
AWS Elemental MediaConnect

API Reference



AWS Elemental MediaConnect: API Reference

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What Is AWS Elemental MediaConnect?

AWS Elemental MediaConnect is a service that lets you ingest live video content into the cloud and distribute it to destinations all over the world, both inside and outside the AWS cloud.

This is the API Reference for AWS Elemental MediaConnect. This guide is for developers who need detailed information about the AWS Elemental MediaConnect API actions, data types, and errors. For descriptions of AWS Elemental MediaStore features and step-by-step instructions on how to use them, see the [AWS Elemental MediaConnect User Guide](#).

Alternatively, you can use one of the AWS SDKs to access an API that's tailored to the programming language or platform that you're using. For more information, see [AWS SDKs](#).

Resources

The AWS Elemental MediaConnect REST API includes the following resources.

Topics

- [ListTagsForResource, TagResource, UntagResource](#) (p. 2)
- [ListEntitlements](#) (p. 7)
- [ListFlows, CreateFlow](#) (p. 10)
- [StartFlow](#) (p. 30)
- [StopFlow](#) (p. 32)
- [DescribeFlow, DeleteFlow](#) (p. 34)
- [GrantFlowEntitlements](#) (p. 47)
- [UpdateFlowEntitlement, RevokeFlowEntitlement](#) (p. 53)
- [AddFlowOutputs](#) (p. 60)
- [UpdateFlowOutput, RemoveFlowOutput](#) (p. 68)
- [UpdateFlowSource](#) (p. 78)

ListTagsForResource, TagResource, UntagResource

URI

/tags/*resourceArn*

HTTP Methods

GET

Operation ID: ListTagsForResource

Lists all tags associated with the resource.

Path Parameters

Name	Type	Required	Description
<i>resourceArn</i>	String	True	The Amazon Resource Name (ARN) of the resource that you want to view tags for.

Responses

Status Code	Response Model	Description
200	ListTagsForResourceResponse	AWS Elemental MediaConnect listed the tags associated with the resource.

Status Code	Response Model	Description
400	ResponseError (p. 6)	The request that you submitted is not valid.
404	ResponseError (p. 6)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
500	ResponseError (p. 6)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.

See Also

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

POST

Operation ID: TagResource

Associates the specified tags to a resource. If the request does not mention an existing tag associated with the resource, that tag is not changed.

Path Parameters

Name	Type	Required	Description
<i>resourceArn</i>	String	True	The Amazon Resource Name (ARN) of the resource that you want to view tags for.

Responses

Status Code	Response Model	Description
204	None	If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.
400	ResponseError (p. 6)	The request that you submitted is not valid.

Status Code	Response Model	Description
404	ResponseError (p. 6)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
500	ResponseError (p. 6)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.

See Also

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

DELETE

Operation ID: UntagResource

Deletes the specified tags from a resource.

Path Parameters

Name	Type	Required	Description
<i>resourceArn</i>	String	True	The Amazon Resource Name (ARN) of the resource that you want to view tags for.

Query Parameters

Name	Type	Required	Description
tagKeys	String	True	The keys of the tags to be removed.

Responses

Status Code	Response Model	Description
204	None	If the action is successful, the service sends back an HTTP 204

Status Code	Response Model	Description
400	ResponseError (p. 6)	response with an empty HTTP body. The request that you submitted is not valid.
404	ResponseError (p. 6)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
500	ResponseError (p. 6)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.

See Also

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

Schemas

Request Bodies

Example POST

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

Response Bodies

Example ListTagsForResourceResponse

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

Example ResponseError

```
{  
  "message": "string"  
}
```

Properties

ListTagsForResourceResponse

tags

A map from tag keys to values. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

Type: object

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string

Required: True

See Also

- [AWS SDK for Ruby V2](#)

TagResourceRequest

tags

A map from tag keys to values. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

Type: object

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ListEntitlements

URI

/v1/entitlements

HTTP Methods

GET

Operation ID: ListEntitlements

Displays a list of all entitlements that have been granted to the account. This request returns 20 results per page.

Query Parameters

Name	Type	Required	Description
nextToken	String	False	The token that identifies which batch of results that you want to see. For example, you submit a ListEntitlements request with MaxResults set at 5. The service returns the first batch of results (up to 5) and a NextToken value. To see the next batch of results, you can submit the ListEntitlements request a second time and specify the NextToken value.
maxResults	String	False	The maximum number of results to return per API request. For example, you submit a ListEntitlements request with MaxResults set at 5. Although 20 items match your request, the

Name	Type	Required	Description
			<p>service returns no more than the first 5 items. (The service also returns a NextToken value that you can use to fetch the next batch of results.) The service might return fewer results than the MaxResults value. If MaxResults is not included in the request, the service defaults to pagination with a maximum of 20 results per page.</p>

Responses

Status Code	Response Model	Description
200	ListEntitlementsResponse (p. 9)	AWS Elemental MediaConnect returned the list of entitlements successfully.
400	ResponseError (p. 9)	The request that you submitted is not valid.
429	ResponseError (p. 9)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 9)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 9)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

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

- [AWS SDK for Python](#)

Schemas

Response Bodies

Example ListEntitlementsResponse

```
{
  "entitlements": [
    {
      "entitlementArn": "string",
      "entitlementName": "string"
    }
  ],
  "nextToken": "string"
}
```

Example ResponseError

```
{
  "message": "string"
}
```

Properties

ListEntitlementsResponse

entitlements

A list of entitlements that have been granted to you from other AWS accounts.

Type: array

Required: True

nextToken

The token that identifies which batch of results that you want to see. For example, you submit a ListEntitlements request with MaxResults set at 5. The service returns the first batch of results (up to 5) and a NextToken value. To see the next batch of results, you can submit the ListEntitlements request a second time and specify the NextToken value.

Type: string

Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ListedEntitlement

entitlementArn

The ARN of the entitlement.

Type: string

Required: True

entitlementName

The name of the entitlement.

Type: string

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string

Required: True

See Also

- [AWS SDK for Ruby V2](#)

ListFlows, CreateFlow

URI

/v1/flows

HTTP Methods

GET

Operation ID: ListFlows

Displays a list of flows that are associated with the account. This request returns a paginated result.

Query Parameters

Name	Type	Required	Description
<code>nextToken</code>	String	False	The token that identifies which batch of results that you want to see. For example, you submit a <code>ListEntitlements</code> request with <code>MaxResults</code> set at 5. The service returns the first batch of results (up to 5) and a <code>NextToken</code> value. To see the next batch of results, you can submit the <code>ListEntitlements</code> request a second time and specify the <code>NextToken</code> value.
<code>maxResults</code>	String	False	The maximum number of results to return per API request. For example, you submit a <code>ListEntitlements</code> request with <code>MaxResults</code> set at 5. Although 20 items match your request, the service returns no more than the first 5 items. (The service also returns a <code>NextToken</code> value that you can use to fetch the next batch of results.) The service might return fewer results than the <code>MaxResults</code> value. If <code>MaxResults</code> is not included in the request, the service defaults to pagination with a maximum of 20 results per page.

Responses

Status Code	Response Model	Description
200	ListFlowsResponse (p. 14)	AWS Elemental MediaConnect returned the list of flows successfully.

Status Code	Response Model	Description
400	ResponseError (p. 16)	The request that you submitted is not valid.
429	ResponseError (p. 16)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 16)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 16)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

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

POST

Operation ID: CreateFlow

Creates a new flow. The request must include one source. The request optionally can include outputs (up to 20) and entitlements (up to 50).

Responses

Status Code	Response Model	Description
201	CreateFlowResponse (p. 15)	AWS Elemental MediaConnect created the new resource successfully.
400	ResponseError (p. 16)	The request that you submitted is not valid.
403	ResponseError (p. 16)	You don't have the required permissions to perform this operation.

Status Code	Response Model	Description
420	ResponseError (p. 16)	Your account already contains the maximum number of 20 flows per account, per Region. For more information, contact AWS Customer Support.
429	ResponseError (p. 16)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 16)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 16)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

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

Schemas

Request Bodies

Example POST

```
{
  "entitlements": [
    {
      "encryption": {
        "roleArn": "string",
        "secretArn": "string",
        "keyType": enum,
        "algorithm": enum
      },
      "subscribers": [
        "string"
      ],
      "name": "string",

```

```

    "description": "string"
  }
],
"outputs": [
  {
    "protocol": enum,
    "encryption": {
      "roleArn": "string",
      "secretArn": "string",
      "keyType": enum,
      "algorithm": enum
    },
    "streamId": "string",
    "port": integer,
    "destination": "string",
    "maxLatency": integer,
    "name": "string",
    "description": "string",
    "smoothingLatency": integer
  }
],
"name": "string",
"source": {
  "protocol": enum,
  "streamId": "string",
  "maxLatency": integer,
  "name": "string",
  "description": "string",
  "maxBitrate": integer,
  "entitlementArn": "string",
  "decryption": {
    "roleArn": "string",
    "secretArn": "string",
    "keyType": enum,
    "algorithm": enum
  },
  "ingestPort": integer,
  "whitelistCidr": "string"
},
"availabilityZone": "string"
}

```

Response Bodies

Example ListFlowsResponse

```

{
  "flows": [
    {
      "flowArn": "string",
      "sourceType": enum,
      "name": "string",
      "description": "string",
      "availabilityZone": "string",
      "status": enum
    }
  ],
  "nextToken": "string"
}

```

Example CreateFlowResponse

```
{
  "flow": {
    "entitlements": [
      {
        "encryption": {
          "roleArn": "string",
          "secretArn": "string",
          "keyType": enum,
          "algorithm": enum
        },
        "subscribers": [
          "string"
        ],
        "name": "string",
        "description": "string",
        "entitlementArn": "string"
      }
    ],
    "outputs": [
      {
        "outputArn": "string",
        "encryption": {
          "roleArn": "string",
          "secretArn": "string",
          "keyType": enum,
          "algorithm": enum
        },
        "port": integer,
        "destination": "string",
        "name": "string",
        "description": "string",
        "entitlementArn": "string",
        "transport": {
          "protocol": enum,
          "streamId": "string",
          "maxLatency": integer,
          "maxBitrate": integer,
          "smoothingLatency": integer
        },
        "mediaLiveInputArn": "string"
      }
    ],
    "flowArn": "string",
    "name": "string",
    "description": "string",
    "egressIp": "string",
    "source": {
      "sourceArn": "string",
      "name": "string",
      "description": "string",
      "entitlementArn": "string",
      "ingestIp": "string",
      "transport": {
        "protocol": enum,
        "streamId": "string",
        "maxLatency": integer,
        "maxBitrate": integer,
        "smoothingLatency": integer
      },
      "decryption": {
        "roleArn": "string",
        "secretArn": "string",
        "keyType": enum,

```

```
    "algorithm": enum
  },
  "ingestPort": integer,
  "whitelistCidr": "string"
},
"availabilityZone": "string",
"status": enum
}
}
```

Example ResponseError

```
{
  "message": "string"
}
```

Properties

AddOutputRequest

protocol

The protocol to use for the output.

Type: string
Required: True
Values: zixi-push | rtp-fec | rtp

encryption

The encryption credentials that you want to use for the output.

Type: [Encryption \(p. 18\)](#)
Required: False

streamId

The stream ID that you want to use for the transport. This parameter applies only to Zixi-based streams.

Type: string
Required: False

port

The port to use when content is distributed to the output.

Type: integer
Required: True

destination

The IP address from which AWS Elemental MediaConnect sends video to output destinations.

Type: string
Required: True

maxLatency

The maximum latency in milliseconds for Zixi-based streams.

Type: integer
Required: False
Format: int64

name

The name of the output. This value must be unique within the current flow.

Type: string
Required: False

description

A description of the output. This description is not visible outside of the current AWS account even if the account grants entitlements to other accounts.

Type: string
Required: False

smoothingLatency

The smoothing latency in milliseconds for RTP and RTP-FEC streams.

Type: integer
Required: False
Format: int64

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

CreateFlowRequest

entitlements

The entitlements that you want to grant on the flow.

Type: array
Required: False

outputs

The outputs that you want to add to the flow.

Type: array
Required: False

name

The name of the flow.

Type: string

Required: True

source

The settings for the source of the flow.

Type: [SetSourceRequest \(p. 26\)](#)

Required: True

availabilityZone

The Availability Zone that you want to create the flow in. These options are limited to the Availability Zones within the current AWS Region.

Type: string

Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

CreateFlowResponse

flow

The flow that you created.

Type: [Flow \(p. 20\)](#)

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Encryption

roleArn

The Amazon Resource Name (ARN) of the role that you created during setup (when you set up AWS Elemental MediaConnect as a trusted entity).

Type: string
Required: True

secretArn

The ARN of the secret that you created in AWS Secrets Manager to store the encryption key.

Type: string
Required: True

keyType

The type of key that is used for the encryption. If you don't specify a `keyType` value, the service uses the default setting (`static-key`).

Type: string
Required: False
Values: `static-key`

algorithm

The type of algorithm that is used for the encryption (such as `aes128`, `aes192`, or `aes256`).

Type: string
Required: True
Values: `aes128` | `aes192` | `aes256`

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Entitlement

encryption

The type of encryption that AWS Elemental MediaConnect will use on the output that is associated with the entitlement.

Type: [Encryption \(p. 18\)](#)
Required: False

subscribers

The AWS account IDs that you want to share your content with. The receiving accounts (subscribers) will be allowed to create their own flow using your content as the source.

Type: array
Required: True

name

The name of the entitlement.

Type: string

Required: True

description

A description of the entitlement. This description appears only on the AWS Elemental MediaConnect console and is not visible outside of the current AWS account.

Type: string

Required: False

entitlementArn

The ARN of the entitlement.

Type: string

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Flow

entitlements

The entitlements in the flow.

Type: array

Required: True

outputs

The outputs in the flow.

Type: array

Required: True

flowArn

The Amazon Resource Name (ARN) of the flow.

Type: string

Required: True

name

The name of the flow.

Type: string

Required: True

description

A description of the flow. This description appears only on the AWS Elemental MediaConnect console and is not visible outside of the current AWS account.

Type: string

Required: False

egressIp

The outgoing IP address that AWS Elemental MediaConnect uses to send video from the flow.

Type: string

Required: False

source

The source for the flow.

Type: [Source \(p. 27\)](#)

Required: True

availabilityZone

The Availability Zone that you want to create the flow in. These options are limited to the Availability Zones within the current AWS Region.

Type: string

Required: True

status

The current status of the flow.

Type: string

Required: True

Values: STANDBY | ACTIVE | UPDATING | DELETING | STARTING | STOPPING | ERROR

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

GrantEntitlementRequest

encryption

The type of encryption that AWS Elemental MediaConnect will use on the output that is associated with the entitlement.

Type: [Encryption \(p. 18\)](#)

Required: False

subscribers

The AWS account IDs that you want to share your content with. The receiving accounts (subscribers) will be allowed to create their own flows using your content as the source.

Type: array

Required: True

name

The name of the entitlement. This value must be unique within the current flow.

Type: string

Required: False

description

A description of the entitlement. This description appears only on the AWS Elemental MediaConnect console and is not visible outside of the current AWS account.

Type: string

Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ListFlowsResponse

flows

A list of flow summaries.

Type: array

Required: True

nextToken

The token that identifies which batch of results that you want to see. For example, you submit a ListFlows request with MaxResults set at 5. The service returns the first batch of results (up to 5) and a

NextToken value. To see the next batch of results, you can submit the ListFlows request a second time and specify the NextToken value.

Type: string
Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ListedFlow

flowArn

The Amazon Resource Name (ARN) of the flow.

Type: string
Required: True

sourceType

The type of source. This value is either owned (originated somewhere other than an AWS Elemental MediaConnect flow owned by another AWS account) or entitled (originated at an AWS Elemental MediaConnect flow owned by another AWS account).

Type: string
Required: True
Values: OWNED | ENTITLED

name

The name of the flow.

Type: string
Required: True

description

A description of the flow. This description appears only on the AWS Elemental MediaConnect console and is not visible outside of the current AWS account.

Type: string
Required: True

availabilityZone

The Availability Zone that the flow was created in.

Type: string

Required: True

status

The current status of the flow.

Type: string

Required: True

Values: STANDBY | ACTIVE | UPDATING | DELETING | STARTING | STOPPING | ERROR

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Output

outputArn

The ARN of the output.

Type: string

Required: True

encryption

The encryption credentials that you want to use for the output.

Type: [Encryption \(p. 18\)](#)

Required: False

port

The port to use when content is distributed to the output.

Type: integer

Required: False

destination

The address where you want to send the output.

Type: string

Required: False

name

The name of the output. This value must be unique within the current flow.

Type: string

Required: True

description

A description of the output. This description is not visible outside of the current AWS account even if the account grants entitlements to other accounts.

Type: string

Required: False

entitlementArn

The ARN of the entitlement on the originator's flow. This value is relevant only on entitled flows.

Type: string

Required: False

transport

Attributes that are related to the transport stream.

Type: [Transport \(p. 29\)](#)

Required: False

mediaLiveInputArn

The input ARN of the AWS Elemental MediaLive channel. This parameter is relevant only for outputs that AWS Elemental MediaConnect added to send content to a MediaLive input.

Type: string

Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string

Required: True

See Also

- [AWS SDK for Ruby V2](#)

SetSourceRequest

protocol

The protocol that the source uses to deliver the content to AWS Elemental MediaConnect.

Type: string

Required: False

Values: zixi-push | rtp-fec | rtp

streamId

The stream ID that you want to use for the transport. This parameter applies only to Zixi-based streams.

Type: string

Required: False

maxLatency

The maximum latency in milliseconds for Zixi-based streams.

Type: integer

Required: False

Format: int64

name

The name of the source.

Type: string

Required: False

description

A description of the source. This description is not visible outside of the current AWS account.

Type: string

Required: False

maxBitrate

The smoothing max bitrate for RTP and RTP-FEC streams.

Type: integer

Required: False

Format: int64

entitlementArn

The ARN of the entitlement that allows you to subscribe to the flow. The content originator grants the entitlement, and the ARN is auto-generated as part of the originator's flow.

Type: string

Required: False

decryption

The type of encryption that is used on the content ingested from the source.

Type: [Encryption \(p. 18\)](#)

Required: False

ingestPort

The port that the flow listens on for incoming content. If the protocol of the source is Zixi, the port must be set to 2088.

Type: integer

Required: False

whitelistCidr

The range of IP addresses that are allowed to contribute content to your source. Use the form of a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16.

Type: string

Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Source

sourceArn

The ARN of the source.

Type: string

Required: True

name

The name of the source.

Type: string

Required: True

description

A description of the source. This description is not visible outside of the current AWS account.

Type: string
Required: False

entitlementArn

The ARN of the entitlement that allows you to subscribe to content that comes from another AWS account. The entitlement is set by the content originator and the ARN is generated as part of the originator's flow.

Type: string
Required: False

ingestIp

The IP address that the flow listens on for incoming content.

Type: string
Required: False

transport

Attributes that are related to the transport stream.

Type: [Transport \(p. 29\)](#)
Required: False

decryption

The type of encryption that is used on the content ingested from the source.

Type: [Encryption \(p. 18\)](#)
Required: False

ingestPort

The port that the flow listens on for incoming content. If the protocol of the source is Zixi, the port must be set to 2088.

Type: integer
Required: False

whitelistCidr

The range of IP addresses that are allowed to contribute content to your source. Use the form of a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16.

Type: string
Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Transport

protocol

The protocol that is used by the source or output.

Type: string

Required: True

Values: zixi-push | rtp-fec | rtp

streamId

The stream ID that you want to use for the transport. This parameter applies only to Zixi-based streams.

Type: string

Required: False

maxLatency

The maximum latency in milliseconds for Zixi-based streams.

Type: integer

Required: False

Format: int64

maxBitrate

The smoothing max bitrate for RTP and RTP-FEC streams.

Type: integer

Required: False

Format: int64

smoothingLatency

The smoothing latency in milliseconds for RTP and RTP-FEC streams.

Type: integer

Required: False

Format: int64

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

StartFlow

URI

/v1/flows/start/*flowArn*

HTTP Methods

POST

Operation ID: StartFlow

Starts a flow.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.

Responses

Status Code	Response Model	Description
202	StartFlowResponse (p. 31)	AWS Elemental MediaConnect is starting the flow.
400	ResponseError (p. 31)	The request that you submitted is not valid.
403	ResponseError (p. 31)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 31)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
429	ResponseError (p. 31)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 31)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 31)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

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

Schemas

Response Bodies

Example StartFlowResponse

```
{
  "flowArn": "string",
  "status": enum
}
```

Example ResponseError

```
{
  "message": "string"
}
```

Properties

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string

Required: True

See Also

- [AWS SDK for Ruby V2](#)

StartFlowResponse

flowArn

The ARN of the flow that you started.

Type: string
Required: True

status

The status of the flow when the StartFlow process begins.

Type: string
Required: True
Values: STANDBY | ACTIVE | UPDATING | DELETING | STARTING | STOPPING | ERROR

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

StopFlow

URI

/v1/flows/stop/*flowArn*

HTTP Methods

POST

Operation ID: StopFlow

Stops a flow.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.

Responses

Status Code	Response Model	Description
202	StopFlowResponse (p. 33)	AWS Elemental MediaConnect is stopping the flow.
400	ResponseError (p. 33)	The request that you submitted is not valid.

Status Code	Response Model	Description
403	ResponseError (p. 33)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 33)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
429	ResponseError (p. 33)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 33)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 33)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

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

Schemas

Response Bodies

Example StopFlowResponse

```
{
  "flowArn": "string",
  "status": enum
}
```

Example ResponseError

```
{
```

```
"message": "string"  
}
```

Properties

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string

Required: True

See Also

- [AWS SDK for Ruby V2](#)

StopFlowResponse

flowArn

The ARN of the flow that you stopped.

Type: string

Required: True

status

The status of the flow when the StopFlow process begins.

Type: string

Required: True

Values: STANDBY | ACTIVE | UPDATING | DELETING | STARTING | STOPPING | ERROR

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DescribeFlow, DeleteFlow

URI

/v1/flows/*flowArn*

HTTP Methods

GET

Operation ID: DescribeFlow

Displays the details of a flow. The response includes the flow ARN, name, and Availability Zone, as well as details about the source, outputs, and entitlements.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.

Responses

Status Code	Response Model	Description
200	DescribeFlowResponse (p. 37)	AWS Elemental MediaConnect returned the flow details successfully.
400	ResponseError (p. 38)	The request that you submitted is not valid.
403	ResponseError (p. 38)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 38)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
429	ResponseError (p. 38)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 38)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 38)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

- [AWS SDK for JavaScript](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Ruby V2](#)
- [AWS Command Line Interface](#)
- [AWS SDK for Python](#)

DELETE

Operation ID: DeleteFlow

Deletes a flow. Before you can delete a flow, you must stop the flow.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.

Responses

Status Code	Response Model	Description
202	DeleteFlowResponse (p. 38)	AWS Elemental MediaConnect is deleting the flow.
400	ResponseError (p. 38)	The request that you submitted is not valid.
403	ResponseError (p. 38)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 38)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
429	ResponseError (p. 38)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 38)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 38)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

- [AWS SDK for JavaScript](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

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

Schemas

Response Bodies

Example DescribeFlowResponse

```
{
  "messages": {
    "errors": [
      "string"
    ]
  },
  "flow": {
    "entitlements": [
      {
        "encryption": {
          "roleArn": "string",
          "secretArn": "string",
          "keyType": enum,
          "algorithm": enum
        },
        "subscribers": [
          "string"
        ],
        "name": "string",
        "description": "string",
        "entitlementArn": "string"
      }
    ],
    "outputs": [
      {
        "outputArn": "string",
        "encryption": {
          "roleArn": "string",
          "secretArn": "string",
          "keyType": enum,
          "algorithm": enum
        },
        "port": integer,
        "destination": "string",
        "name": "string",
        "description": "string",
        "entitlementArn": "string",
        "transport": {
          "protocol": enum,
          "streamId": "string",
          "maxLatency": integer,
          "maxBitrate": integer,
          "smoothingLatency": integer
        },
        "mediaLiveInputArn": "string"
      }
    ]
  }
}
```

```

    }
  ],
  "flowArn": "string",
  "name": "string",
  "description": "string",
  "egressIp": "string",
  "source": {
    "sourceArn": "string",
    "name": "string",
    "description": "string",
    "entitlementArn": "string",
    "ingestIp": "string",
    "transport": {
      "protocol": enum,
      "streamId": "string",
      "maxLatency": integer,
      "maxBitrate": integer,
      "smoothingLatency": integer
    },
    "decryption": {
      "roleArn": "string",
      "secretArn": "string",
      "keyType": enum,
      "algorithm": enum
    },
    "ingestPort": integer,
    "whitelistCidr": "string"
  },
  "availabilityZone": "string",
  "status": enum
}
}

```

Example DeleteFlowResponse

```

{
  "flowArn": "string",
  "status": enum
}

```

Example ResponseError

```

{
  "message": "string"
}

```

Properties

DeleteFlowResponse

flowArn

The ARN of the flow that you deleted.

Type: string

Required: True

status

The status of the flow when the DeleteFlow process begins.

Type: string

Required: True

Values: STANDBY | ACTIVE | UPDATING | DELETING | STARTING | STOPPING | ERROR

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

DescribeFlowResponse

messages

Any errors that apply currently to the flow. If there are no errors, AWS Elemental MediaConnect will not include this field in the response.

Type: [Messages \(p. 42\)](#)

Required: False

flow

The flow that you requested a description of.

Type: [Flow \(p. 41\)](#)

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Encryption

roleArn

The Amazon Resource Name (ARN) of the role that you created during setup (when you set up AWS Elemental MediaConnect as a trusted entity).

Type: string

Required: True

secretArn

The ARN of the secret that you created in AWS Secrets Manager to store the encryption key.

Type: string

Required: True

keyType

The type of key that is used for the encryption. If you don't specify a `keyType` value, the service uses the default setting (`static-key`).

Type: string
Required: False
Values: `static-key`

algorithm

The type of algorithm that is used for the encryption (such as `aes128`, `aes192`, or `aes256`).

Type: string
Required: True
Values: `aes128` | `aes192` | `aes256`

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Entitlement

encryption

The type of encryption that AWS Elemental MediaConnect will use on the output that is associated with the entitlement.

Type: [Encryption \(p. 39\)](#)
Required: False

subscribers

The AWS account IDs that you want to share your content with. The receiving accounts (subscribers) will be allowed to create their own flow using your content as the source.

Type: array
Required: True

name

The name of the entitlement.

Type: string
Required: True

description

A description of the entitlement. This description appears only on the AWS Elemental MediaConnect console and is not visible outside of the current AWS account.

Type: string
Required: False

entitlementArn

The ARN of the entitlement.

Type: string
Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Flow

entitlements

The entitlements in the flow.

Type: array
Required: True

outputs

The outputs in the flow.

Type: array
Required: True

flowArn

The Amazon Resource Name (ARN) of the flow.

Type: string
Required: True

name

The name of the flow.

Type: string
Required: True

description

A description of the flow. This description appears only on the AWS Elemental MediaConnect console and is not visible outside of the current AWS account.

Type: string
Required: False

egressIp

The outgoing IP address that AWS Elemental MediaConnect uses to send video from the flow.

Type: string
Required: False

source

The source for the flow.

Type: [Source \(p. 44\)](#)
Required: True

availabilityZone

The Availability Zone that you want to create the flow in. These options are limited to the Availability Zones within the current AWS Region.

Type: string
Required: True

status

The current status of the flow.

Type: string
Required: True
Values: STANDBY | ACTIVE | UPDATING | DELETING | STARTING | STOPPING | ERROR

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Messages

errors

A list of errors that apply currently to the flow. If there are no errors, AWS Elemental MediaConnect will not include this field in the response.

Type: array
Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Output

outputArn

The ARN of the output.

Type: string
Required: True

encryption

The encryption credentials that you want to use for the output.

Type: [Encryption \(p. 39\)](#)
Required: False

port

The port to use when content is distributed to the output.

Type: integer
Required: False

destination

The address where you want to send the output.

Type: string
Required: False

name

The name of the output. This value must be unique within the current flow.

Type: string
Required: True

description

A description of the output. This description is not visible outside of the current AWS account even if the account grants entitlements to other accounts.

Type: string
Required: False

entitlementArn

The ARN of the entitlement on the originator's flow. This value is relevant only on entitled flows.

Type: string
Required: False

transport

Attributes that are related to the transport stream.

Type: [Transport \(p. 46\)](#)
Required: False

mediaLiveInputArn

The input ARN of the AWS Elemental MediaLive channel. This parameter is relevant only for outputs that AWS Elemental MediaConnect added to send content to a MediaLive input.

Type: string
Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string
Required: True

See Also

- [AWS SDK for Ruby V2](#)

Source

sourceArn

The ARN of the source.

Type: string
Required: True

name

The name of the source.

Type: string
Required: True

description

A description of the source. This description is not visible outside of the current AWS account.

Type: string
Required: False

entitlementArn

The ARN of the entitlement that allows you to subscribe to content that comes from another AWS account. The entitlement is set by the content originator and the ARN is generated as part of the originator's flow.

Type: string
Required: False

ingestIp

The IP address that the flow listens on for incoming content.

Type: string
Required: False

transport

Attributes that are related to the transport stream.

Type: [Transport \(p. 46\)](#)
Required: False

decryption

The type of encryption that is used on the content ingested from the source.

Type: [Encryption \(p. 39\)](#)
Required: False

ingestPort

The port that the flow listens on for incoming content. If the protocol of the source is Zixi, the port must be set to 2088.

Type: integer
Required: False

whitelistCidr

The range of IP addresses that are allowed to contribute content to your source. Use the form of a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16.

Type: string

Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Transport

protocol

The protocol that is used by the source or output.

Type: string

Required: True

Values: zixi-push | rtp-fec | rtp

streamId

The stream ID that you want to use for the transport. This parameter applies only to Zixi-based streams.

Type: string

Required: False

maxLatency

The maximum latency in milliseconds for Zixi-based streams.

Type: integer

Required: False

Format: int64

maxBitrate

The smoothing max bitrate for RTP and RTP-FEC streams.

Type: integer

Required: False

Format: int64

smoothingLatency

The smoothing latency in milliseconds for RTP and RTP-FEC streams.

Type: integer

Required: False

Format: int64

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

GrantFlowEntitlements

URI

/v1/flows/*flowArn*/entitlements

HTTP Methods

POST

Operation ID: GrantFlowEntitlements

Grants entitlements to an existing flow.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.

Responses

Status Code	Response Model	Description
200	GrantFlowEntitlementsResponse	AWS Elemental MediaConnect granted the entitlements successfully.
400	ResponseError (p. 49)	The request that you submitted is not valid.
403	ResponseError (p. 49)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 49)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
420	ResponseError (p. 49)	Your account already contains the maximum number of 20 flows per account, per Region. For more information, contact AWS Customer Support.

Status Code	Response Model	Description
429	ResponseError (p. 49)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 49)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 49)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

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

Schemas

Request Bodies

Example POST

```
{
  "entitlements": [
    {
      "encryption": {
        "roleArn": "string",
        "secretArn": "string",
        "keyType": enum,
        "algorithm": enum
      },
      "subscribers": [
        "string"
      ],
      "name": "string",
      "description": "string"
    }
  ]
}
```

Response Bodies

Example GrantFlowEntitlementsResponse

```
{
  "entitlements": [
    {
      "encryption": {
        "roleArn": "string",
        "secretArn": "string",
        "keyType": enum,
        "algorithm": enum
      },
      "subscribers": [
        "string"
      ],
      "name": "string",
      "description": "string",
      "entitlementArn": "string"
    }
  ],
  "flowArn": "string"
}
```

Example ResponseError

```
{
  "message": "string"
}
```

Properties

Encryption

roleArn

The Amazon Resource Name (ARN) of the role that you created during setup (when you set up AWS Elemental MediaConnect as a trusted entity).

Type: string
Required: True

secretArn

The ARN of the secret that you created in AWS Secrets Manager to store the encryption key.

Type: string
Required: True

keyType

The type of key that is used for the encryption. If you don't specify a `keyType` value, the service uses the default setting (`static-key`).

Type: string
Required: False
Values: `static-key`

algorithm

The type of algorithm that is used for the encryption (such as aes128, aes192, or aes256).

Type: string

Required: True

Values: aes128 | aes192 | aes256

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Entitlement

encryption

The type of encryption that AWS Elemental MediaConnect will use on the output that is associated with the entitlement.

Type: [Encryption \(p. 49\)](#)

Required: False

subscribers

The AWS account IDs that you want to share your content with. The receiving accounts (subscribers) will be allowed to create their own flow using your content as the source.

Type: array

Required: True

name

The name of the entitlement.

Type: string

Required: True

description

A description of the entitlement. This description appears only on the AWS Elemental MediaConnect console and is not visible outside of the current AWS account.

Type: string

Required: False

entitlementArn

The ARN of the entitlement.

Type: string
Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

GrantEntitlementRequest

encryption

The type of encryption that AWS Elemental MediaConnect will use on the output that is associated with the entitlement.

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

subscribers

The AWS account IDs that you want to share your content with. The receiving accounts (subscribers) will be allowed to create their own flows using your content as the source.

Type: array
Required: True

name

The name of the entitlement. This value must be unique within the current flow.

Type: string
Required: False

description

A description of the entitlement. This description appears only on the AWS Elemental MediaConnect console and is not visible outside of the current AWS account.

Type: string
Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

GrantFlowEntitlementsRequest

entitlements

The list of entitlements that you want to grant.

Type: array

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

GrantFlowEntitlementsResponse

entitlements

The entitlements that were just granted.

Type: array

Required: True

flowArn

The ARN of the flow that these entitlements were granted to.

Type: string

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string

Required: True

See Also

- [AWS SDK for Ruby V2](#)

UpdateFlowEntitlement, RevokeFlowEntitlement

URI

`/v1/flows/flowArn/entitlements/entitlementArn`

HTTP Methods

PUT

Operation ID: UpdateFlowEntitlement

Changes an entitlement on a flow. You can change an entitlement's description, subscriber account ID, and encryption. If you change the subscriber account ID, the service will remove the output that was generated when the original subscriber set up their flow.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.
<i>entitlementArn</i>	String	True	The ARN of the entitlement that you want to update.

Responses

Status Code	Response Model	Description
202	UpdateFlowEntitlementResponse	AWS Elemental MediaConnect is updating the entitlement.
400	ResponseError (p. 56)	The request that you submitted is not valid.
403	ResponseError (p. 56)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 56)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
429	ResponseError (p. 56)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 56)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.

Status Code	Response Model	Description
503	ResponseError (p. 56)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

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

DELETE

Operation ID: RevokeFlowEntitlement

Revokes an entitlement from a flow. When you revoke an entitlement is revoked, the content becomes unavailable to the subscriber and AWS Elemental MediaConnect removes the associated output.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.
<i>entitlementArn</i>	String	True	The ARN of the entitlement that you want to update.

Responses

Status Code	Response Model	Description
202	RevokeFlowEntitlementResponse	AWS Elemental MediaConnect is revoking the entitlement.
400	ResponseError (p. 56)	The request that you submitted is not valid.
403	ResponseError (p. 56)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 56)	AWS Elemental MediaConnect did not find the resource that you specified in the request.

Status Code	Response Model	Description
429	ResponseError (p. 56)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 56)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 56)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

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

Schemas

Request Bodies

Example PUT

```
{
  "encryption": {
    "roleArn": "string",
    "secretArn": "string",
    "keyType": enum,
    "algorithm": enum
  },
  "subscribers": [
    "string"
  ],
  "description": "string"
}
```

Response Bodies

Example UpdateFlowEntitlementResponse

```
{
```

```
"flowArn": "string",
"entitlement": {
  "encryption": {
    "roleArn": "string",
    "secretArn": "string",
    "keyType": enum,
    "algorithm": enum
  },
  "subscribers": [
    "string"
  ],
  "name": "string",
  "description": "string",
  "entitlementArn": "string"
}
}
```

Example RevokeFlowEntitlementResponse

```
{
  "flowArn": "string",
  "entitlementArn": "string"
}
```

Example ResponseError

```
{
  "message": "string"
}
```

Properties

Encryption

roleArn

The Amazon Resource Name (ARN) of the role that you created during setup (when you set up AWS Elemental MediaConnect as a trusted entity).

Type: string
Required: True

secretArn

The ARN of the secret that you created in AWS Secrets Manager to store the encryption key.

Type: string
Required: True

keyType

The type of key that is used for the encryption. If you don't specify a `keyType` value, the service uses the default setting (`static-key`).

Type: string
Required: False
Values: `static-key`

algorithm

The type of algorithm that is used for the encryption (such as aes128, aes192, or aes256).

Type: string

Required: True

Values: aes128 | aes192 | aes256

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Entitlement

encryption

The type of encryption that AWS Elemental MediaConnect will use on the output that is associated with the entitlement.

Type: [Encryption \(p. 56\)](#)

Required: False

subscribers

The AWS account IDs that you want to share your content with. The receiving accounts (subscribers) will be allowed to create their own flow using your content as the source.

Type: array

Required: True

name

The name of the entitlement.

Type: string

Required: True

description

A description of the entitlement. This description appears only on the AWS Elemental MediaConnect console and is not visible outside of the current AWS account.

Type: string

Required: False

entitlementArn

The ARN of the entitlement.

Type: string

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string
Required: True

See Also

- [AWS SDK for Ruby V2](#)

RevokeFlowEntitlementResponse

flowArn

The ARN of the flow that the entitlement was revoked from.

Type: string
Required: True

entitlementArn

The ARN of the entitlement that you revoked.

Type: string
Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateEncryption

roleArn

The ARN of the role that you created during setup (when you set up AWS Elemental MediaConnect as a trusted entity).

Type: string
Required: False

secretArn

The ARN of the secret that you created in AWS Secrets Manager to store the encryption key.

Type: string
Required: False

keyType

The type of key that is used for the encryption. If you don't specify a `keyType` value, the service uses the default setting (`static-key`).

Type: string
Required: False
Values: `static-key`

algorithm

The type of algorithm that is used for the encryption (such as `aes128`, `aes192`, or `aes256`).

Type: string
Required: False
Values: `aes128` | `aes192` | `aes256`

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateFlowEntitlementRequest

encryption

The type of encryption that AWS Elemental MediaConnect will use on the output that is associated with the entitlement.

Type: [UpdateEncryption \(p. 58\)](#)
Required: False

subscribers

The AWS account IDs that you want to share your content with. The receiving accounts (subscribers) will be allowed to create their own flow using your content as the source.

Type: array
Required: False

description

A description of the entitlement. This description appears only on the AWS Elemental MediaConnect console and is not visible outside of the current AWS account.

Type: string

Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateFlowEntitlementResponse

flowArn

The ARN of the flow that the entitlement was granted on.

Type: string

Required: True

entitlement

Type: [Entitlement](#) (p. 57)

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

AddFlowOutputs

URI

`/v1/flows/flowArn/outputs`

HTTP Methods

POST

Operation ID: AddFlowOutputs

Adds outputs to an existing flow. You can create up to 20 outputs per flow.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.

Responses

Status Code	Response Model	Description
201	AddFlowOutputsResponse (p. 63)	AWS Elemental MediaConnect created the new resource successfully.
400	ResponseError (p. 63)	The request that you submitted is not valid.
403	ResponseError (p. 63)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 63)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
420	ResponseError (p. 63)	Your account already contains the maximum number of 20 flows per account, per Region. For more information, contact AWS Customer Support.
429	ResponseError (p. 63)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 63)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 63)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

- [AWS SDK for JavaScript](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Ruby V2](#)
- [AWS Command Line Interface](#)
- [AWS SDK for Python](#)

Schemas

Request Bodies

Example POST

```
{
  "outputs": [
    {
      "protocol": enum,
      "encryption": {
        "roleArn": "string",
        "secretArn": "string",
        "keyType": enum,
        "algorithm": enum
      },
      "streamId": "string",
      "port": integer,
      "destination": "string",
      "maxLatency": integer,
      "name": "string",
      "description": "string",
      "smoothingLatency": integer
    }
  ]
}
```

Response Bodies

Example AddFlowOutputsResponse

```
{
  "outputs": [
    {
      "outputArn": "string",
      "encryption": {
        "roleArn": "string",
        "secretArn": "string",
        "keyType": enum,
        "algorithm": enum
      },
      "port": integer,
      "destination": "string",
      "name": "string",
      "description": "string",
      "entitlementArn": "string",
      "transport": {
        "protocol": enum,
        "streamId": "string",
        "maxLatency": integer,
        "maxBitrate": integer,
        "smoothingLatency": integer
      },
    },
  ]
}
```

```
    "mediaLiveInputArn": "string"  
  }  
],  
"flowArn": "string"  
}
```

Example ResponseError

```
{  
  "message": "string"  
}
```

Properties

AddFlowOutputsRequest

outputs

A list of outputs that you want to add.

Type: array
Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

AddFlowOutputsResponse

outputs

The details of the newly added outputs.

Type: array
Required: True

flowArn

The ARN of the flow that these outputs are associated with.

Type: string
Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)

- [AWS SDK for Ruby V2](#)

AddOutputRequest

protocol

The protocol to use for the output.

Type: string

Required: True

Values: zixi-push | rtp-fec | rtp

encryption

The encryption credentials that you want to use for the output.

Type: [Encryption \(p. 65\)](#)

Required: False

streamId

The stream ID that you want to use for the transport. This parameter applies only to Zixi-based streams.

Type: string

Required: False

port

The port to use when content is distributed to the output.

Type: integer

Required: True

destination

The IP address from which AWS Elemental MediaConnect sends video to output destinations.

Type: string

Required: True

maxLatency

The maximum latency in milliseconds for Zixi-based streams.

Type: integer

Required: False

Format: int64

name

The name of the output. This value must be unique within the current flow.

Type: string

Required: False

description

A description of the output. This description is not visible outside of the current AWS account even if the account grants entitlements to other accounts.

Type: string

Required: False

smoothingLatency

The smoothing latency in milliseconds for RTP and RTP-FEC streams.

Type: integer

Required: False

Format: int64

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Encryption

roleArn

The Amazon Resource Name (ARN) of the role that you created during setup (when you set up AWS Elemental MediaConnect as a trusted entity).

Type: string

Required: True

secretArn

The ARN of the secret that you created in AWS Secrets Manager to store the encryption key.

Type: string

Required: True

keyType

The type of key that is used for the encryption. If you don't specify a `keyType` value, the service uses the default setting (`static-key`).

Type: string

Required: False

Values: `static-key`

algorithm

The type of algorithm that is used for the encryption (such as `aes128`, `aes192`, or `aes256`).

Type: string
Required: True
Values: aes128 | aes192 | aes256

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Output

outputArn

The ARN of the output.

Type: string
Required: True

encryption

The encryption credentials that you want to use for the output.

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

port

The port to use when content is distributed to the output.

Type: integer
Required: False

destination

The address where you want to send the output.

Type: string
Required: False

name

The name of the output. This value must be unique within the current flow.

Type: string
Required: True

description

A description of the output. This description is not visible outside of the current AWS account even if the account grants entitlements to other accounts.

Type: string
Required: False

entitlementArn

The ARN of the entitlement on the originator's flow. This value is relevant only on entitled flows.

Type: string
Required: False

transport

Attributes that are related to the transport stream.

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

mediaLiveInputArn

The input ARN of the AWS Elemental MediaLive channel. This parameter is relevant only for outputs that AWS Elemental MediaConnect added to send content to a MediaLive input.

Type: string
Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string
Required: True

See Also

- [AWS SDK for Ruby V2](#)

Transport

protocol

The protocol that is used by the source or output.

Type: string
Required: True
Values: zixi-push | rtp-fec | rtp

streamId

The stream ID that you want to use for the transport. This parameter applies only to Zixi-based streams.

Type: string
Required: False

maxLatency

The maximum latency in milliseconds for Zixi-based streams.

Type: integer
Required: False
Format: int64

maxBitrate

The smoothing max bitrate for RTP and RTP-FEC streams.

Type: integer
Required: False
Format: int64

smoothingLatency

The smoothing latency in milliseconds for RTP and RTP-FEC streams.

Type: integer
Required: False
Format: int64

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateFlowOutput, RemoveFlowOutput

URI

`/v1/flows/flowArn/outputs/outputArn`

HTTP Methods

PUT

Operation ID: UpdateFlowOutput

Updates an existing flow output.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.
<i>outputArn</i>	String	True	The ARN of the output that you want to update.

Responses

Status Code	Response Model	Description
202	UpdateFlowOutputResponse (p. 72)	AWS Elemental MediaConnect is updating the output.
400	ResponseError (p. 72)	The request that you submitted is not valid.
403	ResponseError (p. 72)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 72)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
429	ResponseError (p. 72)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 72)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 72)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

- [AWS SDK for JavaScript](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

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

DELETE

Operation ID: RemoveFlowOutput

Removes an output from an existing flow. This request can be made only on an output that does not have an entitlement associated with it. If the output has an entitlement, you must revoke the entitlement instead. When an entitlement is revoked from a flow, the service automatically removes the associated output.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.
<i>outputArn</i>	String	True	The ARN of the output that you want to update.

Responses

Status Code	Response Model	Description
202	RemoveFlowOutputResponse (p. 72)	AWS Elemental MediaConnect is removing the output.
400	ResponseError (p. 72)	The request that you submitted is not valid.
403	ResponseError (p. 72)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 72)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
429	ResponseError (p. 72)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 72)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.

Status Code	Response Model	Description
503	ResponseError (p. 72)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

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

Schemas

Request Bodies

Example PUT

```
{
  "protocol": enum,
  "encryption": {
    "roleArn": "string",
    "secretArn": "string",
    "keyType": enum,
    "algorithm": enum
  },
  "streamId": "string",
  "port": integer,
  "destination": "string",
  "maxLatency": integer,
  "description": "string",
  "smoothingLatency": integer
}
```

Response Bodies

Example UpdateFlowOutputResponse

```
{
  "output": {
    "outputArn": "string",
    "encryption": {
      "roleArn": "string",
      "secretArn": "string",
      "keyType": enum,
      "algorithm": enum
    }
  }
}
```

```
    },
    "port": integer,
    "destination": "string",
    "name": "string",
    "description": "string",
    "entitlementArn": "string",
    "transport": {
      "protocol": enum,
      "streamId": "string",
      "maxLatency": integer,
      "maxBitrate": integer,
      "smoothingLatency": integer
    },
    "mediaLiveInputArn": "string"
  },
  "flowArn": "string"
}
```

Example RemoveFlowOutputResponse

```
{
  "outputArn": "string",
  "flowArn": "string"
}
```

Example ResponseError

```
{
  "message": "string"
}
```

Properties

Encryption

roleArn

The Amazon Resource Name (ARN) of the role that you created during setup (when you set up AWS Elemental MediaConnect as a trusted entity).

Type: string
Required: True

secretArn

The ARN of the secret that you created in AWS Secrets Manager to store the encryption key.

Type: string
Required: True

keyType

The type of key that is used for the encryption. If you don't specify a `keyType` value, the service uses the default setting (`static-key`).

Type: string

Required: False
Values: `static-key`

algorithm

The type of algorithm that is used for the encryption (such as `aes128`, `aes192`, or `aes256`).

Type: string
Required: True
Values: `aes128` | `aes192` | `aes256`

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Output

outputArn

The ARN of the output.

Type: string
Required: True

encryption

The encryption credentials that you want to use for the output.

Type: [Encryption \(p. 72\)](#)
Required: False

port

The port to use when content is distributed to the output.

Type: integer
Required: False

destination

The address where you want to send the output.

Type: string
Required: False

name

The name of the output. This value must be unique within the current flow.

Type: string
Required: True

description

A description of the output. This description is not visible outside of the current AWS account even if the account grants entitlements to other accounts.

Type: string
Required: False

entitlementArn

The ARN of the entitlement on the originator's flow. This value is relevant only on entitled flows.

Type: string
Required: False

transport

Attributes that are related to the transport stream.

Type: [Transport \(p. 75\)](#)
Required: False

mediaLiveInputArn

The input ARN of the AWS Elemental MediaLive channel. This parameter is relevant only for outputs that AWS Elemental MediaConnect added to send content to a MediaLive input.

Type: string
Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

RemoveFlowOutputResponse

outputArn

The ARN of the output that you removed.

Type: string
Required: True

flowArn

The ARN of the flow that is associated with the output you removed.

Type: string
Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string
Required: True

See Also

- [AWS SDK for Ruby V2](#)

Transport

protocol

The protocol that is used by the source or output.

Type: string
Required: True
Values: zixi-push | rtp-fec | rtp

streamId

The stream ID that you want to use for the transport. This parameter applies only to Zixi-based streams.

Type: string
Required: False

maxLatency

The maximum latency in milliseconds for Zixi-based streams.

Type: integer
Required: False
Format: int64

maxBitrate

The smoothing max bitrate for RTP and RTP-FEC streams.

Type: integer
Required: False
Format: int64

smoothingLatency

The smoothing latency in milliseconds for RTP and RTP-FEC streams.

Type: integer
Required: False
Format: int64

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateEncryption

roleArn

The ARN of the role that you created during setup (when you set up AWS Elemental MediaConnect as a trusted entity).

Type: string
Required: False

secretArn

The ARN of the secret that you created in AWS Secrets Manager to store the encryption key.

Type: string
Required: False

keyType

The type of key that is used for the encryption. If you don't specify a `keyType` value, the service uses the default setting (`static-key`).

Type: string
Required: False
Values: `static-key`

algorithm

The type of algorithm that is used for the encryption (such as `aes128`, `aes192`, or `aes256`).

Type: string
Required: False
Values: `aes128` | `aes192` | `aes256`

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateFlowOutputRequest

protocol

The protocol to use for the output.

Type: string
Required: False
Values: zixi-push | rtp-fec | rtp

encryption

The encryption credentials that you want to use for the output.

Type: [UpdateEncryption](#) (p. 76)
Required: False

streamId

The stream ID that you want to use for the transport. This parameter applies only to Zixi-based streams.

Type: string
Required: False

port

The port to use when AWS Elemental MediaConnect distributes content to the output.

Type: integer
Required: False

destination

The IP address where you want to send the output.

Type: string
Required: False

maxLatency

The maximum latency in milliseconds for Zixi-based streams.

Type: integer
Required: False
Format: int64

description

A description of the output. This description is not visible outside of the current AWS account even if the account grants entitlements to other accounts.

Type: string
Required: False

smoothingLatency

The smoothing latency in milliseconds for RTP and RTP-FEC streams.

Type: integer
Required: False
Format: int64

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateFlowOutputResponse

output

Type: [Output \(p. 73\)](#)
Required: True

flowArn

The ARN of the flow that is associated with the updated output.

Type: string
Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateFlowSource

URI

`/v1/flows/flowArn/source/sourceArn`

HTTP Methods

PUT

Operation ID: UpdateFlowSource

Updates the source of a flow.

Path Parameters

Name	Type	Required	Description
<i>flowArn</i>	String	True	The Amazon Resource Name (ARN) of the flow.
<i>sourceArn</i>	String	True	The ARN of the source that you want to update.

Responses

Status Code	Response Model	Description
202	UpdateFlowSourceResponse (p. 81)	AWS Elemental MediaConnect is updating the source.
400	ResponseError (p. 81)	The request that you submitted is not valid.
403	ResponseError (p. 81)	You don't have the required permissions to perform this operation.
404	ResponseError (p. 81)	AWS Elemental MediaConnect did not find the resource that you specified in the request.
429	ResponseError (p. 81)	You have exceeded the service request rate limit for your AWS Elemental MediaConnect account.
500	ResponseError (p. 81)	AWS Elemental MediaConnect can't fulfill your request because it encountered an unexpected condition.
503	ResponseError (p. 81)	AWS Elemental MediaConnect is currently unavailable. Try again later.

See Also

- [AWS SDK for JavaScript](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

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

Schemas

Request Bodies

Example PUT

```
{
  "protocol": enum,
  "streamId": "string",
  "maxLatency": integer,
  "description": "string",
  "maxBitrate": integer,
  "entitlementArn": "string",
  "decryption": {
    "roleArn": "string",
    "secretArn": "string",
    "keyType": enum,
    "algorithm": enum
  },
  "ingestPort": integer,
  "whitelistCidr": "string"
}
```

Response Bodies

Example UpdateFlowSourceResponse

```
{
  "flowArn": "string",
  "source": {
    "sourceArn": "string",
    "name": "string",
    "description": "string",
    "entitlementArn": "string",
    "ingestIp": "string",
    "transport": {
      "protocol": enum,
      "streamId": "string",
      "maxLatency": integer,
      "maxBitrate": integer,
      "smoothingLatency": integer
    },
    "decryption": {
      "roleArn": "string",
      "secretArn": "string",
      "keyType": enum,
      "algorithm": enum
    }
  },
}
```

```
"ingestPort": integer,  
"whitelistCidr": "string"  
}  
}
```

Example ResponseError

```
{  
  "message": "string"  
}
```

Properties

Encryption

roleArn

The Amazon Resource Name (ARN) of the role that you created during setup (when you set up AWS Elemental MediaConnect as a trusted entity).

Type: string
Required: True

secretArn

The ARN of the secret that you created in AWS Secrets Manager to store the encryption key.

Type: string
Required: True

keyType

The type of key that is used for the encryption. If you don't specify a `keyType` value, the service uses the default setting (`static-key`).

Type: string
Required: False
Values: `static-key`

algorithm

The type of algorithm that is used for the encryption (such as `aes128`, `aes192`, or `aes256`).

Type: string
Required: True
Values: `aes128` | `aes192` | `aes256`

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)

- [AWS SDK for Ruby V2](#)

ResponseError

message

The specific error message that AWS Elemental MediaConnect returns to help you understand the reason that the request did not succeed.

Type: string
Required: True

See Also

- [AWS SDK for Ruby V2](#)

Source

sourceArn

The ARN of the source.

Type: string
Required: True

name

The name of the source.

Type: string
Required: True

description

A description of the source. This description is not visible outside of the current AWS account.

Type: string
Required: False

entitlementArn

The ARN of the entitlement that allows you to subscribe to content that comes from another AWS account. The entitlement is set by the content originator and the ARN is generated as part of the originator's flow.

Type: string
Required: False

ingestIp

The IP address that the flow listens on for incoming content.

Type: string
Required: False

transport

Attributes that are related to the transport stream.

Type: [Transport \(p. 83\)](#)

Required: False

decryption

The type of encryption that is used on the content ingested from the source.

Type: [Encryption \(p. 81\)](#)

Required: False

ingestPort

The port that the flow listens on for incoming content. If the protocol of the source is Zixi, the port must be set to 2088.

Type: integer

Required: False

whitelistCidr

The range of IP addresses that are allowed to contribute content to your source. Use the form of a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16.

Type: string

Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Transport

protocol

The protocol that is used by the source or output.

Type: string

Required: True

Values: zixi-push | rtp-fec | rtp

streamId

The stream ID that you want to use for the transport. This parameter applies only to Zixi-based streams.

Type: string

Required: False

maxLatency

The maximum latency in milliseconds for Zixi-based streams.

Type: integer
Required: False
Format: int64

maxBitrate

The smoothing max bitrate for RTP and RTP-FEC streams.

Type: integer
Required: False
Format: int64

smoothingLatency

The smoothing latency in milliseconds for RTP and RTP-FEC streams.

Type: integer
Required: False
Format: int64

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateEncryption

roleArn

The ARN of the role that you created during setup (when you set up AWS Elemental MediaConnect as a trusted entity).

Type: string
Required: False

secretArn

The ARN of the secret that you created in AWS Secrets Manager to store the encryption key.

Type: string
Required: False

keyType

The type of key that is used for the encryption. If you don't specify a `keyType` value, the service uses the default setting (`static-key`).

Type: string
Required: False
Values: static-key

algorithm

The type of algorithm that is used for the encryption (such as aes128, aes192, or aes256).

Type: string
Required: False
Values: aes128 | aes192 | aes256

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateFlowSourceRequest

protocol

The protocol that the source uses to deliver the content to AWS Elemental MediaConnect.

Type: string
Required: False
Values: zixi-push | rtp-fec | rtp

streamId

The stream ID that you want to use for the transport. This parameter applies only to Zixi-based streams.

Type: string
Required: False

maxLatency

The maximum latency in milliseconds for Zixi-based streams.

Type: integer
Required: False
Format: int64

description

A description of the source. This description is not visible outside of the current AWS account.

Type: string
Required: False

maxBitrate

The smoothing max bitrate for RTP and RTP-FEC streams.

Type: integer
Required: False
Format: int64

entitlementArn

The ARN of the entitlement that allows you to subscribe to the flow. The entitlement is set by the content originator, and the ARN is generated as part of the originator's flow.

Type: string
Required: False

decryption

The type of encryption that is used on the content ingested from the source.

Type: [UpdateEncryption \(p. 84\)](#)
Required: False

ingestPort

The port that the flow listens on for incoming content. If the protocol of the source is Zixi, the port must be set to 2088.

Type: integer
Required: False

whitelistCidr

The range of IP addresses that are allowed to contribute content to your source. Use the form of a Classless Inter-Domain Routing (CIDR) block; for example, 10.0.0.0/16.

Type: string
Required: False

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

UpdateFlowSourceResponse

flowArn

The ARN of the flow that you want to update.

Type: string

Required: True

source

The settings for the source of the flow.

Type: [Source \(p. 82\)](#)

Required: True

See Also

- [AWS SDK for C++](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Document History for API Reference

The following table describes important changes to this documentation.

Change	Description	Date
Tagging	Added support for tagging, untagging, and listing tags for existing AWS Elemental MediaConnect resources.	February 4, 2019
New service and guide	This is the initial release of the media ingest and transport service, AWS Elemental MediaConnect, and the AWS Elemental MediaConnect API Reference.	November 27, 2018

AWS Glossary

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