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# AWS Elemental MediaPackage

## VOD API Reference



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

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# 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. 33)
- [Packaging\\_groups](#) (p. 46)
- [Packaging\\_groups id](#) (p. 52)
- [Tags resource-arn](#) (p. 58)

## 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

#### Example POST

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

### Response Bodies

#### Example AssetList

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

#### Example Asset

```
{
  "createdAt": "string",
  "packagingGroupId": "string",
}
```



```
"sourceArn": "string",
"resourceId": "string",
"sourceRoleArn": "string",
"id": "string",
"arn": "string",
"egressEndpoints": [
  {
    "packagingConfigurationId": "string",
    "url": "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

## 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.

Status Code	Response Model	Description
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	202 Accepted response

Status Code	Response Model	Description
403	None	<p>AWS Elemental MediaPackage accepted the request but has not processed it yet.</p> <p>403 Forbidden response</p>
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>
500	None	<p>Too many requests have been sent in a given amount of time.</p> <p>500 Internal Server Error response</p>
503	None	<p>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</p> <p>Service unavailable response</p> <p>AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.</p>

## 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

### Response Bodies

#### Example Asset

```
{
  "createdAt": "string",
  "packagingGroupId": "string",
  "sourceArn": "string",
  "resourceId": "string",
  "sourceRoleArn": "string",
  "id": "string",
  "arn": "string",
  "egressEndpoints": [
    {
      "packagingConfigurationId": "string",
      "url": "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 \(p. 14\)](#)  
**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

### 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 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>

## 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)	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

#### Example POST

```
{
  "packagingGroupId": "string",
  "dashPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    },
    "segmentTemplateFormat": enum,
    "periodTriggers": [
      enum
    ],
    "dashManifests": [
      {
        "minBufferTimeSeconds": integer,
        "manifestName": "string",
        "profile": enum,
        "manifestLayout": enum,
        "streamSelection": {
          "streamOrder": enum,
          "maxVideoBitsPerSecond": integer,
          "minVideoBitsPerSecond": integer
        }
      }
    ]
  },
  "id": "string",
  "cmfPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "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": {
            "systemIds": [
                "string"
            ],
            "roleArn": "string",
            "url": "string"
        }
    },
},
"hlsManifests": [
    {
        "repeatExtXKey": boolean,
        "adMarkers": enum,
        "manifestName": "string",
        "programDateTimeIntervalSeconds": integer,
        "streamSelection": {
            "streamOrder": enum,
            "maxVideoBitsPerSecond": integer,
            "minVideoBitsPerSecond": integer
        },
        "includeIframeOnlyStream": boolean
    }
]
},
},
"mssPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
        "spekeKeyProvider": {
            "systemIds": [
                "string"
            ],
            "roleArn": "string",
            "url": "string"
        }
    },
},
"mssManifests": [
    {
        "manifestName": "string",
        "streamSelection": {
            "streamOrder": enum,
            "maxVideoBitsPerSecond": integer,
            "minVideoBitsPerSecond": integer
        }
    }
]
},
"tags": {
}

```

```
}

```

## Response Bodies

### Example PackagingConfigurationList

```
{
  "nextToken": "string",
  "packagingConfigurations": [
    {
      "packagingGroupId": "string",
      "dashPackage": {
        "segmentDurationSeconds": integer,
        "encryption": {
          "spekeKeyProvider": {
            "systemIds": [
              "string"
            ],
            "roleArn": "string",
            "url": "string"
          }
        },
        "segmentTemplateFormat": enum,
        "periodTriggers": [
          enum
        ],
        "dashManifests": [
          {
            "minBufferTimeSeconds": integer,
            "manifestName": "string",
            "profile": enum,
            "manifestLayout": enum,
            "streamSelection": {
              "streamOrder": enum,
              "maxVideoBitsPerSecond": integer,
              "minVideoBitsPerSecond": integer
            }
          }
        ]
      },
      "id": "string",
      "arn": "string",
      "cmafPackage": {
        "segmentDurationSeconds": integer,
        "encryption": {
          "spekeKeyProvider": {
            "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": {
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
},
"hlsManifests": [
  {
    "repeatExtXKey": boolean,
    "adMarkers": enum,
    "manifestName": "string",
    "programDateTimeIntervalSeconds": integer,
    "streamSelection": {
      "streamOrder": enum,
      "maxVideoBitsPerSecond": integer,
      "minVideoBitsPerSecond": integer
    },
    "includeIframeOnlyStream": boolean
  }
]
},
},
"mssPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
},
"mssManifests": [
  {
    "manifestName": "string",
    "streamSelection": {
      "streamOrder": enum,
      "maxVideoBitsPerSecond": integer,
      "minVideoBitsPerSecond": integer
    }
  }
]
},
},
"tags": {
}
}
]
}

```

### Example PackagingConfiguration

```
{
```



```

"packagingGroupId": "string",
"dashPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {
      "systemIds": [
        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "segmentTemplateFormat": enum,
  "periodTriggers": [
    enum
  ],
  "dashManifests": [
    {
      "minBufferTimeSeconds": integer,
      "manifestName": "string",
      "profile": enum,
      "manifestLayout": enum,
      "streamSelection": {
        "streamOrder": enum,
        "maxVideoBitsPerSecond": integer,
        "minVideoBitsPerSecond": integer
      }
    }
  ]
},
"id": "string",
"arn": "string",
"cmafPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {
      "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": {
      "systemIds": [

```

```

        "string"
      ],
      "roleArn": "string",
      "url": "string"
    }
  },
  "hlsManifests": [
    {
      "repeatExtXKey": boolean,
      "adMarkers": enum,
      "manifestName": "string",
      "programDateTimeIntervalSeconds": integer,
      "streamSelection": {
        "streamOrder": enum,
        "maxVideoBitsPerSecond": integer,
        "minVideoBitsPerSecond": integer
      },
      "includeIframeOnlyStream": boolean
    }
  ]
},
"mssPackage": {
  "segmentDurationSeconds": integer,
  "encryption": {
    "spekeKeyProvider": {
      "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.

#### spekeKeyProvider

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 32)

**Required:** True

## CmafPackage

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

### 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. 23)  
**Required:** False

### hlsManifests

A list of HLS manifest configurations available from this endpoint.

**Type:** Array of type [HlsManifest](#) (p. 26)  
**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. 32)  
**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. When set to **HBBTV\_1\_5**, the content is compliant with HbbTV 1.5.

**Type:** string

**Required:** False

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

### manifestLayout

Determines the position of some tags in the Media Presentation Description (MPD). When set to FULL, elements like SegmentTemplate and ContentProtection are included in each Representation. When set to 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 \(p. 32\)](#)

**Required:** False

## DashPackage

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

### 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 \(p. 24\)](#)

**Required:** False

### segmentTemplateFormat

Determines the type of SegmentTemplate included in the Media Presentation Description (MPD). When set to NUMBER\_WITH\_TIMELINE, a full timeline is presented in each SegmentTemplate, with \$Number\$ media URLs. When set to TIME\_WITH\_TIMELINE, a full timeline is presented in each SegmentTemplate, with \$Time\$ media URLs. When set to NUMBER\_WITH\_DURATION, only a duration is included in each SegmentTemplate, with \$Number\$ media URLs.

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

### 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. If empty, the content will not be partitioned into more than one period. If the list contains "ADS", new periods will be created where the Asset contains SCTE-35 ad markers.

**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 \(p. 24\)](#)  
**Required:** True

## 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 \(p. 32\)](#)  
**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. **NONE** omits SCTE-35 ad markers from the output. **PASSTHROUGH** copies SCTE-35 ad markers from the source content to the output. **SCTE35\_ENHANCED** generates ad markers and blackout tags in the output, based on SCTE-35 messages in the source content.

**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 \(p. 32\)](#)  
**Required:** False

### includeIframeOnlyStream

Applies to stream sets with a single video track only. When enabled, the output includes an additional I-frame only 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 \(p. 26\)](#)  
**Required:** False

### hlsManifests

A list of HLS manifest configurations available from this endpoint.

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

## 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 \(p. 32\)](#)  
**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. 32)  
**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. 28)  
**Required:** False

### **mssManifests**

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

**Type:** Array of type [MssManifest](#) (p. 28)  
**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. 25)



**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 \(p. 24\)](#)

**Required:** False

#### **hlsPackage**

Parameters for Apple HLS packaging.

**Type:** [HlsPackage \(p. 28\)](#)

**Required:** False

#### **mssPackage**

Parameters for Microsoft Smooth Streaming packaging.

**Type:** [MssPackage \(p. 29\)](#)

**Required:** False

#### **tags**

The tags to assign to the packaging configuration.

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

**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 \(p. 25\)](#)

**Required:** False

### **id**

Unique identifier that you assign to the packaging configuration.

**Type:** string

**Required:** True

### **cmfPackage**

Parameters for CMAF packaging.

**Type:** [CmafPackage \(p. 24\)](#)

**Required:** False

### **hlsPackage**

Parameters for Apple HLS packaging.

**Type:** [HlsPackage \(p. 28\)](#)

**Required:** False

### **mssPackage**

Parameters for Microsoft Smooth Streaming packaging.

**Type:** [MssPackage \(p. 29\)](#)

**Required:** False

### **tags**

The tags to assign to the packaging configuration.

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

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

**Required:** False

## SpekeKeyProvider

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

### 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)	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.

Status Code	Response Model	Description
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: 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

Status Code	Response Model	Description
403	None	<p>AWS Elemental MediaPackage accepted the request but has not processed it yet.</p> <p>403 Forbidden response</p>
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>
500	None	<p>Too many requests have been sent in a given amount of time.</p> <p>500 Internal Server Error response</p>
503	None	<p>An unexpected condition prevented AWS Elemental MediaPackage from fulfilling the request.</p> <p>Service unavailable response</p> <p>AWS Elemental MediaPackage can't currently complete the request, usually because of a temporary overload or maintenance.</p>

## 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

### Response Bodies

#### Example PackagingConfiguration

```
{
  "packagingGroupId": "string",
  "dashPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "systemIds": [
          "string"
        ],
        "roleArn": "string",
        "url": "string"
      }
    },
    "segmentTemplateFormat": enum,
    "periodTriggers": [
      enum
    ],
    "dashManifests": [
      {
        "minBufferTimeSeconds": integer,
        "manifestName": "string",
        "profile": enum,
        "manifestLayout": enum,
        "streamSelection": {
          "streamOrder": enum,
          "maxVideoBitsPerSecond": integer,
          "minVideoBitsPerSecond": integer
        }
      }
    ]
  },
  "id": "string",
  "arn": "string",
  "cmafPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
      "spekeKeyProvider": {
        "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": {
            "systemIds": [
                "string"
            ],
            "roleArn": "string",
            "url": "string"
        }
    },
    "hlsManifests": [
        {
            "repeatExtXKey": boolean,
            "adMarkers": enum,
            "manifestName": "string",
            "programDateTimeIntervalSeconds": integer,
            "streamSelection": {
                "streamOrder": enum,
                "maxVideoBitsPerSecond": integer,
                "minVideoBitsPerSecond": integer
            },
            "includeIframeOnlyStream": boolean
        }
    ]
},
"mssPackage": {
    "segmentDurationSeconds": integer,
    "encryption": {
        "spekeKeyProvider": {
            "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.

#### **spekeKeyProvider**

Parameters for the SPEKE key provider.

**Type:** [SpekeKeyProvider](#) (p. 44)

**Required:** True

### CmafPackage

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

#### **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. 38)

**Required:** False

#### **hlsManifests**

A list of HLS manifest configurations available from this endpoint.

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

**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. 44)

**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. When set to **HBBTV\_1\_5**, the content is compliant with HbbTV 1.5.

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

### **manifestLayout**

Determines the position of some tags in the Media Presentation Description (MPD). When set to FULL, elements like SegmentTemplate and ContentProtection are included in each Representation. When set to 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 \(p. 45\)](#)  
**Required:** False

## **DashPackage**

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

### **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 \(p. 38\)](#)

**Required:** False

### **segmentTemplateFormat**

Determines the type of SegmentTemplate included in the Media Presentation Description (MPD). When set to NUMBER\_WITH\_TIMELINE, a full timeline is presented in each SegmentTemplate, with \$Number\$ media URLs. When set to TIME\_WITH\_TIMELINE, a full timeline is presented in each SegmentTemplate, with \$Time\$ media URLs. When set to NUMBER\_WITH\_DURATION, only a duration is included in each SegmentTemplate, with \$Number\$ media URLs.

**Type:** string

**Required:** False

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

### **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. If empty, the content will not be partitioned into more than one period. If the list contains "ADS", new periods will be created where the Asset contains SCTE-35 ad markers.

**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 \(p. 38\)](#)

**Required:** True

## **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. 44)

**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. **NONE** omits SCTE-35 ad markers from the output. **PASSTHROUGH** copies SCTE-35 ad markers from the source content to the output. **SCTE35\_ENHANCED** generates ad markers and blackout tags in the output, based on SCTE-35 messages in the source content.

**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. 45)  
**Required:** False

### **includeIframeOnlyStream**

Applies to stream sets with a single video track only. When enabled, the output includes an additional I-frame only 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. 40)  
**Required:** False

### **hlsManifests**

A list of HLS manifest configurations available from this endpoint.

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

## **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. 44)  
**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. 45)  
**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. 42)  
**Required:** False

### mssManifests

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

**Type:** Array of type [MssManifest](#) (p. 43)  
**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 \(p. 39\)](#)

**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

### **cmafPackage**

Parameters for CMAF packaging.

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

**Required:** False

### **hlsPackage**

Parameters for Apple HLS packaging.

**Type:** [HlsPackage \(p. 42\)](#)

**Required:** False

### **mssPackage**

Parameters for Microsoft Smooth Streaming packaging.

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

**Required:** False

### **tags**

The tags to assign to the packaging configuration.

**Type:** [Tags \(p. 46\)](#)

**Required:** False

## **SpekeKeyProvider**

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

### **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 (p. 49)</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.

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.

## 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. 49)</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.

Status Code	Response Model	Description
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

#### Example POST

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

### Response Bodies

#### Example PackagingGroupList

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

#### Example PackagingGroup

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

## PackagingGroup

Parameters for a packaging group.

### **authorization**

Parameters for CDN authorization.

**Type:** [Authorization \(p. 49\)](#)  
**Required:** False

### **domainName**

The fully qualified domain name for Assets in the PackagingGroup.

**Type:** string  
**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

### **tags**

The tags to assign to the packaging group.

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

**Required:** False

## PackagingGroupCreateParameters

Parameters for creating a packaging group.

### authorization

Parameters for CDN authorization.

**Type:** [Authorization \(p. 49\)](#)

**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 \(p. 51\)](#)

**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 \(p. 50\)](#)

**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. 56)</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.

Status Code	Response Model	Description
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.

## 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
<code>id</code>	String	True	Identifier for the object that you're working on.

### Responses

Status Code	Response Model	Description
200	<a href="#">PackagingGroup (p. 56)</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



Status Code	Response Model	Description
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>

## 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,</p>

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

## 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

#### Example PUT

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

### Response Bodies

#### Example PackagingGroup

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

### PackagingGroup

Parameters for a packaging group.

### **authorization**

Parameters for CDN authorization.

**Type:** [Authorization \(p. 56\)](#)

**Required:** False

### **domainName**

The fully qualified domain name for Assets in the PackagingGroup.

**Type:** string

**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

### **tags**

The tags to assign to the packaging group.

**Type:** [Tags \(p. 57\)](#)

**Required:** False

## **PackagingGroupUpdateParameters**

Parameters used to update a MediaPackage packaging group.

### **authorization**

Parameters for CDN authorization.

**Type:** [Authorization \(p. 56\)](#)

**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. 60)</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

#### Example POST

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

## Response Bodies

### Example tagsModel

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

## Properties

### tagsModel

The key:value pairs used in a tag.

#### **tags**

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

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

**Type:** object  
**Required:** True

# Document History for API Reference

The following table describes the documentation for this release of ServiceName.

- **API version: latest**
- **Latest documentation update:** August 21, 2019

Change	Description	Date
Add constant initialization vector (IV)	Added constant IV to a packaging configuration for HLS encryption.	August 21, 2019
New AWS Elemental MediaPackage VOD release	Initial documentation for AWS Elemental MediaPackage VOD.	May 17, 2019



# AWS glossary

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