "encryptionMethod": enum,
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "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": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "playlistWindowSeconds": integer,
  "includeDvbSubtitles": boolean,
  "programDateTimeIntervalSeconds": integer,
  "playlistType": enum,
  "streamSelection": {
    "streamOrder": enum,

```

```

    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "includeIframeOnlyStream": boolean,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"mssPackage": {
  "manifestWindowSeconds": integer,
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  }
}
}
}

```

Response bodies

OriginEndpoint schema

```

{
  "startoverWindowSeconds": integer,
  "manifestName": "string",
  "description": "string",

```

```
"dashPackage": {
  "manifestWindowSeconds": integer,
  "segmentDurationSeconds": integer,
  "utcTimingUri": "string",
  "profile": enum,
  "utcTiming": enum,
  "manifestLayout": enum,
  "segmentTemplateFormat": enum,
  "minUpdatePeriodSeconds": integer,
  "minBufferTimeSeconds": integer,
  "encryption": {
    "keyRotationIntervalSeconds": integer,
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "resourceId": "string",
      "certificateArn": "string",
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "streamSelection": {
    "streamOrder": enum,
    "maxVideoBitsPerSecond": integer,
    "minVideoBitsPerSecond": integer
  },
  "includeIframeOnlyStream": boolean,
  "periodTriggers": [
    enum
  ],
  "suggestedPresentationDelaySeconds": integer,
  "adTriggers": [
    enum
  ],
  "adsOnDeliveryRestrictions": enum
},
"whitelist": [
  "string"
],
```

```

"cmfPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "constantInitializationVector": "string",
    "keyRotationIntervalSeconds": integer,
    "encryptionMethod": enum,
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "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": {
  "encryptionContractConfiguration": {
    "presetSpeke20Audio": enum,
    "presetSpeke20Video": enum
  },
  "resourceId": "string",
  "certificateArn": "string",
  "systemIds": [
    "string"
  ],
  "roleArn": "string",
  "url": "string"
},
"playlistWindowSeconds": integer,
"includeDvbSubtitles": boolean,
"programDateTimeIntervalSeconds": integer,
"playlistType": enum,
"streamSelection": {
  "streamOrder": enum,
  "maxVideoBitsPerSecond": integer,
  "minVideoBitsPerSecond": integer
},
"includeIframeOnlyStream": boolean,
"adTriggers": [
  enum
],
"adsOnDeliveryRestrictions": enum
},
"url": "string",
"tags": {
},
"authorization": {
  "cdnIdentifierSecret": "string",
  "secretsRoleArn": "string"
},
"createdAt": "string",
"origination": enum,
"timeDelaySeconds": integer,
"id": "string",
```

```

"arn": "string",
"channelId": "string",
"mssPackage": {
  "manifestWindowSeconds": integer,
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "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.

Value description:

- 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

Authorization

Parameters for enabling CDN authorization on the endpoint.

cdnIdentifierSecret

The Amazon Resource Name (ARN) for the secret in AWS Secrets Manager that your Content Delivery Network (CDN) uses for authorization to access your endpoint.

Type: string
Required: True

secretsRoleArn

The Amazon Resource Name (ARN) for the IAM role that allows MediaPackage to communicate with AWS Secrets Manager.

Type: string
Required: True

CmafEncryption

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

constantInitializationVector

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

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

The encryption method to use.

Type: [CmafEncryptionMethod](#)

Required: False

spekeKeyProvider

Parameters for the SPEKE key provider.

Type: [SpekeKeyProvider](#)

Required: True

CmafEncryptionMethod

The encryption method to use.

SAMPLE_AES

AES_CTR

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](#)

Required: False

hlsManifests

A list of HLS manifest configurations available from this endpoint.

Type: Array of type [HlsManifest](#)

Required: False

streamSelection

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

Type: [StreamSelection](#)

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](#)

Required: False

hlsManifests

A list of HLS manifest configurations available from this endpoint.

Type: Array of type [HlsManifestCreateOrUpdateParameters](#)

Required: False

streamSelection

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

Type: [StreamSelection](#)

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](#)

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

utcTimingUri

Specifies the value attribute of the UTC timing field when utcTiming is set to HTTP-ISO or HTTP-HEAD.

Type: string

Required: False

profile

The DASH profile for the output.

Value description:

- NONE - The output doesn't use a DASH profile.
- HBBTV_1_5 - The output is compliant with HbbTV v1.5. For information about HbbTV v1.5, see the [HbbTV specification website](#).
- HYBRIDCAST - The output is compliant with Hybridcast. For more information about Hybridcast, see the [IPTV Forum Japan Hybridcast specification](#).
- DVB_DASH_2014 - The output is compliant with DVB-DASH 2014. For more information about DVB-DASH 2014, see the [DVB-DASH specification](#).

Type: string

Required: False

Values: NONE | HBBTV_1_5 | HYBRIDCAST | DVB_DASH_2014

utcTiming

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

Type: string

Required: False

Values: NONE | HTTP-HEAD | HTTP-ISO | HTTP-XSDATE

manifestLayout

Determines the position of some tags in the manifest.

Value description:

- 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.

Value description:

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

Required: False

streamSelection

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

Type: [StreamSelection](#)

Required: False

includeIframeOnlyStream

When enabled, an I-Frame only stream will be included in the output.

Type: boolean

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](#)
Required: False

EncryptionContractConfiguration

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

which audio and video encryption presets to use. For more information about these presets, see [SPEKE Version 2.0 Presets](#)

Note the following considerations when using `encryptionContractConfiguration`:

- You can use `encryptionContractConfiguration` for DASH endpoints that use SPEKE Version 2.0. SPEKE Version 2.0 relies on the CPIX Version 2.3 specification.
- You must disable key rotation for this endpoint by setting `keyRotationIntervalSeconds` to 0.
- You cannot combine an UNENCRYPTED preset with UNENCRYPTED or SHARED presets across `presetSpeke20Audio` and `presetSpeke20Video`.
- When you use a SHARED preset, you must use it for both `presetSpeke20Audio` and `presetSpeke20Video`.

presetSpeke20Audio

A collection of audio encryption presets.

Value description:

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

Type: string

Required: True

Values: PRESET-AUDIO-1 | PRESET-AUDIO-2 | PRESET-AUDIO-3 | SHARED | UNENCRYPTED

presetSpeke20Video

A collection of video encryption presets.

Value description:

- PRESET-VIDEO-1 - Use one content key to encrypt all of the video tracks in your stream.
- PRESET-VIDEO-2 - Use one content key to encrypt all of the SD video tracks and one content key for all HD and higher resolutions video tracks.
- PRESET-VIDEO-3 - Use one content key to encrypt all of the SD video tracks, one content key for HD video tracks and one content key for all UHD video tracks.
- PRESET-VIDEO-4 - Use one content key to encrypt all of the SD video tracks, one content key for HD video tracks, one content key for all UHD1 video tracks and one content key for all UHD2 video tracks.
- PRESET-VIDEO-5 - Use one content key to encrypt all of the SD video tracks, one content key for HD1 video tracks, one content key for HD2 video tracks, one content key for all UHD1 video tracks and one content key for all UHD2 video tracks.
- PRESET-VIDEO-6 - Use one content key to encrypt all of the SD video tracks, one content key for HD1 video tracks, one content key for HD2 video tracks and one content key for all UHD video tracks.
- PRESET-VIDEO-7 - Use one content key to encrypt all of the SD+HD1 video tracks, one content key for HD2 video tracks and one content key for all UHD video tracks.
- PRESET-VIDEO-8 - Use one content key to encrypt all of the SD+HD1 video tracks, one content key for HD2 video tracks, one content key for all UHD1 video tracks and one content key for all UHD2 video tracks.
- SHARED - Use the same content key for all of the video and audio tracks in your stream.
- UNENCRYPTED - Don't encrypt any of the video tracks in your stream.

Type: string

Required: True

Values: PRESET-VIDEO-1 | PRESET-VIDEO-2 | PRESET-VIDEO-3 | PRESET-VIDEO-4 | PRESET-VIDEO-5 | PRESET-VIDEO-6 | PRESET-VIDEO-7 | PRESET-VIDEO-8 | SHARED | UNENCRYPTED

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](#)

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.

Value description:

- 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.
- DATERANGE - Inserts SCTE-35 EXT-X-DATERANGE tags to signal ad and program transition events in HLS and CMAF manifests. If you use DATERANGE, you must set a `programDateTimeIntervalSeconds` value greater than 0. To learn more about DATERANGE, see [SCTE-35 Ad Marker EXT-X-DATERANGE](#).

Type: string

Required: False

Values: NONE | SCTE35_ENHANCED | PASSTHROUGH | DATERANGE

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 in seconds between each EXT-XPROGRAM-DATE-TIME tag. If the interval is not specified, or is set to 0, then no EXT-X-PROGRAM-DATE-TIME tags will be inserted in the manifest.

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

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

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.

Value description:

- 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.
- DATERANGE - Inserts SCTE-35 EXT-X-DATERANGE tags to signal ad and program transition events in HLS and CMAF manifests. If you use DATERANGE, you must set a `programDateTimeIntervalSeconds` value greater than 0. To learn more about DATERANGE, see [SCTE-35 Ad Marker EXT-X-DATERANGE](#).

Type: string

Required: False

Values: NONE | SCTE35_ENHANCED | PASSTHROUGH | DATERANGE

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 in seconds between each EXT-XPROGRAM-DATE-TIME tag. If the interval is not specified, or is set to 0, then no EXT-X-PROGRAM-DATE-TIME tags will be inserted in the manifest.

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

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

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](#)

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.

Value description:

- 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.
- DATERANGE - Inserts SCTE-35 EXT-X-DATERANGE tags to signal ad and program transition events in HLS and CMAF manifests. If you use DATERANGE, you must set a `programDateTimeIntervalSeconds` value greater than 0. To learn more about DATERANGE, see [SCTE-35 Ad Marker EXT-X-DATERANGE](#).

Type: string

Required: False

Values: NONE | SCTE35_ENHANCED | PASSTHROUGH | DATERANGE

encryption

Parameters for encrypting content.

Type: [HlsEncryption](#)

Required: False

playlistWindowSeconds

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

Type: integer

Required: False

includeDvbSubtitles

When enabled, MediaPackage passes through digital video broadcasting (DVB) subtitles into the output.

Type: boolean

Required: False

programDateTimeIntervalSeconds

Inserts EXT-X-PROGRAM-DATE-TIME tags in the output manifest at the interval that you specify in seconds between each EXT-XPROGRAM-DATE-TIME tag. If the interval is not specified, or is set to 0, then no EXT-X-PROGRAM-DATE-TIME tags will be inserted in the manifest.

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

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

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](#)

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](#)

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](#)

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](#)

Required: False

streamSelection

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

Type: [StreamSelection](#)

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](#)

Required: False

whitelist

The IP addresses that can access this endpoint.

Type: Array of type string

Required: False

cmafPackage

Parameters for CMAF packaging.

Type: [CmafPackage](#)

Required: False

hlsPackage

Parameters for Apple HLS packaging.

Type: [HlsPackage](#)

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](#)

Required: False

authorization

Parameters for CDN authorization.

Type: [Authorization](#)

Required: False

createdAt

The date and time the OriginEndpoint was created.

Type: string

Required: False

origination

Controls video origination from this endpoint.

Value description:

- ALLOW - Enables this endpoint to serve content to requesting devices.
- DENY - Prevents this endpoint from serving content. Denying origination is helpful for harvesting live-to-VOD assets. For more information about harvesting and origination, see [Live-to-VOD Requirements](#).

Type: string

Required: False

Values: ALLOW | DENY

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](#)

Required: False

OriginEndpointUpdateParameters

OriginEndpoint configuration

authorization

Parameters for CDN authorization.

Type: [Authorization](#)

Required: False

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

origination

Controls video origination from this endpoint.

Value description:

- ALLOW - Enables this endpoint to serve content to requesting devices.
- DENY - Prevents this endpoint from serving content. Denying origination is helpful for harvesting live-to-VOD assets. For more information about harvesting and origination, see [Live-to-VOD Requirements](#).

Type: string

Required: False

Values: ALLOW | DENY

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](#)

Required: False

whitelist

The IP addresses that can access this endpoint.

Type: Array of type string

Required: False

cmafPackage

Parameters for CMAF packaging.

Type: [CmafPackageCreateOrUpdateParameters](#)

Required: False

hlsPackage

Parameters for Apple HLS packaging.

Type: [HlsPackage](#)

Required: False

mssPackage

Parameters for Microsoft Smooth Streaming packaging.

Type: [MssPackage](#)

Required: False

SpekeKeyProvider

Keyprovider settings for DRM.

encryptionContractConfiguration

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

Type: [EncryptionContractConfiguration](#)

Required: False

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.

Value description:

- **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 V2](#)
- [AWS SDK for .NET V4](#)

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

UpdateOriginEndpoint

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
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DeleteOriginEndpoint

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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	tagsModel	200 OK response

Status code	Response model	Description
		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.

OPTIONS

Enable CORS by returning correct headers.

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	None	Default response for CORS method.

Schemas

Request bodies

POST schema

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

Response bodies

tagsModel schema

```
{
  "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 V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
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TagResource

- [AWS Command Line Interface V2](#)
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UntagResource

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Document History

The following table describes important changes to this documentation.

- **API version: latest**

Change	Description	Date
New createdAt field	MediaPackage now provides the date and time the PackagingGroup and PackagingConfiguration were created.	March 8, 2023
New CmafEncryptionMethod method	MediaPackage now supports AES-CTR encryption to encrypted CMAF endpoints.	September 2, 2022
Updated EncryptionContract Configuration	Updates related to SPEKE Version 2.0 presets.	July 19, 2022
New CmafEncryption.constantInitializationVector field	MediaPackage now supports constant initialization vectors for CMAF encryption.	April 20, 2021
CDN authentication release	Document settings to enable CDN authentication on an endpoint.	December 23, 2019
Live-to-VOD release	Document harvest_jobs, the resource used for live-to-VOD asset creation.	October 1, 2019
Configurable SCTE-35 marker handling release	Document additional options that MediaPackage provides for configuring how SCTE-35	June 21, 2019

Change	Description	Date
	markers are treated in output manifests.	
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 Glossary Reference*.