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# AWS Elemental MediaPackage

## VOD API Reference



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

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## Table of Contents

What Is the AWS Elemental MediaPackage VOD API Reference? .....	1
Resources .....	2
Assets .....	2
URI .....	2
HTTP methods .....	2
Schemas .....	5
Properties .....	6
Assets id .....	10
URI .....	10
HTTP methods .....	10
Schemas .....	13
Properties .....	13
Packaging_configurations .....	15
URI .....	15
HTTP methods .....	16
Schemas .....	18
Properties .....	25
Packaging_configurations id .....	37
URI .....	37
HTTP methods .....	38
Schemas .....	40
Properties .....	43
Packaging_groups .....	54
URI .....	54
HTTP methods .....	54
Schemas .....	57
Properties .....	58
Packaging_groups id .....	60
URI .....	60
HTTP methods .....	61
Schemas .....	65
Properties .....	65
Packaging_groups id Configure_logs .....	67
URI .....	67
HTTP methods .....	67
Schemas .....	69
Properties .....	69
Tags resource-arn .....	71
URI .....	72
HTTP methods .....	72
Schemas .....	73
Properties .....	74
Document History .....	75
AWS glossary .....	76

# What Is the AWS Elemental MediaPackage VOD API Reference?

This is the AWS Elemental MediaPackage VOD REST API Reference. It contains examples of REST resources and their operations for video on demand (VOD).

For the AWS Elemental MediaPackage Live REST API Reference, see [AWS Elemental MediaPackage API Reference](#).

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

The AWS Elemental MediaPackage VOD API comprises of three main resources: the asset, the packaging group, and the packaging configuration. The asset is the entry point to AWS Elemental MediaPackage VOD. A packaging group is associated with the asset, and holds one or more packaging configurations. The packaging configurations are the exit points from AWS Elemental MediaPackage VOD. The packaging configuration determines how outputs from this asset are formatted.

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

Step 1: Create a packaging group.

The packaging group holds one or more packaging configurations. You can create the group once and associate multiple assets with it, so that they all use the same packaging configurations.

Step 2: Create packaging configurations.

The packaging configuration is held in a packaging group and is attached to an asset. The configuration represents the output of the content from AWS Elemental MediaPackage. Each configuration provides downstream content distribution networks (CDNs) and players access to the content for playback.

Step 3: Create an asset.

The asset represents the input to AWS Elemental MediaPackage VOD. Associate a packaging group to the asset so that content can be served for playback. When you create the asset, it initiates ingest of your specified source content from Amazon S3.

Step 4: Integrate AWS Elemental MediaPackage VOD.

When the asset is created and a packaging group is associated with it, AWS Elemental MediaPackage provides URLs for each packaging configuration on the asset. In the CDN or player, enter the configuration URL from the asset as the content request address.

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

# Resources

The AWS Elemental MediaPackage VOD REST API includes the following resources.

## Topics

- [Assets](#) (p. 2)
- [Assets id](#) (p. 10)
- [Packaging\\_configurations](#) (p. 15)
- [Packaging\\_configurations id](#) (p. 37)
- [Packaging\\_groups](#) (p. 54)
- [Packaging\\_groups id](#) (p. 60)
- [Packaging\\_groups id Configure\\_logs](#) (p. 67)
- [Tags resource-arn](#) (p. 71)

## Assets

### URI

/prod/assets

### HTTP methods

#### GET

**Operation ID:** ListAssets

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

#### Query parameters

Name	Type	Required	Description
packagingGroupId	String	False	Limits the results to records that are associated with the given packaging group.
nextToken	String	False	Pagination token. Use this token to request the next page of record results.
maxResults	String	False	Upper bound on number of records to return.

## Responses

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

## POST

### Operation ID: CreateAsset

Creates an asset to ingest VOD content.

Once created, the asset starts ingesting content and generates playback URLs for the packaging configurations associated with it. When ingest is complete, downstream devices request VOD content from AWS Elemental MediaPackage using the appropriate URL.

## Responses

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

## OPTIONS

Enable cross-origin resource sharing (CORS) by returning correct headers.

### Responses

Status code	Response model	Description
200	None	200 OK response  The list of tags is returned successfully.

## Schemas

### Request bodies

#### POST schema

```
{
  "packagingGroupId": "string",
  "sourceArn": "string",
  "resourceId": "string",
  "sourceRoleArn": "string",
  "id": "string",
  "tags": {
  }
}
```

### Response bodies

#### AssetList schema

```
{
  "assets": [
    {
      "createdAt": "string",
      "packagingGroupId": "string",
      "sourceArn": "string",
      "resourceId": "string",
      "sourceRoleArn": "string",
      "id": "string",
      "arn": "string",
      "tags": {
      }
    }
  ],
  "nextToken": "string"
}
```

#### Asset schema

```
{
  "createdAt": "string",
```



```
"packagingGroupId": "string",
"sourceArn": "string",
"resourceId": "string",
"sourceRoleArn": "string",
"id": "string",
"arn": "string",
"egressEndpoints": [
  {
    "packagingConfigurationId": "string",
    "url": "string",
    "status": "string"
  }
],
"tags": {
}
```

## Properties

### Asset

Parameters for an asset.

#### **createdAt**

The time the Asset was initially submitted for Ingest.

**Type:** string

**Required:** False

#### **packagingGroupId**

The ID of the packaging group associated with this asset.

**Type:** string

**Required:** False

#### **sourceArn**

The ARN for the source content in Amazon S3.

**Type:** string

**Required:** False

#### **resourceId**

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

**Type:** string

**Required:** False

#### **sourceRoleArn**

The ARN for the IAM role that provides AWS Elemental MediaPackage access to the Amazon S3 bucket where the source content is stored. Valid format: `arn:aws:iam::{accountID}:role/{name}`

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

### **id**

Unique identifier that you assign to the asset.

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

### **arn**

The Amazon Resource Name (ARN) for the asset. You can get this from the response to any request to the asset.

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

### **egressEndpoints**

List of playback endpoints that are available for this asset.

**Type:** Array of type [EgressEndpoint \(p. 9\)](#)  
**Required:** False

### **tags**

The tags to assign to the asset.

**Type:** [Tags \(p. 10\)](#)  
**Required:** False

## **AssetCreateParameters**

Parameters for creating an asset.

### **packagingGroupId**

The ID of the packaging group associated with this asset.

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

### **sourceArn**

The ARN for the source content in Amazon S3.

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

### **resourceId**

Unique identifier for this asset, as it's configured in the key provider service.

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

### **sourceRoleArn**

The ARN for the IAM role that provides AWS Elemental MediaPackage access to the Amazon S3 bucket where the source content is stored. Valid format: arn:aws:iam::{accountID}:role/{name}

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

### **id**

Unique identifier that you assign to the asset.

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

### **tags**

The tags to assign to the asset.

**Type:** [Tags \(p. 10\)](#)  
**Required:** False

## **AssetList**

A collection of Asset records.

### **assets**

A list of Asset records that are configured on this account in this AWS Region.

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

### **nextToken**

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

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

## **AssetShallow**

Parameters on an asset.

### **createdAt**

The time the Asset was initially submitted for Ingest.

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

### **packagingGroupId**

The ID of the packaging group associated with this asset.

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

### **sourceArn**

The ARN for the source content in Amazon S3.

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

### **resourceId**

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

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

### **sourceRoleArn**

The ARN for the IAM role that provides AWS Elemental MediaPackage access to the Amazon S3 bucket where the source content is stored. Valid format: arn:aws:iam::{accountID}:role/{name}

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

### **id**

Unique identifier that you assigned to the asset.

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

### **arn**

The Amazon Resource Name (ARN) for the asset. You can get this from the response to any request to the asset.

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

### **tags**

The tags to assign to the asset.

**Type:** [Tags \(p. 10\)](#)  
**Required:** False

## **EgressEndpoint**

The playback endpoint for a packaging configuration on an asset.

### **packagingConfigurationId**

The ID of a packaging configuration that's applied to this asset.

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

### **url**

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

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

### **status**

The current processing status of the asset used for the packaging configuration. The status can be QUEUED, PROCESSING, PLAYABLE, or FAILED. Status information isn't available for most assets ingested before September 30th, 2021.

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

## Tags

A collection of tags associated with a resource.

### **key-value pairs**

**Type:** string

## Assets id

### URI

/prod/assets/*id*

### HTTP methods

#### GET

**Operation ID:** DescribeAsset

Provides details about an asset.

#### Path parameters

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

## Responses

Status code	Response model	Description
200	<a href="#">Asset (p. 13)</a>	200 OK response  The list of tags is returned successfully.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.
503	None	Service unavailable response  AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

## DELETE

**Operation ID:** DeleteAsset

Permanently deletes an asset.

### Path parameters

Name	Type	Required	Description
<i>id</i>	String	True	Identifier for the object that you're 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>Too many requests have been sent in a given amount of time.</p>
500	None	<p>500 Internal Server Error response</p> <p>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</p>
503	None	<p>Service unavailable response</p> <p>AWS Elemental MediaPackage can't currently complete the request, usually because of</p>

Status code	Response model	Description
		a temporary overload or maintenance.

## OPTIONS

Enable cross-origin resource sharing (CORS) by returning correct headers.

### Path parameters

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

### Responses

Status code	Response model	Description
200	None	200 OK response  The list of tags is returned successfully.

## Schemas

### Response bodies

#### Asset schema

```
{
  "createdAt": "string",
  "packagingGroupId": "string",
  "sourceArn": "string",
  "resourceId": "string",
  "sourceRoleArn": "string",
  "id": "string",
  "arn": "string",
  "egressEndpoints": [
    {
      "packagingConfigurationId": "string",
      "url": "string",
      "status": "string"
    }
  ],
  "tags": {
  }
}
```

## Properties

### Asset

Parameters for an asset.



### **createdAt**

The time the Asset was initially submitted for Ingest.

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

### **packagingGroupId**

The ID of the packaging group associated with this asset.

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

### **sourceArn**

The ARN for the source content in Amazon S3.

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

### **resourceId**

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

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

### **sourceRoleArn**

The ARN for the IAM role that provides AWS Elemental MediaPackage access to the Amazon S3 bucket where the source content is stored. Valid format: `arn:aws:iam::{accountID}:role/{name}`

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

### **id**

Unique identifier that you assign to the asset.

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

### **arn**

The Amazon Resource Name (ARN) for the asset. You can get this from the response to any request to the asset.

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

### **egressEndpoints**

List of playback endpoints that are available for this asset.

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

**Required:** False

### tags

The tags to assign to the asset.

**Type:** [Tags](#) (p. 15)

**Required:** False

## EgressEndpoint

The playback endpoint for a packaging configuration on an asset.

### packagingConfigurationId

The ID of a packaging configuration that's applied to this asset.

**Type:** string

**Required:** False

### url

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

**Type:** string

**Required:** False

### status

The current processing status of the asset used for the packaging configuration. The status can be QUEUED, PROCESSING, PLAYABLE, or FAILED. Status information isn't available for most assets ingested before September 30th, 2021.

**Type:** string

**Required:** False

## Tags

A collection of tags associated with a resource.

### key-value pairs

**Type:** string

# Packaging\_configurations

## URI

/prod/packaging\_configurations

## HTTP methods

### GET

**Operation ID:** ListPackagingConfigurations

Lists packaging configurations that match a set of filters that you define.

#### Query parameters

Name	Type	Required	Description
packagingGroupId	String	False	Limits the results to records that are associated with the given packaging group.
nextToken	String	False	Pagination token. Use this token to request the next page of record results.
maxResults	String	False	Upper bound on number of records to return.

#### Responses

Status code	Response model	Description
200	<a href="#">PackagingConfigurationList</a> (200 OK)	The list of tags 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

Status code	Response model	Description
500	None	<p>Too many requests have been sent in a given amount of time.</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>

## POST

### Operation ID: CreatePackagingConfiguration

Creates a packaging configuration in a packaging group.

The packaging configuration represents a single delivery point for an asset. It determines how the output from this endpoint is formatted.

### Responses

Status code	Response model	Description
200	<a href="#">PackagingConfiguration</a> (p. 200) OK response	The list of tags is returned successfully.
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</p>

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

## OPTIONS

Enable cross-origin resource sharing (CORS) by returning correct headers.

### Responses

Status code	Response model	Description
200	None	200 OK response The list of tags is returned successfully.

## Schemas

### Request bodies

#### POST schema

```
{
  "packagingGroupId": "string",
  "dashPackage": {
    "includeEncoderConfigurationInSegments": boolean,
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
          "presetSpeke20Audio": enum,
          "presetSpeke20Video": enum
        }
      }
    }
  }
}
```

```

    },
    "systemIds": [
      "string"
    ],
    "roleArn": "string",
    "url": "string"
  }
},
"segmentTemplateFormat": enum,
"includeIframeOnlyStream": boolean,
"periodTriggers": [
  enum
],
"dashManifests": [
  {
    "minBufferTimeSeconds": integer,
    "manifestName": "string",
    "profile": enum,
    "manifestLayout": enum,
    "streamSelection": {
      "streamOrder": enum,
      "maxVideoBitsPerSecond": integer,
      "minVideoBitsPerSecond": integer
    },
    "scteMarkersSource": enum
  }
]
},
"id": "string",
"cmfPackage": {
  "includeEncoderConfigurationInSegments": boolean,
  "segmentDurationSeconds": integer,
  "encryption": {
    "constantInitializationVector": "string",
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "systemIds": [
        "string"
      ],
    },
    "roleArn": "string",
    "url": "string"
  }
},
"hlsManifests": [
  {
    "repeatExtXKey": boolean,
    "adMarkers": enum,
    "manifestName": "string",
    "programDateTimeIntervalSeconds": integer,
    "streamSelection": {
      "streamOrder": enum,
      "maxVideoBitsPerSecond": integer,
      "minVideoBitsPerSecond": integer
    },
    "includeIframeOnlyStream": boolean
  }
]
},
"hlsPackage": {
  "useAudioRenditionGroup": boolean,
  "segmentDurationSeconds": integer,
  "encryption": {
    "constantInitializationVector": "string",

```

```

    "encryptionMethod": enum,
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "hlsManifests": [
    {
      "repeatExtXKey": boolean,
      "adMarkers": enum,
      "manifestName": "string",
      "programDateTimeIntervalSeconds": integer,
      "streamSelection": {
        "streamOrder": enum,
        "maxVideoBitsPerSecond": integer,
        "minVideoBitsPerSecond": integer
      },
      "includeIframeOnlyStream": boolean
    }
  ],
  "includeDvbSubtitles": boolean
},
"mssPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "mssManifests": [
    {
      "manifestName": "string",
      "streamSelection": {
        "streamOrder": enum,
        "maxVideoBitsPerSecond": integer,
        "minVideoBitsPerSecond": integer
      }
    }
  ]
},
"tags": {
}
}

```

## Response bodies

### PackagingConfigurationList schema

```
{
```

```

"nextToken": "string",
"packagingConfigurations": [
  {
    "packagingGroupId": "string",
    "dashPackage": {
      "includeEncoderConfigurationInSegments": boolean,
      "segmentDurationSeconds": integer,
      "encryption": {
        "spekeKeyProvider": {
          "encryptionContractConfiguration": {
            "presetSpeke20Audio": enum,
            "presetSpeke20Video": enum
          },
          "systemIds": [
            "string"
          ],
          "roleArn": "string",
          "url": "string"
        }
      },
      "segmentTemplateFormat": enum,
      "includeIframeOnlyStream": boolean,
      "periodTriggers": [
        enum
      ],
      "dashManifests": [
        {
          "minBufferTimeSeconds": integer,
          "manifestName": "string",
          "profile": enum,
          "manifestLayout": enum,
          "streamSelection": {
            "streamOrder": enum,
            "maxVideoBitsPerSecond": integer,
            "minVideoBitsPerSecond": integer
          },
          "scteMarkersSource": enum
        }
      ]
    },
    "id": "string",
    "arn": "string",
    "cmfPackage": {
      "includeEncoderConfigurationInSegments": boolean,
      "segmentDurationSeconds": integer,
      "encryption": {
        "constantInitializationVector": "string",
        "spekeKeyProvider": {
          "encryptionContractConfiguration": {
            "presetSpeke20Audio": enum,
            "presetSpeke20Video": enum
          },
          "systemIds": [
            "string"
          ],
          "roleArn": "string",
          "url": "string"
        }
      },
      "hlsManifests": [
        {
          "repeatExtXKey": boolean,
          "adMarkers": enum,
          "manifestName": "string",
          "programDateTimeIntervalSeconds": integer,
          "streamSelection": {

```



```

        "streamOrder": enum,
        "maxVideoBitsPerSecond": integer,
        "minVideoBitsPerSecond": integer
    },
    "includeIframeOnlyStream": boolean
}
]
},
"hlsPackage": {
    "useAudioRenditionGroup": boolean,
    "segmentDurationSeconds": integer,
    "encryption": {
        "constantInitializationVector": "string",
        "encryptionMethod": enum,
        "spekeKeyProvider": {
            "encryptionContractConfiguration": {
                "presetSpeke20Audio": enum,
                "presetSpeke20Video": enum
            },
            "systemIds": [
                "string"
            ],
            "roleArn": "string",
            "url": "string"
        }
    },
    "hlsManifests": [
        {
            "repeatExtXKey": boolean,
            "adMarkers": enum,
            "manifestName": "string",
            "programDateTimeIntervalSeconds": integer,
            "streamSelection": {
                "streamOrder": enum,
                "maxVideoBitsPerSecond": integer,
                "minVideoBitsPerSecond": integer
            },
            "includeIframeOnlyStream": boolean
        }
    ],
    "includeDvbSubtitles": boolean
},
"mssPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
        "spekeKeyProvider": {
            "encryptionContractConfiguration": {
                "presetSpeke20Audio": enum,
                "presetSpeke20Video": enum
            },
            "systemIds": [
                "string"
            ],
            "roleArn": "string",
            "url": "string"
        }
    },
    "mssManifests": [
        {
            "manifestName": "string",
            "streamSelection": {
                "streamOrder": enum,
                "maxVideoBitsPerSecond": integer,
                "minVideoBitsPerSecond": integer
            }
        }
    ]
}
}

```

```

    ]
  },
  "tags": {
  }
}
]
}

```

### PackagingConfiguration schema

```

{
  "packagingGroupId": "string",
  "dashPackage": {
    "includeEncoderConfigurationInSegments": boolean,
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
          "presetSpeke20Audio": enum,
          "presetSpeke20Video": enum
        },
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    },
    "segmentTemplateFormat": enum,
    "includeIframeOnlyStream": boolean,
    "periodTriggers": [
      enum
    ],
    "dashManifests": [
      {
        "minBufferTimeSeconds": integer,
        "manifestName": "string",
        "profile": enum,
        "manifestLayout": enum,
        "streamSelection": {
          "streamOrder": enum,
          "maxVideoBitsPerSecond": integer,
          "minVideoBitsPerSecond": integer
        },
        "scteMarkersSource": enum
      }
    ]
  },
  "id": "string",
  "arn": "string",
  "cmfPackage": {
    "includeEncoderConfigurationInSegments": boolean,
    "segmentDurationSeconds": integer,
    "encryption": {
      "constantInitializationVector": "string",
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
          "presetSpeke20Audio": enum,
          "presetSpeke20Video": enum
        },
        "systemIds": [
          "string"
        ],
        "roleArn": "string",

```

```

        "url": "string"
    }
},
"hlsManifests": [
    {
        "repeatExtXKey": boolean,
        "adMarkers": enum,
        "manifestName": "string",
        "programDateTimeIntervalSeconds": integer,
        "streamSelection": {
            "streamOrder": enum,
            "maxVideoBitsPerSecond": integer,
            "minVideoBitsPerSecond": integer
        },
        "includeIframeOnlyStream": boolean
    }
]
},
"hlsPackage": {
    "useAudioRenditionGroup": boolean,
    "segmentDurationSeconds": integer,
    "encryption": {
        "constantInitializationVector": "string",
        "encryptionMethod": enum,
        "spekeKeyProvider": {
            "encryptionContractConfiguration": {
                "presetSpeke20Audio": enum,
                "presetSpeke20Video": enum
            },
            "systemIds": [
                "string"
            ],
            "roleArn": "string",
            "url": "string"
        }
    },
    "hlsManifests": [
        {
            "repeatExtXKey": boolean,
            "adMarkers": enum,
            "manifestName": "string",
            "programDateTimeIntervalSeconds": integer,
            "streamSelection": {
                "streamOrder": enum,
                "maxVideoBitsPerSecond": integer,
                "minVideoBitsPerSecond": integer
            },
            "includeIframeOnlyStream": boolean
        }
    ],
    "includeDvbSubtitles": boolean
},
"mssPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
        "spekeKeyProvider": {
            "encryptionContractConfiguration": {
                "presetSpeke20Audio": enum,
                "presetSpeke20Video": enum
            },
            "systemIds": [
                "string"
            ],
            "roleArn": "string",
            "url": "string"
        }
    }
}

```

```
    },
    "mssManifests": [
      {
        "manifestName": "string",
        "streamSelection": {
          "streamOrder": enum,
          "maxVideoBitsPerSecond": integer,
          "minVideoBitsPerSecond": integer
        }
      }
    ]
  },
  "tags": {
  }
}
```

## Properties

### 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

#### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 36)

**Required:** True

### CmafPackage

Parameters for a packaging configuration that uses Common Media Application Format (CMAF) packaging.

#### includeEncoderConfigurationInSegments

When `includeEncoderConfigurationInSegments` is set to `true`, MediaPackage places your encoder's Sequence Parameter Set (SPS), Picture Parameter Set (PPS), and Video Parameter Set (VPS) metadata in every video segment instead of in the init fragment. This lets you use different SPS/PPS/VPS settings for your assets during content playback.

**Type:** boolean

**Required:** False

#### segmentDurationSeconds

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

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

### encryption

Parameters for encrypting content.

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

### hlsManifests

A list of HLS manifest configurations available from this endpoint.

**Type:** Array of type [HlsManifest](#) (p. 31)  
**Required:** True

## DashEncryption

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

### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 36)  
**Required:** True

## DashManifest

Parameters for a DASH manifest.

### minBufferTimeSeconds

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

**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 packaging configuration.

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

### profile

The DASH profile type 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](#).

**Type:** string  
**Required:** False  
**Values:** NONE | HBBTV\_1\_5

### **manifestLayout**

Determines the position of some tags in the Media Presentation Description (MPD).

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

### **streamSelection**

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

**Type:** [StreamSelection \(p. 37\)](#)  
**Required:** False

### **scteMarkersSource**

The source of scte markers used.

Value description:

- **SEGMENTS** - The scte markers are sourced from the segments of the ingested content.
- **MANIFEST** - the scte markers are sourced from the manifest of the ingested content. The MANIFEST value is compatible with source HLS playlists using the SCTE-35 Enhanced syntax (#EXT-OATCLS-SCTE35 tags). SCTE-35 Elemental and SCTE-35 Daterange syntaxes are not supported with this option.

**Type:** string  
**Required:** False  
**Values:** SEGMENTS | MANIFEST

## **DashPackage**

Parameters for a packaging configuration that uses Dynamic Adaptive Streaming over HTTP (DASH) packaging.

### **includeEncoderConfigurationInSegments**

When `includeEncoderConfigurationInSegments` is set to `true`, MediaPackage places your encoder's Sequence Parameter Set (SPS), Picture Parameter Set (PPS), and Video Parameter Set (VPS)

metadata in every video segment instead of in the init fragment. This lets you use different SPS/PPS/VPS settings for your assets during content playback.

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

### **segmentDurationSeconds**

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

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

### **encryption**

Parameters for encrypting content.

**Type:** [DashEncryption \(p. 26\)](#)  
**Required:** False

### **segmentTemplateFormat**

Determines the type of SegmentTemplate included in the Media Presentation Description (MPD).

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.
- **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.
- **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.

**Type:** string  
**Required:** False  
**Values:** NUMBER\_WITH\_TIMELINE | TIME\_WITH\_TIMELINE | NUMBER\_WITH\_DURATION

### **includeIframeOnlyStream**

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

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

### **periodTriggers**

A list of triggers that controls when the outgoing Dynamic Adaptive Streaming over HTTP (DASH) Media Presentation Description (MPD) will be partitioned into multiple periods.

Value description:

- NONE - The entire duration of the output manifest is included in a single period.
- ADS - Multiple periods are added to the output manifest based on SCTE-35 ad markers in the source video stream.

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

### dashManifests

A list of DASH manifest configurations available from this endpoint.

**Type:** Array of type [DashManifest \(p. 26\)](#)  
**Required:** True

## 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 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.

### **constantInitializationVector**

A 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 constant initialization vector (IV), MediaPackage periodically rotates the IV.

**Type:** string

**Required:** False

### **encryptionMethod**

HLS encryption type.

**Type:** string

**Required:** False

**Values:** AES\_128 | SAMPLE\_AES

### **spekeKeyProvider**

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 36)

**Required:** True

## **HlsManifest**

Parameters for an HLS manifest.

### **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

### **adMarkers**

This setting controls ad markers in the packaged content.

Value description:

- NONE - Omits SCTE-35 ad markers from the output.
- SCTE35\_ENHANCED - Generates ad markers and blackout tags in the output, based on SCTE-35 messages in the source content.
- PASSTHROUGH - Copies SCTE-35 ad markers from the source content to the output.

**Type:** string

**Required:** False

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

### **manifestName**

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

**Type:** string

**Required:** False

### **programDateTimeIntervalSeconds**

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

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

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

**Type:** integer

**Required:** False

### **streamSelection**

Video bitrate limitations for outputs from this packaging configuration.

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

**Required:** False

### **includeIframeOnlyStream**

Applies to stream sets with a single video track only. When enabled, the output includes an additional I-frame only trick-play stream, along with the other tracks.

**Type:** boolean

**Required:** False

## **HlsPackage**

Parameters for a packaging configuration that uses HTTP Live Streaming (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 will be rounded to the nearest multiple of the source fragment duration.

**Type:** integer

**Required:** False

### **encryption**

Parameters for encrypting content.

**Type:** [HlsEncryption \(p. 30\)](#)

**Required:** False

### **hlsManifests**

A list of HLS manifest configurations available from this endpoint.

**Type:** Array of type [HlsManifest \(p. 31\)](#)

**Required:** True

### **includeDvbSubtitles**

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

**Type:** boolean

**Required:** False

## MssEncryption

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

### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 36)

**Required:** True

## MssManifest

Parameters for a Microsoft Smooth manifest.

### manifestName

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

**Type:** string

**Required:** False

### streamSelection

Video bitrate limitations for outputs from this packaging configuration.

**Type:** [StreamSelection](#) (p. 37)

**Required:** False

## MssPackage

Parameters for a packaging configuration that uses Microsoft Smooth Streaming (MSS) packaging.

### segmentDurationSeconds

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

**Type:** integer

**Required:** False

### encryption

Parameters for encrypting content.

**Type:** [MssEncryption](#) (p. 33)

**Required:** False

### mssManifests

A list of Microsoft Smooth manifest configurations available from this endpoint.

**Type:** Array of type [MssManifest](#) (p. 33)

**Required:** True

## PackagingConfiguration

PackagingConfiguration.

### **packagingGroupId**

The ID of the packaging group associated with this packaging configuration.

**Type:** string

**Required:** False

### **dashPackage**

Parameters for DASH-ISO packaging.

**Type:** [DashPackage \(p. 27\)](#)

**Required:** False

### **id**

Unique identifier that you assign to the packaging configuration.

**Type:** string

**Required:** False

### **arn**

The Amazon Resource Name (ARN) for the packaging configuration. You can get this from the response to any request to the packaging configuration.

**Type:** string

**Required:** False

### **cmfPackage**

Parameters for CMAF packaging.

**Type:** [CmfPackage \(p. 25\)](#)

**Required:** False

### **hlsPackage**

Parameters for Apple HLS packaging.

**Type:** [HlsPackage \(p. 32\)](#)

**Required:** False

### **mssPackage**

Parameters for Microsoft Smooth Streaming packaging.

**Type:** [MssPackage \(p. 33\)](#)

**Required:** False

### **tags**

The tags to assign to the packaging configuration.

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

**Required:** False

## PackagingConfigurationCreateParameters

Parameters for creating a packaging configuration.

### **packagingGroupId**

The ID of the packaging group associated with this packaging configuration.

**Type:** string

**Required:** True

### **dashPackage**

Parameters for DASH-ISO packaging.

**Type:** [DashPackage \(p. 27\)](#)

**Required:** False

### **id**

Unique identifier that you assign to the packaging configuration.

**Type:** string

**Required:** True

### **cmfPackage**

Parameters for CMAF packaging.

**Type:** [CmfPackage \(p. 25\)](#)

**Required:** False

### **hlsPackage**

Parameters for Apple HLS packaging.

**Type:** [HlsPackage \(p. 32\)](#)

**Required:** False

### **mssPackage**

Parameters for Microsoft Smooth Streaming packaging.

**Type:** [MssPackage \(p. 33\)](#)

**Required:** False

### **tags**

The tags to assign to the packaging configuration.

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

**Required:** False

## **PackagingConfigurationList**

A collection of PackagingConfiguration records.

### **nextToken**

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

**Type:** string

**Required:** False

### **packagingConfigurations**

A list of PackagingConfiguration records.

**Type:** Array of type [PackagingConfiguration \(p. 34\)](#)

**Required:** False

## **SpekeKeyProvider**

A configuration for accessing an external Secure Packager and Encoder Key Exchange (SPEKE) service that will provide encryption keys.

### **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 \(p. 29\)](#)

**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.

#### **key-value pairs**

**Type:** string

# Packaging\_configurations id

## URI

/prod/packaging\_configurations/*id*



## HTTP methods

### GET

**Operation ID:** DescribePackagingConfiguration

Provides details about a packaging configuration.

#### Path parameters

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

#### Responses

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

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.

## DELETE

**Operation ID:** DeletePackagingConfiguration

Permanently deletes a packaging configuration.

### Path parameters

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

### Responses

Status code	Response model	Description
202	None	202 Accepted response  AWS Elemental MediaPackage accepted the request but has not processed it yet.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response

Status code	Response model	Description
500	None	<p>Too many requests have been sent in a given amount of time.</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 cross-origin resource sharing (CORS) by returning correct headers.

### Path parameters

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

### Responses

Status code	Response model	Description
200	None	<p>200 OK response</p> <p>The list of tags is returned successfully.</p>

## Schemas

### Response bodies

#### PackagingConfiguration schema

```
{
  "packagingGroupId": "string",
  "dashPackage": {
    "includeEncoderConfigurationInSegments": boolean,
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "encryptionContractConfiguration": {
```

```

        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
    },
    "systemIds": [
        "string"
    ],
    "roleArn": "string",
    "url": "string"
}
},
"segmentTemplateFormat": enum,
"includeIframeOnlyStream": boolean,
"periodTriggers": [
    enum
],
"dashManifests": [
    {
        "minBufferTimeSeconds": integer,
        "manifestName": "string",
        "profile": enum,
        "manifestLayout": enum,
        "streamSelection": {
            "streamOrder": enum,
            "maxVideoBitsPerSecond": integer,
            "minVideoBitsPerSecond": integer
        },
        "scteMarkersSource": enum
    }
]
},
"id": "string",
"arn": "string",
"cmfPackage": {
    "includeEncoderConfigurationInSegments": boolean,
    "segmentDurationSeconds": integer,
    "encryption": {
        "constantInitializationVector": "string",
        "spekeKeyProvider": {
            "encryptionContractConfiguration": {
                "presetSpeke20Audio": enum,
                "presetSpeke20Video": enum
            },
        },
        "systemIds": [
            "string"
        ],
    },
    "roleArn": "string",
    "url": "string"
}
},
"hlsManifests": [
    {
        "repeatExtXKey": boolean,
        "adMarkers": enum,
        "manifestName": "string",
        "programDateTimeIntervalSeconds": integer,
        "streamSelection": {
            "streamOrder": enum,
            "maxVideoBitsPerSecond": integer,
            "minVideoBitsPerSecond": integer
        },
        "includeIframeOnlyStream": boolean
    }
]
},
"hlsPackage": {
    "useAudioRenditionGroup": boolean,

```

```

"segmentDurationSeconds": integer,
"encryption": {
  "constantInitializationVector": "string",
  "encryptionMethod": enum,
  "spekeKeyProvider": {
    "encryptionContractConfiguration": {
      "presetSpeke20Audio": enum,
      "presetSpeke20Video": enum
    },
    "systemIds": [
      "string"
    ],
    "roleArn": "string",
    "url": "string"
  }
},
"hlsManifests": [
  {
    "repeatExtXKey": boolean,
    "adMarkers": enum,
    "manifestName": "string",
    "programDateTimeIntervalSeconds": integer,
    "streamSelection": {
      "streamOrder": enum,
      "maxVideoBitsPerSecond": integer,
      "minVideoBitsPerSecond": integer
    },
    "includeIframeOnlyStream": boolean
  }
],
"includeDvbSubtitles": boolean
},
"mssPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {
      "encryptionContractConfiguration": {
        "presetSpeke20Audio": enum,
        "presetSpeke20Video": enum
      },
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "mssManifests": [
    {
      "manifestName": "string",
      "streamSelection": {
        "streamOrder": enum,
        "maxVideoBitsPerSecond": integer,
        "minVideoBitsPerSecond": integer
      }
    }
  ]
},
"tags": {
}
}

```

## Properties

### 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

#### **spekeKeyProvider**

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 52)

**Required:** True

### CmafPackage

Parameters for a packaging configuration that uses Common Media Application Format (CMAF) packaging.

#### **includeEncoderConfigurationInSegments**

When `includeEncoderConfigurationInSegments` is set to `true`, MediaPackage places your encoder's Sequence Parameter Set (SPS), Picture Parameter Set (PPS), and Video Parameter Set (VPS) metadata in every video segment instead of in the init fragment. This lets you use different SPS/PPS/VPS settings for your assets during content playback.

**Type:** boolean

**Required:** False

#### **segmentDurationSeconds**

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

**Type:** integer

**Required:** False

#### **encryption**

Parameters for encrypting content.

**Type:** [CmafEncryption](#) (p. 43)

**Required:** False

#### **hlsManifests**

A list of HLS manifest configurations available from this endpoint.

**Type:** Array of type [HlsManifest](#) (p. 48)  
**Required:** True

## DashEncryption

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

### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 52)  
**Required:** True

## DashManifest

Parameters for a DASH manifest.

### minBufferTimeSeconds

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

**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 packaging configuration.

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

### profile

The DASH profile type 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](#).

**Type:** string  
**Required:** False  
**Values:** NONE | HBBTV\_1\_5

### manifestLayout

Determines the position of some tags in the Media Presentation Description (MPD).

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

### **streamSelection**

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

**Type:** [StreamSelection \(p. 53\)](#)  
**Required:** False

### **scteMarkersSource**

The source of scte markers used.

Value description:

- **SEGMENTS** - The scte markers are sourced from the segments of the ingested content.
- **MANIFEST** - the scte markers are sourced from the manifest of the ingested content. The MANIFEST value is compatible with source HLS playlists using the SCTE-35 Enhanced syntax (#EXT-OATCLS-SCTE35 tags). SCTE-35 Elemental and SCTE-35 Daterange syntaxes are not supported with this option.

**Type:** string  
**Required:** False  
**Values:** SEGMENTS | MANIFEST

## **DashPackage**

Parameters for a packaging configuration that uses Dynamic Adaptive Streaming over HTTP (DASH) packaging.

### **includeEncoderConfigurationInSegments**

When `includeEncoderConfigurationInSegments` is set to `true`, MediaPackage places your encoder's Sequence Parameter Set (SPS), Picture Parameter Set (PPS), and Video Parameter Set (VPS) metadata in every video segment instead of in the init fragment. This lets you use different SPS/PPS/VPS settings for your assets during content playback.

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

### **segmentDurationSeconds**

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

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

### **encryption**

Parameters for encrypting content.



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

**Required:** False

### **segmentTemplateFormat**

Determines the type of SegmentTemplate included in the Media Presentation Description (MPD).

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.
- **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.
- **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.

**Type:** string

**Required:** False

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

### **includeFrameOnlyStream**

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

**Type:** boolean

**Required:** False

### **periodTriggers**

A list of triggers that controls when the outgoing Dynamic Adaptive Streaming over HTTP (DASH) Media Presentation Description (MPD) will be partitioned into multiple periods.

Value description:

- **NONE** - The entire duration of the output manifest is included in a single period.
- **ADS** - Multiple periods are added to the output manifest based on SCTE-35 ad markers in the source video stream.

**Type:** Array of type string

**Required:** False

**Values:** ADS

### **dashManifests**

A list of DASH manifest configurations available from this endpoint.

**Type:** Array of type [DashManifest \(p. 44\)](#)

**Required:** True

## 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 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.

### constantInitializationVector

A 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 constant initialization vector (IV), MediaPackage periodically rotates the IV.

**Type:** string

**Required:** False

### encryptionMethod

HLS encryption type.

**Type:** string

**Required:** False

**Values:** AES\_128 | SAMPLE\_AES

### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 52)

**Required:** True

## HlsManifest

Parameters for an HLS manifest.

### 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

### adMarkers

This setting controls ad markers in the packaged content.

Value description:

- NONE - Omits SCTE-35 ad markers from the output.
- SCTE35\_ENHANCED - Generates ad markers and blackout tags in the output, based on SCTE-35 messages in the source content.
- PASSTHROUGH - Copies SCTE-35 ad markers from the source content to the output.

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

### manifestName

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

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

### programDateTimeIntervalSeconds

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

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

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

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

### streamSelection

Video bitrate limitations for outputs from this packaging configuration.

**Type:** [StreamSelection \(p. 53\)](#)  
**Required:** False

### includeIframeOnlyStream

Applies to stream sets with a single video track only. When enabled, the output includes an additional I-frame only trick-play stream, along with the other tracks.

**Type:** boolean

**Required:** False

## HlsPackage

Parameters for a packaging configuration that uses HTTP Live Streaming (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 will be rounded to the nearest multiple of the source fragment duration.

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

### encryption

Parameters for encrypting content.

**Type:** [HlsEncryption \(p. 48\)](#)  
**Required:** False

### hlsManifests

A list of HLS manifest configurations available from this endpoint.

**Type:** Array of type [HlsManifest \(p. 48\)](#)  
**Required:** True

### includeDvbSubtitles

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

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

## MssEncryption

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

### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider \(p. 52\)](#)  
**Required:** True

## MssManifest

Parameters for a Microsoft Smooth manifest.

### manifestName

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

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

### streamSelection

Video bitrate limitations for outputs from this packaging configuration.

**Type:** [StreamSelection \(p. 53\)](#)  
**Required:** False

## MssPackage

Parameters for a packaging configuration that uses Microsoft Smooth Streaming (MSS) packaging.

### segmentDurationSeconds

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

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

### encryption

Parameters for encrypting content.

**Type:** [MssEncryption \(p. 50\)](#)  
**Required:** False

### mssManifests

A list of Microsoft Smooth manifest configurations available from this endpoint.

**Type:** Array of type [MssManifest \(p. 51\)](#)  
**Required:** True

## PackagingConfiguration

PackagingConfiguration.

### packagingGroupId

The ID of the packaging group associated with this packaging configuration.

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

### **dashPackage**

Parameters for DASH-ISO packaging.

**Type:** [DashPackage \(p. 45\)](#)

**Required:** False

### **id**

Unique identifier that you assign to the packaging configuration.

**Type:** string

**Required:** False

### **arn**

The Amazon Resource Name (ARN) for the packaging configuration. You can get this from the response to any request to the packaging configuration.

**Type:** string

**Required:** False

### **cmfPackage**

Parameters for CMAF packaging.

**Type:** [CmfPackage \(p. 43\)](#)

**Required:** False

### **hlsPackage**

Parameters for Apple HLS packaging.

**Type:** [HlsPackage \(p. 50\)](#)

**Required:** False

### **mssPackage**

Parameters for Microsoft Smooth Streaming packaging.

**Type:** [MssPackage \(p. 51\)](#)

**Required:** False

### **tags**

The tags to assign to the packaging configuration.

**Type:** [Tags \(p. 54\)](#)

**Required:** False

## **SpekeKeyProvider**

A configuration for accessing an external Secure Packager and Encoder Key Exchange (SPEKE) service that will provide encryption keys.

### **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](#) (p. 47)

**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.

#### key-value pairs

**Type:** string

## Packaging\_groups

### URI

/prod/packaging\_groups

### HTTP methods

#### GET

**Operation ID:** ListPackagingGroups

Lists packaging groups that match a set of filters that you define.

#### Query parameters

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

#### Responses

Status code	Response model	Description
200	<a href="#">PackagingGroupList</a> (p. 57)	200 OK response The list of tags is returned successfully.
403	None	403 Forbidden response

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

## POST

### Operation ID: CreatePackagingGroup

Creates a packaging group.

The packaging group holds one or more packaging configurations. When you create an asset, you specify the packaging group associated with the asset. The asset has playback endpoints for each packaging configuration within the group.

### Responses

Status code	Response model	Description
200	<a href="#">PackagingGroup (p. 57)</a>	200 OK response

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

## OPTIONS

Enable cross-origin resource sharing (CORS) by returning correct headers.

### Responses

Status code	Response model	Description
200	None	200 OK response

Status code	Response model	Description
		The list of tags is returned successfully.

## Schemas

### Request bodies

#### POST schema

```
{
  "authorization": {
    "cdnIdentifierSecret": "string",
    "secretsRoleArn": "string"
  },
  "egressAccessLogs": {
    "logGroupName": "string"
  },
  "id": "string",
  "tags": {
  }
}
```

### Response bodies

#### PackagingGroupList schema

```
{
  "nextToken": "string",
  "packagingGroups": [
    {
      "authorization": {
        "cdnIdentifierSecret": "string",
        "secretsRoleArn": "string"
      },
      "domainName": "string",
      "egressAccessLogs": {
        "logGroupName": "string"
      },
      "id": "string",
      "arn": "string",
      "approximateAssetCount": integer,
      "tags": {
      }
    }
  ]
}
```

#### PackagingGroup schema

```
{
  "authorization": {
    "cdnIdentifierSecret": "string",
    "secretsRoleArn": "string"
  },
  "domainName": "string",
}
```

```
"egressAccessLogs": {  
  "logGroupName": "string"  
},  
"id": "string",  
"arn": "string",  
"approximateAssetCount": integer,  
"tags": {  
}
```

## Properties

### Authorization

Parameters for enabling CDN authorization.

#### **cdnIdentifierSecret**

The Amazon Resource Name (ARN) for the secret in AWS Secrets Manager that is used for CDN authorization.

**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

### EgressAccessLogs

Configures egress access logs.

#### **logGroupName**

Sets a custom Amazon 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

### PackagingGroup

Parameters for a packaging group.

#### **authorization**

Parameters for CDN authorization.

**Type:** [Authorization \(p. 58\)](#)

**Required:** False

### **domainName**

The fully qualified domain name for Assets in the PackagingGroup.

**Type:** string

**Required:** False

### **egressAccessLogs**

The configuration parameters for egress access logging.

**Type:** [EgressAccessLogs \(p. 58\)](#)

**Required:** False

### **id**

Unique identifier that you assign to the packaging group.

**Type:** string

**Required:** False

### **arn**

The Amazon Resource Name (ARN) for the packaging group. You can get this from the response to any request to the packaging group.

**Type:** string

**Required:** False

### **approximateAssetCount**

The approximate number of assets in a packaging group. The number is approximate because the count is not updated immediately after adding or removing assets.

**Type:** integer

**Required:** False

### **tags**

The tags to assign to the packaging group.

**Type:** [Tags \(p. 60\)](#)

**Required:** False

## **PackagingGroupCreateParameters**

Parameters for creating a packaging group.

### **authorization**

Parameters for CDN authorization.

**Type:** [Authorization \(p. 58\)](#)

**Required:** False

### **egressAccessLogs**

The configuration parameters for egress access logging.

**Type:** [EgressAccessLogs \(p. 58\)](#)

**Required:** False

### **id**

Unique identifier that you assign to the packaging group.

**Type:** string

**Required:** True

### **tags**

The tags to assign to the packaging group.

**Type:** [Tags \(p. 60\)](#)

**Required:** False

## **PackagingGroupList**

A collection of PackagingGroup records.

### **nextToken**

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

**Type:** string

**Required:** False

### **packagingGroups**

A list of PackagingGroup records that are configured on this account in this AWS Region.

**Type:** Array of type [PackagingGroup \(p. 58\)](#)

**Required:** False

## **Tags**

A collection of tags associated with a resource.

### **key-value pairs**

**Type:** string

# **Packaging\_groups id**

## **URI**

/prod/packaging\_groups/*id*

## HTTP methods

### GET

**Operation ID:** DescribePackagingGroup

Provides details about a packaging group.

#### Path parameters

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

#### Responses

Status code	Response model	Description
200	<a href="#">PackagingGroup (p. 65)</a>	200 OK response  The list of tags is returned successfully.
403	None	403 Forbidden response  AWS Elemental MediaPackage cannot authorize the request, possibly due to insufficient authentication credentials.
404	None	404 Not Found response  AWS Elemental MediaPackage did not find a representation of the target resource.
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.



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:** UpdatePackagingGroup

Updates a specific packaging group.

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're working on.

### Responses

Status code	Response model	Description
200	<a href="#">PackagingGroup (p. 65)</a>	200 OK response  The packaging group 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
500	None	<p>Too many requests have been sent in a given amount of time.</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:** DeletePackagingGroup

Permanently deletes a packaging group.

### Path parameters

Name	Type	Required	Description
<i>id</i>	String	True	Identifier for the object that you're 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>

Status code	Response model	Description
422	None	422 Unprocessable Entity response  AWS Elemental MediaPackage could not process the instructions in the body of the request.
429	None	429 Too Many Requests response  Too many requests have been sent in a given amount of time.
500	None	500 Internal Server Error response  An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.
503	None	Service unavailable response  AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.

## OPTIONS

Enable cross-origin resource sharing (CORS) by returning correct headers.

### Path parameters

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

### Responses

Status code	Response model	Description
200	None	200 OK response  The list of tags is returned successfully.

## Schemas

### Request bodies

#### PUT schema

```
{
  "authorization": {
    "cdnIdentifierSecret": "string",
    "secretsRoleArn": "string"
  }
}
```

### Response bodies

#### PackagingGroup schema

```
{
  "authorization": {
    "cdnIdentifierSecret": "string",
    "secretsRoleArn": "string"
  },
  "domainName": "string",
  "egressAccessLogs": {
    "logGroupName": "string"
  },
  "id": "string",
  "arn": "string",
  "approximateAssetCount": integer,
  "tags": {
  }
}
```

## Properties

### Authorization

Parameters for enabling CDN authorization.

#### **cdnIdentifierSecret**

The Amazon Resource Name (ARN) for the secret in AWS Secrets Manager that is used for CDN authorization.

**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

## EgressAccessLogs

Configures egress access logs.

### logGroupName

Sets a custom Amazon 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

## PackagingGroup

Parameters for a packaging group.

### authorization

Parameters for CDN authorization.

**Type:** [Authorization](#) (p. 65)  
**Required:** False

### domainName

The fully qualified domain name for Assets in the PackagingGroup.

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

### egressAccessLogs

The configuration parameters for egress access logging.

**Type:** [EgressAccessLogs](#) (p. 66)  
**Required:** False

### id

Unique identifier that you assign to the packaging group.

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

### arn

The Amazon Resource Name (ARN) for the packaging group. You can get this from the response to any request to the packaging group.

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

### approximateAssetCount

The approximate number of assets in a packaging group. The number is approximate because the count is not updated immediately after adding or removing assets.

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

### tags

The tags to assign to the packaging group.

**Type:** [Tags \(p. 67\)](#)  
**Required:** False

## PackagingGroupUpdateParameters

Parameters used to update a MediaPackage packaging group.

### authorization

Parameters for CDN authorization.

**Type:** [Authorization \(p. 65\)](#)  
**Required:** False

## Tags

A collection of tags associated with a resource.

### key-value pairs

**Type:** string

# Packaging\_groups id Configure\_logs

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

## URI

/prod/packaging\_groups/*id*/configure\_logs

## HTTP methods

### PUT

**Operation ID:** ConfigureLogs

Configures access logs for a packaging group.

### Path parameters

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

## Responses

Status code	Response model	Description
200	<a href="#">PackagingGroup (p. 69)</a>	<p>200 OK response</p> <p>The packaging group 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>Too many requests have been sent in a given amount of time.</p>
500	None	<p>500 Internal Server Error response</p> <p>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</p>
503	None	<p>Service unavailable response</p> <p>AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.</p>

## OPTIONS

Enable CORS by returning correct headers.

### Path parameters

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

### Responses

Status code	Response model	Description
200	None	200 OK response  The list of tags is returned successfully.

## Schemas

### Request bodies

#### PUT schema

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

### Response bodies

#### PackagingGroup schema

```
{
  "authorization": {
    "cdnIdentifierSecret": "string",
    "secretsRoleArn": "string"
  },
  "domainName": "string",
  "egressAccessLogs": {
    "logGroupName": "string"
  },
  "id": "string",
  "arn": "string",
  "approximateAssetCount": integer,
  "tags": {
  }
}
```

## Properties

### Authorization

Parameters for enabling CDN authorization.



### **cdnIdentifierSecret**

The Amazon Resource Name (ARN) for the secret in AWS Secrets Manager that is used for CDN authorization.

**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

## ConfigureLogsParameters

The configuration parameters for access logging.

### **egressAccessLogs**

Configures egress access logs.

**Type:** [EgressAccessLogs](#) (p. 70)  
**Required:** False

## EgressAccessLogs

Configures egress access logs.

### **logGroupName**

Sets a custom Amazon 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

## PackagingGroup

Parameters for a packaging group.

### **authorization**

Parameters for CDN authorization.

**Type:** [Authorization](#) (p. 69)  
**Required:** False

### **domainName**

The fully qualified domain name for Assets in the PackagingGroup.

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

### **egressAccessLogs**

The configuration parameters for egress access logging.

**Type:** [EgressAccessLogs \(p. 70\)](#)  
**Required:** False

### **id**

Unique identifier that you assign to the packaging group.

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

### **arn**

The Amazon Resource Name (ARN) for the packaging group. You can get this from the response to any request to the packaging group.

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

### **approximateAssetCount**

The approximate number of assets in a packaging group. The number is approximate because the count is not updated immediately after adding or removing assets.

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

### **tags**

The tags to assign to the packaging group.

**Type:** [Tags \(p. 71\)](#)  
**Required:** False

## **Tags**

A collection of tags associated with a resource.

### **key-value pairs**

**Type:** string

## **Tags resource-arn**

Manage tags for AWS Elemental MediaPackage packaging group. Tags are key-value pairs that you can associate with Amazon resources. MediaPackage offers tagging support for assets, packaging

configurations, and packaging groups resources. For information about tagging, see [Tagging Resources in AWS Elemental MediaPackage](#).

## URI

/prod/tags/*resource-arn*

## HTTP methods

### GET

**Operation ID:** ListTagsForResource

Returns a list of the tags assigned to the specified resource.

#### Path parameters

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

#### Responses

Status code	Response model	Description
200	<a href="#">tagsModel (p. 73)</a>	200 response

### POST

**Operation ID:** TagResource

Adds tags to the specified 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 resource. You can get this from the response to any request to the resource.

#### Responses

Status code	Response model	Description
204	None	204 response

## DELETE

**Operation ID:** UntagResource

Removes tags from the specified 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 resource. 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 resource.

### Responses

Status code	Response model	Description
204	None	204 response

## 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

# Document History for API Reference

The following table describes the documentation for this release of AWS Elemental MediaPackage (MediaPackage).

- **API version:** latest

Change	Description	Date
Add includeIframeOnlyStream	Added support for I-frame only trick-play for DASH VOD workflows.	November 7, 2022
SPEKE Version 2.0 is now available for VOD	MediaPackage now supports SPEKE Version 2.0 with CMAF and DASH VOD workflows.	October 10, 2022
Add constant initialization vector (IV)	Added constant IV to a packaging configuration for HLS encryption.	August 21, 2019
New MediaPackage VOD release	Initial documentation for MediaPackage VOD.	May 17, 2019

# AWS glossary

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