



API Reference

# AWS Clean Rooms ML



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# AWS Clean Rooms ML: API Reference

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# Welcome

Welcome to the *AWS Clean Rooms ML API Reference*.

AWS Clean Rooms ML provides a privacy-enhancing method for two parties to identify similar users in their data without the need to share their data with each other. The first party brings the training data to AWS Clean Rooms so that they can create and configure an audience model (lookalike model) and associate it with a collaboration. The second party then brings their seed data to AWS Clean Rooms and generates an audience (lookalike segment) that resembles the training data.

To learn more about AWS Clean Rooms ML concepts, procedures, and best practices, see the [AWS Clean Rooms User Guide](#).

To learn more about SQL commands, functions, and conditions supported in AWS Clean Rooms, see the [AWS Clean Rooms SQL Reference](#).

This document was last published on April 10, 2026.

# Actions

The following actions are supported:

- [CancelTrainedModel](#)
- [CancelTrainedModelInferenceJob](#)
- [CreateAudienceModel](#)
- [CreateConfiguredAudienceModel](#)
- [CreateConfiguredModelAlgorithm](#)
- [CreateConfiguredModelAlgorithmAssociation](#)
- [CreateMLInputChannel](#)
- [CreateTrainedModel](#)
- [CreateTrainingDataset](#)
- [DeleteAudienceGenerationJob](#)
- [DeleteAudienceModel](#)
- [DeleteConfiguredAudienceModel](#)
- [DeleteConfiguredAudienceModelPolicy](#)
- [DeleteConfiguredModelAlgorithm](#)
- [DeleteConfiguredModelAlgorithmAssociation](#)
- [DeleteMLConfiguration](#)
- [DeleteMLInputChannelData](#)
- [DeleteTrainedModelOutput](#)
- [DeleteTrainingDataset](#)
- [GetAudienceGenerationJob](#)
- [GetAudienceModel](#)
- [GetCollaborationConfiguredModelAlgorithmAssociation](#)
- [GetCollaborationMLInputChannel](#)
- [GetCollaborationTrainedModel](#)
- [GetConfiguredAudienceModel](#)
- [GetConfiguredAudienceModelPolicy](#)
- [GetConfiguredModelAlgorithm](#)

- [GetConfiguredModelAlgorithmAssociation](#)
- [GetMLConfiguration](#)
- [GetMLInputChannel](#)
- [GetTrainedModel](#)
- [GetTrainedModelInferenceJob](#)
- [GetTrainingDataset](#)
- [ListAudienceExportJobs](#)
- [ListAudienceGenerationJobs](#)
- [ListAudienceModels](#)
- [ListCollaborationConfiguredModelAlgorithmAssociations](#)
- [ListCollaborationMLInputChannels](#)
- [ListCollaborationTrainedModelExportJobs](#)
- [ListCollaborationTrainedModelInferenceJobs](#)
- [ListCollaborationTrainedModels](#)
- [ListConfiguredAudienceModels](#)
- [ListConfiguredModelAlgorithmAssociations](#)
- [ListConfiguredModelAlgorithms](#)
- [ListMLInputChannels](#)
- [ListTagsForResource](#)
- [ListTrainedModelInferenceJobs](#)
- [ListTrainedModels](#)
- [ListTrainedModelVersions](#)
- [ListTrainingDatasets](#)
- [PutConfiguredAudienceModelPolicy](#)
- [PutMLConfiguration](#)
- [StartAudienceExportJob](#)
- [StartAudienceGenerationJob](#)
- [StartTrainedModelExportJob](#)
- [StartTrainedModelInferenceJob](#)
- [TagResource](#)

- [UntagResource](#)
- [UpdateConfiguredAudienceModel](#)

# CancelTrainedModel

Submits a request to cancel the trained model job.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/trained-models/trainedModelArn?  
versionIdentifier=versionIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the trained model job that you want to cancel.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### trainedModelArn

The Amazon Resource Name (ARN) of the trained model job that you want to cancel.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/  
[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-  
model/[-a-zA-Z0-9_/.]+`

Required: Yes

### versionIdentifier

The version identifier of the trained model to cancel. This parameter allows you to specify which version of the trained model you want to cancel when multiple versions exist.

If `versionIdentifier` is not specified, the base model will be cancelled.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# CancelTrainedModelInferenceJob

Submits a request to cancel a trained model inference job.

## Request Syntax

```
PATCH /memberships/membershipIdentifier/trained-model-inference-jobs/trainedModelInferenceJobArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the trained model inference job that you want to cancel.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### trainedModelInferenceJobArn

The Amazon Resource Name (ARN) of the trained model inference job that you want to cancel.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

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

# CreateAudienceModel

Defines the information necessary to create an audience model. An audience model is a machine learning model that Clean Rooms ML trains to measure similarity between users. Clean Rooms ML manages training and storing the audience model. The audience model can be used in multiple calls to the [StartAudienceGenerationJob](#) API.

## Request Syntax

```
POST /audience-model HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "kmsKeyArn": "string",
  "name": "string",
  "tags": {
    "string" : "string"
  },
  "trainingDataEndTime": "string",
  "trainingDatasetArn": "string",
  "trainingDataStartTime": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [description](#)

The description of the audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the trained ML model and the associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

Required: No

### name

The name of the audience model resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.

- Do not use `aws;`, `AWS;`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

### [trainingDataEndTime](#)

The end date and time of the training window.

Type: Timestamp

Required: No

### [trainingDatasetArn](#)

The Amazon Resource Name (ARN) of the training dataset for this audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

Required: Yes

### [trainingDataStartTime](#)

The start date and time of the training window.

Type: Timestamp

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "audienceModelArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [audienceModelArn](#)

The Amazon Resource Name (ARN) of the audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# CreateConfiguredAudienceModel

Defines the information necessary to create a configured audience model.

## Request Syntax

```
POST /configured-audience-model HTTP/1.1
Content-type: application/json

{
  "audienceModelArn": "string",
  "audienceSizeConfig": {
    "audienceSizeBins": [ number ],
    "audienceSizeType": "string"
  },
  "childResourceTagOnCreatePolicy": "string",
  "description": "string",
  "minMatchingSeedSize": number,
  "name": "string",
  "outputConfig": {
    "destination": {
      "s3Destination": {
        "s3Uri": "string"
      }
    },
    "roleArn": "string"
  },
  "sharedAudienceMetrics": [ "string" ],
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## audienceModelArn

The Amazon Resource Name (ARN) of the audience model to use for the configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## audienceSizeConfig

Configure the list of output sizes of audiences that can be created using this configured audience model. A request to [StartAudienceGenerationJob](#) that uses this configured audience model must have an `audienceSize` selected from this list. You can use the [ABSOLUTE AudienceSize](#) to configure out audience sizes using the count of identifiers in the output. You can use the [Percentage AudienceSize](#) to configure sizes in the range 1-100 percent.

Type: [AudienceSizeConfig](#) object

Required: No

## childResourceTagOnCreatePolicy

Configure how the service tags audience generation jobs created using this configured audience model. If you specify `NONE`, the tags from the [StartAudienceGenerationJob](#) request determine the tags of the audience generation job. If you specify `FROM_PARENT_RESOURCE`, the audience generation job inherits the tags from the configured audience model, by default. Tags in the [StartAudienceGenerationJob](#) will override the default.

When the client is in a different account than the configured audience model, the tags from the client are never applied to a resource in the caller's account.

Type: String

Valid Values: `FROM_PARENT_RESOURCE` | `NONE`

Required: No

## description

The description of the configured audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## minMatchingSeedSize

The minimum number of users from the seed audience that must match with users in the training data of the audience model. The default value is 500.

Type: Integer

Valid Range: Minimum value of 25. Maximum value of 500000.

Required: No

## name

The name of the configured audience model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## outputConfig

Configure the Amazon S3 location and IAM Role for audiences created using this configured audience model. Each audience will have a unique location. The IAM Role must have `s3:PutObject` permission on the destination Amazon S3 location. If the destination is protected with Amazon S3 KMS-SSE, then the Role must also have the required AWS KMS permissions.

Type: [ConfiguredAudienceModelOutputConfig](#) object

Required: Yes

### sharedAudienceMetrics

Whether audience metrics are shared.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: ALL | NONE

Required: Yes

### tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredAudienceModelArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

You have exceeded your service quota.

HTTP Status Code: 402

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## **See Also**

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

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

# CreateConfiguredModelAlgorithm

Creates a configured model algorithm using a container image stored in an ECR repository.

## Request Syntax

```
POST /configured-model-algorithms HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "description": "string",
  "inferenceContainerConfig": {
    "imageUri": "string"
  },
  "kmsKeyArn": "string",
  "name": "string",
  "roleArn": "string",
  "tags": {
    "string" : "string"
  },
  "trainingContainerConfig": {
    "arguments": [ "string" ],
    "entrypoint": [ "string" ],
    "imageUri": "string",
    "metricDefinitions": [
      {
        "name": "string",
        "regex": "string"
      }
    ]
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## description

The description of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## inferenceContainerConfig

Configuration information for the inference container that is used when you run an inference job on a configured model algorithm.

Type: [InferenceContainerConfig](#) object

Required: No

## kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the configured ML model algorithm and associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

Required: No

## name

The name of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## roleArn

The Amazon Resource Name (ARN) of the role that is used to access the repository.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam:[0-9]{12}:role/.+`

Required: Yes

## tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use `aws:`, `AWS:`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## [trainingContainerConfig](#)

Configuration information for the training container, including entrypoints and arguments.

Type: [ContainerConfig](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredModelAlgorithmArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredModelAlgorithmArn](#)

The Amazon Resource Name (ARN) of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### [AccessDeniedException](#)

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### **ServiceQuotaExceededException**

You have exceeded your service quota.

HTTP Status Code: 402

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## **See Also**

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

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

# CreateConfiguredModelAlgorithmAssociation

Associates a configured model algorithm to a collaboration for use by any member of the collaboration.

## Request Syntax

POST /memberships/*membershipIdentifier*/configured-model-algorithm-associations HTTP/1.1  
Content-type: application/json

```
{
  "configuredModelAlgorithmArn": "string",
  "description": "string",
  "name": "string",
  "privacyConfiguration": {
    "policies": {
      "trainedModelExports": {
        "filesToExport": [ "string" ],
        "maxSize": {
          "unit": "string",
          "value": number
        }
      }
    },
    "trainedModelInferenceJobs": {
      "containerLogs": [
        {
          "allowedAccountIds": [ "string" ],
          "filterPattern": "string",
          "logRedactionConfiguration": {
            "customEntityConfig": {
              "customDataIdentifiers": [ "string" ]
            },
            "entitiesToRedact": [ "string" ]
          },
          "logType": "string"
        }
      ],
      "maxOutputSize": {
        "unit": "string",
        "value": number
      }
    },
    "trainedModels": {
```

```
    "containerLogs": [
      {
        "allowedAccountIds": [ "string" ],
        "filterPattern": "string",
        "logRedactionConfiguration": {
          "customEntityConfig": {
            "customDataIdentifiers": [ "string" ]
          },
          "entitiesToRedact": [ "string" ]
        },
        "logType": "string"
      }
    ],
    "containerMetrics": {
      "noiseLevel": "string"
    },
    "maxArtifactSize": {
      "unit": "string",
      "value": number
    }
  }
},
"tags": {
  "string" : "string"
}
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the member who is associating this configured model algorithm.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm that you want to associate.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

### description

The description of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### name

The name of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

### privacyConfiguration

Specifies the privacy configuration information for the configured model algorithm association. This information includes the maximum data size that can be exported.

Type: [PrivacyConfiguration](#) object

Required: No

## [tags](#)

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use `aws:`, `AWS:`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{  
  "configuredModelAlgorithmAssociationArn": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

## ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# CreateMLInputChannel

Provides the information to create an ML input channel. An ML input channel is the result of a query that can be used for ML modeling.

## Request Syntax

```
POST /memberships/membershipIdentifier/ml-input-channels HTTP/1.1
Content-type: application/json
```

```
{
  "configuredModelAlgorithmAssociations": [ "string" ],
  "description": "string",
  "inputChannel": {
    "dataSource": { ... },
    "roleArn": "string"
  },
  "kmsKeyArn": "string",
  "name": "string",
  "retentionInDays": number,
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the member that is creating the ML input channel.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## configuredModelAlgorithmAssociations

The associated configured model algorithms that are necessary to create this ML input channel.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

## description

The description of the ML input channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## inputChannel

The input data that is used to create this ML input channel.

Type: [InputChannel](#) object

Required: Yes

## kmsKeyArn

The Amazon Resource Name (ARN) of the KMS key that is used to access the input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

Required: No

## name

The name of the ML input channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## retentionInDays

The number of days that the data in the ML input channel is retained.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 30.

Required: Yes

## tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use `aws;`, `AWS;`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "mlInputChannelArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [mlInputChannelArn](#)

The Amazon Resource Name (ARN) of the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ConflictException**

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

## **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

You have exceeded your service quota.

HTTP Status Code: 402

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## **See Also**

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

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

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

# CreateTrainedModel

Creates a trained model from an associated configured model algorithm using data from any member of the collaboration.

## Request Syntax

```
POST /memberships/membershipIdentifier/trained-models HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "configuredModelAlgorithmAssociationArn": "string",
  "dataChannels": [
    {
      "channelName": "string",
      "mlInputChannelArn": "string",
      "s3DataDistributionType": "string"
    }
  ],
  "description": "string",
  "environment": {
    "string" : "string"
  },
  "hyperparameters": {
    "string" : "string"
  },
  "incrementalTrainingDataChannels": [
    {
      "channelName": "string",
      "trainedModelArn": "string",
      "versionIdentifier": "string"
    }
  ],
  "kmsKeyArn": "string",
  "name": "string",
  "resourceConfig": {
    "instanceCount": number,
    "instanceType": "string",
    "volumeSizeInGB": number
  },
  "stoppingCondition": {
    "maxRuntimeInSeconds": number
  },
}
```

```
"tags": {  
  "string" : "string"  
},  
"trainingInputMode": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the member that is creating the trained model.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### configuredModelAlgorithmAssociationArn

The associated configured model algorithm used to train this model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

### dataChannels

Defines the data channels that are used as input for the trained model request.

**Limit:** Maximum of 20 channels total (including both `dataChannels` and `incrementalTrainingDataChannels`).

**Type:** Array of [ModelTrainingDataChannel](#) objects

**Array Members:** Minimum number of 1 item. Maximum number of 20 items.

**Required:** Yes

### [description](#)

The description of the trained model.

**Type:** String

**Length Constraints:** Minimum length of 0. Maximum length of 255.

**Pattern:** `[\u0020-\u007F\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

**Required:** No

### [environment](#)

The environment variables to set in the Docker container.

**Type:** String to string map

**Map Entries:** Minimum number of 0 items. Maximum number of 100 items.

**Key Length Constraints:** Minimum length of 1. Maximum length of 512.

**Key Pattern:** `[a-zA-Z_][a-zA-Z0-9_]*`

**Value Length Constraints:** Minimum length of 1. Maximum length of 512.

**Value Pattern:** `[\S\s]*`

**Required:** No

### [hyperparameters](#)

Algorithm-specific parameters that influence the quality of the model. You set hyperparameters before you start the learning process.

**Type:** String to string map

**Map Entries:** Minimum number of 0 items. Maximum number of 100 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: . \*

Value Length Constraints: Minimum length of 1. Maximum length of 2500.

Value Pattern: . \*

Required: No

### incrementalTrainingDataChannels

Specifies the incremental training data channels for the trained model.

Incremental training allows you to create a new trained model with updates without retraining from scratch. You can specify up to one incremental training data channel that references a previously trained model and its version.

Limit: Maximum of 20 channels total (including both `incrementalTrainingDataChannels` and `dataChannels`).

Type: Array of [IncrementalTrainingDataChannel](#) objects

Array Members: Fixed number of 1 item.

Required: No

### kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the trained ML model and the associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

Required: No

### name

The name of the trained model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### resourceConfig

Information about the EC2 resources that are used to train this model.

Type: [ResourceConfig](#) object

Required: Yes

### stoppingCondition

The criteria that is used to stop model training.

Type: [StoppingCondition](#) object

Required: No

### tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use `aws;`, `AWS;`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

### [trainingInputMode](#)

The input mode for accessing the training data. This parameter determines how the training data is made available to the training algorithm. Valid values are:

- `File` - The training data is downloaded to the training instance and made available as files.
- `FastFile` - The training data is streamed directly from Amazon S3 to the training algorithm, providing faster access for large datasets.
- `Pipe` - The training data is streamed to the training algorithm using named pipes, which can improve performance for certain algorithms.

Type: String

Valid Values: `File` | `FastFile` | `Pipe`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "trainedModelArn": "string",
  "versionIdentifier": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### trainedModelArn

The Amazon Resource Name (ARN) of the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

### versionIdentifier

The unique version identifier assigned to the newly created trained model. This identifier can be used to reference this specific version of the trained model in subsequent operations such as inference jobs or incremental training.

The initial version identifier for the base version of the trained model is "NULL".

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

## InternalServerErrorException

An internal service error occurred. Retry your request. If the problem persists, contact AWS Support.

HTTP Status Code: 500

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# CreateTrainingDataset

Defines the information necessary to create a training dataset. In Clean Rooms ML, the `TrainingDataset` is metadata that points to a Glue table, which is read only during `AudienceModel` creation.

## Request Syntax

```
POST /training-dataset HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "name": "string",
  "roleArn": "string",
  "tags": {
    "string" : "string"
  },
  "trainingData": [
    {
      "inputConfig": {
        "dataSource": {
          "glueDataSource": {
            "catalogId": "string",
            "databaseName": "string",
            "tableName": "string"
          }
        },
        "schema": [
          {
            "columnName": "string",
            "columnTypes": [ "string" ]
          }
        ]
      },
      "type": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### description

The description of the training dataset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### name

The name of the training dataset. This name must be unique in your account and region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

### roleArn

The ARN of the IAM role that Clean Rooms ML can assume to read the data referred to in the `dataSource` field of each dataset.

Passing a role across AWS accounts is not allowed. If you pass a role that isn't in your account, you get an `AccessDeniedException` error.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam:[0-9]{12}:role/.+`

Required: Yes

## tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use `aws:`, `AWS:`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## trainingData

An array of information that lists the Dataset objects, which specifies the dataset type and details on its location and schema. You must provide a role that has read access to these tables.

Type: Array of [Dataset](#) objects

Array Members: Fixed number of 1 item.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "trainingDatasetArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [trainingDatasetArn](#)

The Amazon Resource Name (ARN) of the training dataset resource.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# DeleteAudienceGenerationJob

Deletes the specified audience generation job, and removes all data associated with the job.

## Request Syntax

```
DELETE /audience-generation-job/audienceGenerationJobArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# DeleteAudienceModel

Specifies an audience model that you want to delete. You can't delete an audience model if there are any configured audience models that depend on the audience model.

## Request Syntax

```
DELETE /audience-model/audienceModelArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### audienceModelArn

The Amazon Resource Name (ARN) of the audience model that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# DeleteConfiguredAudienceModel

Deletes the specified configured audience model. You can't delete a configured audience model if there are any lookalike models that use the configured audience model. If you delete a configured audience model, it will be removed from any collaborations that it is associated to.

## Request Syntax

```
DELETE /configured-audience-model/configuredAudienceModelArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# DeleteConfiguredAudienceModelPolicy

Deletes the specified configured audience model policy.

## Request Syntax

```
DELETE /configured-audience-model/configuredAudienceModelArn/policy HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model policy that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# DeleteConfiguredModelAlgorithm

Deletes a configured model algorithm.

## Request Syntax

```
DELETE /configured-model-algorithms/configuredModelAlgorithmArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [configuredModelAlgorithmArn](#)

The Amazon Resource Name (ARN) of the configured model algorithm that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# DeleteConfiguredModelAlgorithmAssociation

Deletes a configured model algorithm association.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/configured-model-algorithm-associations/configuredModelAlgorithmAssociationArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [configuredModelAlgorithmAssociationArn](#)

The Amazon Resource Name (ARN) of the configured model algorithm association that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

### [membershipIdentifier](#)

The membership ID of the member that is deleting the configured model algorithm association.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

# Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# DeleteMLConfiguration

Deletes a ML modeling configuration.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/ml-configurations HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the of the member that is deleting the ML modeling configuration.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# DeleteMLInputChannelData

Provides the information necessary to delete an ML input channel.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/ml-input-channels/mlInputChannelArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the membership that contains the ML input channel you want to delete.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

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

# DeleteTrainedModelOutput

Deletes the model artifacts stored by the service.

## Request Syntax

```
DELETE /memberships/membershipIdentifier/trained-models/trainedModelArn?  
versionIdentifier=versionIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the member that is deleting the trained model output.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### trainedModelArn

The Amazon Resource Name (ARN) of the trained model whose output you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/  
[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-  
model/[-a-zA-Z0-9_/.]+`

Required: Yes

### versionIdentifier

The version identifier of the trained model to delete. If not specified, the operation will delete the base version of the trained model. When specified, only the particular version will be deleted.

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# DeleteTrainingDataset

Specifies a training dataset that you want to delete. You can't delete a training dataset if there are any audience models that depend on the training dataset. In Clean Rooms ML, the `TrainingDataset` is metadata that points to a Glue table, which is read only during `AudienceModel` creation. This action deletes the metadata.

## Request Syntax

```
DELETE /training-dataset/trainingDatasetArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [trainingDatasetArn](#)

The Amazon Resource Name (ARN) of the training dataset that you want to delete.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# GetAudienceGenerationJob

Returns information about an audience generation job.

## Request Syntax

```
GET /audience-generation-job/audienceGenerationJobArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "audienceGenerationJobArn": "string",
  "collaborationId": "string",
  "configuredAudienceModelArn": "string",
  "createTime": "string",
  "description": "string",
  "includeSeedInOutput": boolean,
  "metrics": {
    "recallMetric": number,
```

```
  "relevanceMetrics": [
    {
      "audienceSize": {
        "type": "string",
        "value": number
      },
      "score": number
    }
  ],
  "name": "string",
  "protectedQueryIdentifier": "string",
  "seedAudience": {
    "dataSource": {
      "s3Uri": "string"
    },
    "roleArn": "string",
    "sqlComputeConfiguration": { ... },
    "sqlParameters": {
      "analysisTemplateArn": "string",
      "parameters": {
        "string" : "string"
      },
      "queryString": "string"
    }
  },
  "startedBy": "string",
  "status": "string",
  "statusDetails": {
    "message": "string",
    "statusCode": "string"
  },
  "tags": {
    "string" : "string"
  },
  "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

### collaborationId

The identifier of the collaboration that this audience generation job is associated with.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model used for this audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

### createTime

The time at which the audience generation job was created.

Type: Timestamp

### description

The description of the audience generation job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

### includeSeedInOutput

Configure whether the seed users are included in the output audience. By default, Clean Rooms ML removes seed users from the output audience. If you specify TRUE, the seed users will appear first in the output. Clean Rooms ML does not explicitly reveal whether a user was in the seed, but the recipient of the audience will know that the first `minimumSeedSize` count of users are from the seed.

Type: Boolean

### metrics

The relevance scores for different audience sizes and the recall score of the generated audience.

Type: [AudienceQualityMetrics](#) object

### name

The name of the audience generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

### protectedQueryIdentifier

The unique identifier of the protected query for this audience generation job.

Type: String

### seedAudience

The seed audience that was used for this audience generation job. This field will be null if the account calling the API is the account that started this audience generation job.

Type: [AudienceGenerationJobDataSource](#) object

### startedBy

The AWS account that started this audience generation job.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

### status

The status of the audience generation job.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED

### statusDetails

Details about the status of the audience generation job.

Type: [StatusDetails](#) object

### tags

The tags that are associated to this audience generation job.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### updateTime

The most recent time at which the audience generation job was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## **See Also**

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

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

# GetAudienceModel

Returns information about an audience model

## Request Syntax

```
GET /audience-model/audienceModelArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [audienceModelArn](#)

The Amazon Resource Name (ARN) of the audience model that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{  
  "audienceModelArn": "string",  
  "createTime": "string",  
  "description": "string",  
  "kmsKeyArn": "string",  
  "name": "string",  
  "status": "string",  
  "statusDetails": {
```

```
    "message": "string",
    "statusCode": "string"
  },
  "tags": {
    "string" : "string"
  },
  "trainingDataEndTime": "string",
  "trainingDatasetArn": "string",
  "trainingDataStartTime": "string",
  "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [audienceModelArn](#)

The Amazon Resource Name (ARN) of the audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

### [createTime](#)

The time at which the audience model was created.

Type: Timestamp

### [description](#)

The description of the audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\u007F\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

## kmsKeyArn

The KMS key ARN used for the audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

## name

The name of the audience model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

## status

The status of the audience model.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED`

## statusDetails

Details about the status of the audience model.

Type: [StatusDetails](#) object

## tags

The tags that are assigned to the audience model.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### trainingDataEndTime

The end date specified for the training window.

Type: Timestamp

### trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset that was used for this audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

### trainingDataStartTime

The start date specified for the training window.

Type: Timestamp

### updateTime

The most recent time at which the audience model was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# GetCollaborationConfiguredModelAlgorithmAssociation

Returns information about the configured model algorithm association in a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/configured-model-algorithm-associations/configuredModelAlgorithmAssociationArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The collaboration ID for the collaboration that contains the configured model algorithm association that you want to return information about.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that you want to return information about.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "collaborationIdentifier": "string",
  "configuredModelAlgorithmArn": "string",
  "configuredModelAlgorithmAssociationArn": "string",
  "createTime": "string",
  "creatorAccountId": "string",
  "description": "string",
  "membershipIdentifier": "string",
  "name": "string",
  "privacyConfiguration": {
    "policies": {
      "trainedModelExports": {
        "filesToExport": [ "string" ],
        "maxSize": {
          "unit": "string",
          "value": number
        }
      }
    },
    "trainedModelInferenceJobs": {
      "containerLogs": [
        {
          "allowedAccountIds": [ "string" ],
          "filterPattern": "string",
          "logRedactionConfiguration": {
            "customEntityConfig": {
              "customDataIdentifiers": [ "string" ]
            },
            "entitiesToRedact": [ "string" ]
          },
          "logType": "string"
        }
      ],
      "maxOutputSize": {
        "unit": "string",
        "value": number
      }
    },
    "trainedModels": {
```

```
    "containerLogs": [
      {
        "allowedAccountIds": [ "string" ],
        "filterPattern": "string",
        "logRedactionConfiguration": {
          "customEntityConfig": {
            "customDataIdentifiers": [ "string" ]
          },
          "entitiesToRedact": [ "string" ]
        },
        "logType": "string"
      }
    ],
    "containerMetrics": {
      "noiseLevel": "string"
    },
    "maxArtifactSize": {
      "unit": "string",
      "value": number
    }
  }
},
"updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

### configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

### configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

### createTime

The time at which the configured model algorithm association was created.

Type: Timestamp

### creatorAccountId

The account ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

### description

The description of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

### membershipIdentifier

The membership ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### name

The name of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

### privacyConfiguration

Information about the privacy configuration for a configured model algorithm association.

Type: [PrivacyConfiguration](#) object

### updateTime

The most recent time at which the configured model algorithm association was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## **See Also**

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

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

# GetCollaborationMLInputChannel

Returns information about a specific ML input channel in a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/ml-input-channels/mlInputChannelArn
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the ML input channel that you want to get.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel that you want to get.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "collaborationIdentifier": "string",
  "configuredModelAlgorithmAssociations": [ "string" ],
  "createTime": "string",
  "creatorAccountId": "string",
  "description": "string",
  "membershipIdentifier": "string",
  "mlInputChannelArn": "string",
  "name": "string",
  "numberOfRecords": number,
  "privacyBudgets": { ... },
  "retentionInDays": number,
  "status": "string",
  "statusDetails": {
    "message": "string",
    "statusCode": "string"
  },
  "syntheticDataConfiguration": {
    "syntheticDataEvaluationScores": {
      "dataPrivacyScores": {
        "membershipInferenceAttackScores": [
          {
            "attackVersion": "string",
            "score": number
          }
        ]
      }
    }
  },
  "syntheticDataParameters": {
    "columnClassification": {
      "columnMapping": [
        {
          "columnName": "string",
          "columnType": "string",
          "isPredictiveValue": boolean
        }
      ]
    }
  }
},
```

```
    "epsilon": number,
    "maxMembershipInferenceAttackScore": number
  }
},
"updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### configuredModelAlgorithmAssociations

The configured model algorithm associations that were used to create the ML input channel.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

### createTime

The time at which the ML input channel was created.

Type: Timestamp

### creatorAccountId

The account ID of the member who created the ML input channel.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]{12}

### description

The description of the ML input channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: [\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]\*

### membershipIdentifier

The membership ID of the membership that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

### mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:aws[-a-z]\*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[ -a-zA-Z0-9\_/. ]+

### name

The name of the ML input channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

### numberOfRecords

The number of records in the ML input channel.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 10000000000.

### privacyBudgets

Returns the privacy budgets that control access to this Clean Rooms ML input channel. Use these budgets to monitor and limit resource consumption over specified time periods.

Type: [PrivacyBudgets](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### retentionInDays

The number of days to retain the data for the ML input channel.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 30.

### status

The status of the ML input channel.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED | INACTIVE

### statusDetails

Details about the status of a resource.

Type: [StatusDetails](#) object

### syntheticDataConfiguration

The synthetic data configuration for this ML input channel, including parameters for generating privacy-preserving synthetic data and evaluation scores for measuring the privacy of the generated data.

Type: [SyntheticDataConfiguration](#) object

### [updateTime](#)

The most recent time at which the ML input channel was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# GetCollaborationTrainedModel

Returns information about a trained model in a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/trained-models/trainedModelArn?  
versionIdentifier=versionIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The collaboration ID that contains the trained model that you want to return information about.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### trainedModelArn

The Amazon Resource Name (ARN) of the trained model that you want to return information about.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### versionIdentifier

The version identifier of the trained model to retrieve. If not specified, the operation returns information about the latest version of the trained model.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationIdentifier": "string",
  "configuredModelAlgorithmAssociationArn": "string",
  "createTime": "string",
  "creatorAccountId": "string",
  "description": "string",
  "incrementalTrainingDataChannels": [
    {
      "channelName": "string",
      "modelName": "string",
      "versionIdentifier": "string"
    }
  ],
  "logsStatus": "string",
  "logsStatusDetails": "string",
  "membershipIdentifier": "string",
  "metricsStatus": "string",
  "metricsStatusDetails": "string",
  "name": "string",
  "resourceConfig": {
    "instanceCount": number,
    "instanceType": "string",
    "volumeSizeInGB": number
  },
  "status": "string",
  "statusDetails": {
    "message": "string",
    "statusCode": "string"
  },
}
```

```
"stoppingCondition": {
  "maxRuntimeInSeconds": number
},
"trainedModelArn": "string",
"trainingContainerImageDigest": "string",
"trainingInputMode": "string",
"updateTime": "string",
"versionIdentifier": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationIdentifier](#)

The collaboration ID of the collaboration that contains the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### [configuredModelAlgorithmAssociationArn](#)

The Amazon Resource Name (ARN) of the configured model algorithm association that was used to create this trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

### [createTime](#)

The time at which the trained model was created.

Type: Timestamp

### creatorAccountId

The account ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]{12}

### description

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: [\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t\\r\\n]\*

### incrementalTrainingDataChannels

Information about the incremental training data channels used to create this version of the trained model. This includes details about the base model that was used for incremental training and the channel configuration.

Type: Array of [IncrementalTrainingDataChannelOutput](#) objects

Array Members: Fixed number of 1 item.

### logsStatus

Status information for the logs.

Type: String

Valid Values: PUBLISH\_SUCCEEDED | PUBLISH\_FAILED

### logsStatusDetails

Details about the status information for the logs.

Type: String

### membershipIdentifier

The membership ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### metricsStatus

The status of the model metrics.

Type: String

Valid Values: PUBLISH\_SUCCEEDED | PUBLISH\_FAILED

### metricsStatusDetails

Details about the status information for the model metrics.

Type: String

### name

The name of the trained model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

### resourceConfig

The EC2 resource configuration that was used to train this model.

Type: [ResourceConfig](#) object

### status

The status of the trained model.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE  
| DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED | INACTIVE |  
CANCEL\_PENDING | CANCEL\_IN\_PROGRESS | CANCEL\_FAILED

### statusDetails

Details about the status of a resource.

Type: [StatusDetails](#) object

### [stoppingCondition](#)

The stopping condition that determined when model training ended.

Type: [StoppingCondition](#) object

### [trainedModelArn](#)

The Amazon Resource Name (ARN) of the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

### [trainingContainerImageDigest](#)

Information about the training container image.

Type: String

### [trainingInputMode](#)

The input mode that was used for accessing the training data when this trained model was created. This indicates how the training data was made available to the training algorithm.

Type: String

Valid Values: File | FastFile | Pipe

### [updateTime](#)

The most recent time at which the trained model was updated.

Type: Timestamp

### [versionIdentifier](#)

The version identifier of the trained model. This unique identifier distinguishes this version from other versions of the same trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# GetConfiguredAudienceModel

Returns information about a specified configured audience model.

## Request Syntax

```
GET /configured-audience-model/configuredAudienceModelArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "audienceModelArn": "string",
  "audienceSizeConfig": {
    "audienceSizeBins": [ number ],
    "audienceSizeType": "string"
  },
  "childResourceTagOnCreatePolicy": "string",
  "configuredAudienceModelArn": "string",
```

```

    "createTime": "string",
    "description": "string",
    "minMatchingSeedSize": number,
    "name": "string",
    "outputConfig": {
      "destination": {
        "s3Destination": {
          "s3Uri": "string"
        }
      },
      "roleArn": "string"
    },
    "sharedAudienceMetrics": [ "string" ],
    "status": "string",
    "tags": {
      "string" : "string"
    },
    "updateTime": "string"
  }

```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### audienceModelArn

The Amazon Resource Name (ARN) of the audience model used for this configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

### audienceSizeConfig

The list of output sizes of audiences that can be created using this configured audience model. A request to [StartAudienceGenerationJob](#) that uses this configured audience model must have an audienceSize selected from this list. You can use the ABSOLUTE [AudienceSize](#) to configure

out audience sizes using the count of identifiers in the output. You can use the Percentage [AudienceSize](#) to configure sizes in the range 1-100 percent.

Type: [AudienceSizeConfig](#) object

### [childResourceTagOnCreatePolicy](#)

Provides the `childResourceTagOnCreatePolicy` that was used for this configured audience model.

Type: String

Valid Values: FROM\_PARENT\_RESOURCE | NONE

### [configuredAudienceModelArn](#)

The Amazon Resource Name (ARN) of the configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-m1:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

### [createTime](#)

The time at which the configured audience model was created.

Type: Timestamp

### [description](#)

The description of the configured audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

### [minMatchingSeedSize](#)

The minimum number of users from the seed audience that must match with users in the training data of the audience model.

Type: Integer

Valid Range: Minimum value of 25. Maximum value of 500000.

### name

The name of the configured audience model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]\*

### outputConfig

The output configuration of the configured audience model

Type: [ConfiguredAudienceModelOutputConfig](#) object

### sharedAudienceMetrics

Whether audience metrics are shared.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: ALL | NONE

### status

The status of the configured audience model.

Type: String

Valid Values: ACTIVE

### tags

The tags that are associated to this configured audience model.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### updateTime

The most recent time at which the configured audience model was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# GetConfiguredAudienceModelPolicy

Returns information about a configured audience model policy.

## Request Syntax

```
GET /configured-audience-model/configuredAudienceModelArn/policy HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredAudienceModelArn": "string",
  "configuredAudienceModelPolicy": "string",
  "policyHash": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredAudienceModelArn](#)

The Amazon Resource Name (ARN) of the configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

### [configuredAudienceModelPolicy](#)

The configured audience model policy. This is a JSON IAM resource policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

### [policyHash](#)

A cryptographic hash of the contents of the policy used to prevent unexpected concurrent modification of the policy.

Type: String

Length Constraints: Minimum length of 64. Maximum length of 128.

Pattern: `[0-9a-f]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# GetConfiguredModelAlgorithm

Returns information about a configured model algorithm.

## Request Syntax

```
GET /configured-model-algorithms/configuredModelAlgorithmArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [configuredModelAlgorithmArn](#)

The Amazon Resource Name (ARN) of the configured model algorithm that you want to return information about.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredModelAlgorithmArn": "string",
  "createTime": "string",
  "description": "string",
  "inferenceContainerConfig": {
    "imageUri": "string"
```

```
},
  "kmsKeyArn": "string",
  "name": "string",
  "roleArn": "string",
  "tags": {
    "string" : "string"
  },
  "trainingContainerConfig": {
    "arguments": [ "string" ],
    "entrypoint": [ "string" ],
    "imageUri": "string",
    "metricDefinitions": [
      {
        "name": "string",
        "regex": "string"
      }
    ]
  },
  "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

### createTime

The time at which the configured model algorithm was created.

Type: Timestamp

## description

The description of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

## inferenceContainerConfig

Configuration information for the inference container.

Type: [InferenceContainerConfig](#) object

## kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the configured ML model and associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

## name

The name of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

## roleArn

The Amazon Resource Name (ARN) of the service role that was used to create the configured model algorithm.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam:[0-9]{12}:role/.+`

## tags

The optional metadata that you applied to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use `aws:`, `AWS:`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## trainingContainerConfig

The configuration information of the training container for the configured model algorithm.

Type: [ContainerConfig](#) object

## updateTime

The most recent time at which the configured model algorithm was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# GetConfiguredModelAlgorithmAssociation

Returns information about a configured model algorithm association.

## Request Syntax

```
GET /memberships/membershipIdentifier/configured-model-algorithm-associations/configuredModelAlgorithmAssociationArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [configuredModelAlgorithmAssociationArn](#)

The Amazon Resource Name (ARN) of the configured model algorithm association that you want to return information about.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

### [membershipIdentifier](#)

The membership ID of the member that created the configured model algorithm association.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "collaborationIdentifier": "string",
  "configuredModelAlgorithmArn": "string",
  "configuredModelAlgorithmAssociationArn": "string",
  "createTime": "string",
  "description": "string",
  "membershipIdentifier": "string",
  "name": "string",
  "privacyConfiguration": {
    "policies": {
      "trainedModelExports": {
        "filesToExport": [ "string" ],
        "maxSize": {
          "unit": "string",
          "value": number
        }
      }
    },
    "trainedModelInferenceJobs": {
      "containerLogs": [
        {
          "allowedAccountIds": [ "string" ],
          "filterPattern": "string",
          "logRedactionConfiguration": {
            "customEntityConfig": {
              "customDataIdentifiers": [ "string" ]
            },
            "entitiesToRedact": [ "string" ]
          },
          "logType": "string"
        }
      ],
      "maxOutputSize": {
        "unit": "string",
        "value": number
      }
    },
    "trainedModels": {
      "containerLogs": [
```

```
    {
      "allowedAccountIds": [ "string" ],
      "filterPattern": "string",
      "logRedactionConfiguration": {
        "customEntityConfig": {
          "customDataIdentifiers": [ "string" ]
        },
        "entitiesToRedact": [ "string" ]
      },
      "logType": "string"
    }
  ],
  "containerMetrics": {
    "noiseLevel": "string"
  },
  "maxArtifactSize": {
    "unit": "string",
    "value": number
  }
}
},
"tags": {
  "string" : "string"
},
"updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

### configuredModelAlgorithmArn

The Amazon Resource Name (ARN) of the configured model algorithm that was associated to the collaboration.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

### configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

### createTime

The time at which the configured model algorithm association was created.

Type: Timestamp

### description

The description of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

### membershipIdentifier

The membership ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### name

The name of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

### privacyConfiguration

The privacy configuration information for the configured model algorithm association.

Type: [PrivacyConfiguration](#) object

### tags

The optional metadata that you applied to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use `aws:`, `AWS:`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### updateTime

The most recent time at which the configured model algorithm association was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# GetMLConfiguration

Returns information about a specific ML configuration.

## Request Syntax

```
GET /memberships/membershipIdentifier/ml-configurations HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the member that owns the ML configuration you want to return information about.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "createTime": "string",
  "defaultOutputLocation": {
    "destination": {
      "s3Destination": {
        "s3Uri": "string"
      }
    }
  },
}
```

```
    "roleArn": "string"  
  },  
  "membershipIdentifier": "string",  
  "updateTime": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### createTime

The time at which the ML configuration was created.

Type: Timestamp

### defaultOutputLocation

The Amazon S3 location where ML model output is stored.

Type: [MLOutputConfiguration](#) object

### membershipIdentifier

The membership ID of the member that owns the ML configuration you requested.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### updateTime

The most recent time at which the ML configuration was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# GetMLInputChannel

Returns information about an ML input channel.

## Request Syntax

```
GET /memberships/membershipIdentifier/ml-input-channels/mlInputChannelArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the membership that contains the ML input channel that you want to get.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel that you want to get.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "collaborationIdentifier": "string",
  "configuredModelAlgorithmAssociations": [ "string" ],
  "createTime": "string",
  "description": "string",
  "inputChannel": {
    "dataSource": { ... },
    "roleArn": "string"
  },
  "kmsKeyArn": "string",
  "membershipIdentifier": "string",
  "mlInputChannelArn": "string",
  "name": "string",
  "numberOfFiles": number,
  "numberOfRecords": number,
  "privacyBudgets": { ... },
  "protectedQueryIdentifier": "string",
  "retentionInDays": number,
  "sizeInGb": number,
  "status": "string",
  "statusDetails": {
    "message": "string",
    "statusCode": "string"
  },
  "syntheticDataConfiguration": {
    "syntheticDataEvaluationScores": {
      "dataPrivacyScores": {
        "membershipInferenceAttackScores": [
          {
            "attackVersion": "string",
            "score": number
          }
        ]
      }
    }
  },
  "syntheticDataParameters": {
    "columnClassification": {
      "columnMapping": [
        {
          "columnName": "string",
          "columnType": "string",
          "isPredictiveValue": boolean
        }
      ]
    }
  }
}
```

```
    }
  ]
},
  "epsilon": number,
  "maxMembershipInferenceAttackScore": number
}
},
"tags": {
  "string" : "string"
},
"updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### configuredModelAlgorithmAssociations

The configured model algorithm associations that were used to create the ML input channel.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

### createTime

The time at which the ML input channel was created.

Type: Timestamp

### description

The description of the ML input channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

### inputChannel

The input channel that was used to create the ML input channel.

Type: [InputChannel](#) object

### kmsKeyArn

The Amazon Resource Name (ARN) of the KMS key that was used to create the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

### membershipIdentifier

The membership ID of the membership that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

### name

The name of the ML input channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

### numberOfFiles

The number of files in the ML input channel.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 1000000.

### numberOfRecords

The number of records in the ML input channel.

Type: Long

Valid Range: Minimum value of 0. Maximum value of 100000000000.

### privacyBudgets

Returns the privacy budgets that control access to this Clean Rooms ML input channel. Use these budgets to monitor and limit resource consumption over specified time periods.

Type: [PrivacyBudgets](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

### protectedQueryIdentifier

The ID of the protected query that was used to create the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### retentionInDays

The number of days to keep the data in the ML input channel.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 30.

### sizeInGb

The size, in GB, of the ML input channel.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 1000000.

### status

The status of the ML input channel.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED | INACTIVE

### statusDetails

Details about the status of a resource.

Type: [StatusDetails](#) object

### syntheticDataConfiguration

The synthetic data configuration for this ML input channel, including parameters for generating privacy-preserving synthetic data and evaluation scores for measuring the privacy of the generated data.

Type: [SyntheticDataConfiguration](#) object

### tags

The optional metadata that you applied to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use `aws:`, `AWS:`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### updateTime

The most recent time at which the ML input channel was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# GetTrainedModel

Returns information about a trained model.

## Request Syntax

```
GET /memberships/membershipIdentifier/trained-models/trainedModelArn?  
versionIdentifier=versionIdentifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the member that created the trained model that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### trainedModelArn

The Amazon Resource Name (ARN) of the trained model that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/  
[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-  
model/[-a-zA-Z0-9_/.]+`

Required: Yes

### versionIdentifier

The version identifier of the trained model to retrieve. If not specified, the operation returns information about the latest version of the trained model.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "collaborationIdentifier": "string",
  "configuredModelAlgorithmAssociationArn": "string",
  "createTime": "string",
  "dataChannels": [
    {
      "channelName": "string",
      "mlInputChannelArn": "string",
      "s3DataDistributionType": "string"
    }
  ],
  "description": "string",
  "environment": {
    "string": "string"
  },
  "hyperparameters": {
    "string": "string"
  },
  "incrementalTrainingDataChannels": [
    {
      "channelName": "string",
      "modelName": "string",
      "versionIdentifier": "string"
    }
  ],
  "kmsKeyArn": "string",
  "logsStatus": "string",
  "logsStatusDetails": "string",
  "membershipIdentifier": "string",
  "metricsStatus": "string",
  "metricsStatusDetails": "string",
  "name": "string",
  "resourceConfig": {
    "instanceCount": number,

```

```
    "instanceType": "string",
    "volumeSizeInGB": number
  },
  "status": "string",
  "statusDetails": {
    "message": "string",
    "statusCode": "string"
  },
  "stoppingCondition": {
    "maxRuntimeInSeconds": number
  },
  "tags": {
    "string" : "string"
  },
  "trainedModelArn": "string",
  "trainingContainerImageDigest": "string",
  "trainingInputMode": "string",
  "updateTime": "string",
  "versionIdentifier": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

### configuredModelAlgorithmAssociationArn

The Amazon Resource Name (ARN) of the configured model algorithm association that was used to create the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

### createTime

The time at which the trained model was created.

Type: Timestamp

### dataChannels

The data channels that were used for the trained model.

Type: Array of [ModelTrainingDataChannel](#) objects

Array Members: Minimum number of 1 item. Maximum number of 20 items.

### description

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

### environment

The EC2 environment that was used to create the trained model.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Key Length Constraints: Minimum length of 1. Maximum length of 512.

Key Pattern: `[a-zA-Z_][a-zA-Z0-9_]*`

Value Length Constraints: Minimum length of 1. Maximum length of 512.

Value Pattern: `[\S\s]*`

## hyperparameters

The hyperparameters that were used to create the trained model.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 100 items.

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: .\*

Value Length Constraints: Minimum length of 1. Maximum length of 2500.

Value Pattern: .\*

## incrementalTrainingDataChannels

Information about the incremental training data channels used to create this version of the trained model. This includes details about the base model that was used for incremental training and the channel configuration.

Type: Array of [IncrementalTrainingDataChannelOutput](#) objects

Array Members: Fixed number of 1 item.

## kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the trained ML model and associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:aws[-a-z]\*:kms:[-a-z0-9]+:[0-9]{12}:key/.+

## logsStatus

The logs status for the trained model.

Type: String

Valid Values: PUBLISH\_SUCCEEDED | PUBLISH\_FAILED

## logsStatusDetails

Details about the logs status for the trained model.

Type: String

## membershipIdentifier

The membership ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## metricsStatus

The status of the model metrics.

Type: String

Valid Values: PUBLISH\_SUCCEEDED | PUBLISH\_FAILED

## metricsStatusDetails

Details about the metrics status for the trained model.

Type: String

## name

The name of the trained model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

## resourceConfig

The EC2 resource configuration that was used to create the trained model.

Type: [ResourceConfig](#) object

## status

The status of the trained model.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE  
| DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED | INACTIVE |  
CANCEL\_PENDING | CANCEL\_IN\_PROGRESS | CANCEL\_FAILED

### statusDetails

Details about the status of a resource.

Type: [StatusDetails](#) object

### stoppingCondition

The stopping condition that was used to terminate model training.

Type: [StoppingCondition](#) object

### tags

The optional metadata that you applied to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### trainedModelArn

The Amazon Resource Name (ARN) of the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

### trainingContainerImageDigest

Information about the training image container.

Type: String

### trainingInputMode

The input mode that was used for accessing the training data when this trained model was created. This indicates how the training data was made available to the training algorithm.

Type: String

Valid Values: File | FastFile | Pipe

### updateTime

The most recent time at which the trained model was updated.

Type: Timestamp

### versionIdentifier

The version identifier of the trained model. This unique identifier distinguishes this version from other versions of the same trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# GetTrainedModelInferenceJob

Returns information about a trained model inference job.

## Request Syntax

```
GET /memberships/membershipIdentifier/trained-model-inference-jobs/trainedModelInferenceJobArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

Provides the membership ID of the membership that contains the trained model inference job that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### trainedModelInferenceJobArn

Provides the Amazon Resource Name (ARN) of the trained model inference job that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "configuredModelAlgorithmAssociationArn": "string",
  "containerExecutionParameters": {
    "maxPayloadInMB": number
  },
  "createTime": "string",
  "dataSource": {
    "mlInputChannelArn": "string"
  },
  "description": "string",
  "environment": {
    "string" : "string"
  },
  "inferenceContainerImageDigest": "string",
  "kmsKeyArn": "string",
  "logsStatus": "string",
  "logsStatusDetails": "string",
  "membershipIdentifier": "string",
  "metricsStatus": "string",
  "metricsStatusDetails": "string",
  "name": "string",
  "outputConfiguration": {
    "accept": "string",
    "members": [
      {
        "accountId": "string"
      }
    ]
  },
  "resourceConfig": {
    "instanceCount": number,
    "instanceType": "string"
  },
  "status": "string",
  "statusDetails": {
    "message": "string",
    "statusCode": "string"
  },
}
```

```
"tags": {
  "string" : "string"
},
"trainedModelArn": "string",
"trainedModelInferenceJobArn": "string",
"trainedModelVersionIdentifier": "string",
"updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredModelAlgorithmAssociationArn](#)

The Amazon Resource Name (ARN) of the configured model algorithm association that was used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

### [containerExecutionParameters](#)

The execution parameters for the model inference job container.

Type: [InferenceContainerExecutionParameters](#) object

### [createTime](#)

The time at which the trained model inference job was created.

Type: Timestamp

### [dataSource](#)

The data source that was used for the trained model inference job.

Type: [ModelInferenceDataSource](#) object

## description

The description of the trained model inference job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

## environment

The environment variables to set in the Docker container.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 16 items.

Key Length Constraints: Minimum length of 1. Maximum length of 1024.

Key Pattern: `[a-zA-Z_][a-zA-Z0-9_]*`

Value Length Constraints: Minimum length of 1. Maximum length of 10240.

Value Pattern: `[\S\s]*`

## inferenceContainerImageDigest

Information about the training container image.

Type: String

## kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the ML inference job and associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

## logsStatus

The logs status for the trained model inference job.

Type: String

Valid Values: PUBLISH\_SUCCEEDED | PUBLISH\_FAILED

### logsStatusDetails

Details about the logs status for the trained model inference job.

Type: String

### membershipIdentifier

The membership ID of the membership that contains the trained model inference job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### metricsStatus

The metrics status for the trained model inference job.

Type: String

Valid Values: PUBLISH\_SUCCEEDED | PUBLISH\_FAILED

### metricsStatusDetails

Details about the metrics status for the trained model inference job.

Type: String

### name

The name of the trained model inference job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

### outputConfiguration

The output configuration information for the trained model inference job.

Type: [InferenceOutputConfiguration](#) object

### [resourceConfig](#)

The resource configuration information for the trained model inference job.

Type: [InferenceResourceConfig](#) object

### [status](#)

The status of the trained model inference job.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | CANCEL\_PENDING | CANCEL\_IN\_PROGRESS | CANCEL\_FAILED | INACTIVE

### [statusDetails](#)

Details about the status of a resource.

Type: [StatusDetails](#) object

### [tags](#)

The optional metadata that you applied to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use aws:, AWS:, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has aws as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of aws do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### trainedModelArn

The Amazon Resource Name (ARN) for the trained model that was used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

### trainedModelInferenceJobArn

The Amazon Resource Name (ARN) of the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

### trainedModelVersionIdentifier

The version identifier of the trained model used for this inference job. This identifies the specific version of the trained model that was used to generate the inference results.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## updateTime

The most recent time at which the trained model inference job was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# GetTrainingDataset

Returns information about a training dataset.

## Request Syntax

```
GET /training-dataset/trainingDatasetArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [trainingDatasetArn](#)

The Amazon Resource Name (ARN) of the training dataset that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "createTime": "string",
  "description": "string",
  "name": "string",
  "roleArn": "string",
  "status": "string",
  "tags": {
    "string" : "string"
  }
}
```

```
  },
  "trainingData": [
    {
      "inputConfig": {
        "dataSource": {
          "glueDataSource": {
            "catalogId": "string",
            "databaseName": "string",
            "tableName": "string"
          }
        },
        "schema": [
          {
            "columnName": "string",
            "columnTypes": [ "string" ]
          }
        ]
      },
      "type": "string"
    }
  ],
  "trainingDatasetArn": "string",
  "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### createTime

The time at which the training dataset was created.

Type: Timestamp

### description

The description of the training dataset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

### name

The name of the training dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

### roleArn

The IAM role used to read the training data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam:[0-9]{12}:role/.+`

### status

The status of the training dataset.

Type: String

Valid Values: ACTIVE

### tags

The tags that are assigned to this training dataset.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

### trainingData

Metadata about the requested training data.

Type: Array of [Dataset](#) objects

## trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

## updateTime

The most recent time at which the training dataset was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListAudienceExportJobs

Returns a list of the audience export jobs.

## Request Syntax

```
GET /audience-export-job?  
audienceGenerationJobArn=audienceGenerationJobArn&maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [audienceGenerationJobArn](#)

The Amazon Resource Name (ARN) of the audience generation job that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

### [maxResults](#)

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "audienceExportJobs": [
    {
      "audienceGenerationJobArn": "string",
      "audienceSize": {
        "type": "string",
        "value": number
      },
      "createTime": "string",
      "description": "string",
      "name": "string",
      "outputLocation": "string",
      "status": "string",
      "statusDetails": {
        "message": "string",
        "statusCode": "string"
      },
      "updateTime": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### audienceExportJobs

The audience export jobs that match the request.

Type: Array of [AudienceExportJobSummary](#) objects

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListAudienceGenerationJobs

Returns a list of audience generation jobs.

## Request Syntax

```
GET /audience-generation-job?  
collaborationId=collaborationId&configuredAudienceModelArn=configuredAudienceModelArn&maxResults=maxResults  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationId

The identifier of the collaboration that contains the audience generation jobs that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that was used for the audience generation jobs that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[ -a-zA-Z0-9_/. ]+`

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "audienceGenerationJobs": [
    {
      "audienceGenerationJobArn": "string",
      "collaborationId": "string",
      "configuredAudienceModelArn": "string",
      "createTime": "string",
      "description": "string",
      "name": "string",
      "startedBy": "string",
      "status": "string",
      "updateTime": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### audienceGenerationJobs

The audience generation jobs that match the request.

Type: Array of [AudienceGenerationJobSummary](#) objects

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListAudienceModels

Returns a list of audience models.

## Request Syntax

```
GET /audience-model?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "audienceModels": [
    {
      "audienceModelArn": "string",
      "createTime": "string",
      "description": "string",
      "name": "string",
```

```
    "status": "string",
    "trainingDatasetArn": "string",
    "updateTime": "string"
  }
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### audienceModels

The audience models that match the request.

Type: Array of [AudienceModelSummary](#) objects

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListCollaborationConfiguredModelAlgorithmAssociations

Returns a list of the configured model algorithm associations in a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/configured-model-algorithm-associations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the configured model algorithm associations that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "collaborationConfiguredModelAlgorithmAssociations": [
    {
      "collaborationIdentifier": "string",
      "configuredModelAlgorithmArn": "string",
      "configuredModelAlgorithmAssociationArn": "string",
      "createTime": "string",
      "creatorAccountId": "string",
      "description": "string",
      "membershipIdentifier": "string",
      "name": "string",
      "updateTime": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationConfiguredModelAlgorithmAssociations](#)

The configured model algorithm associations that belong to this collaboration.

Type: Array of [CollaborationConfiguredModelAlgorithmAssociationSummary](#) objects

### [nextToken](#)

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListCollaborationMLInputChannels

Returns a list of the ML input channels in a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/ml-input-channels?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the ML input channels that you want to list.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "collaborationMLInputChannelsList": [
    {
      "collaborationIdentifier": "string",
      "configuredModelAlgorithmAssociations": [ "string" ],
      "createTime": "string",
      "creatorAccountId": "string",
      "description": "string",
      "membershipIdentifier": "string",
      "mlInputChannelArn": "string",
      "name": "string",
      "status": "string",
      "updateTime": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationMLInputChannelsList

The list of ML input channels that you wanted.

Type: Array of [CollaborationMLInputChannelSummary](#) objects

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListCollaborationTrainedModelExportJobs

Returns a list of the export jobs for a trained model in a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/trained-models/trainedModelArn/export-jobs?  
maxResults=maxResults&nextToken=nextToken&trainedModelVersionIdentifier=trainedModelVersionIden  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model export jobs that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

### trainedModelArn

The Amazon Resource Name (ARN) of the trained model that was used to create the export jobs that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### trainedModelVersionIdentifier

The version identifier of the trained model to filter export jobs by. When specified, only export jobs for this specific version of the trained model are returned.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationTrainedModelExportJobs": [
    {
      "collaborationIdentifier": "string",
      "createTime": "string",
      "creatorAccountId": "string",
      "description": "string",
      "membershipIdentifier": "string",
      "name": "string",
      "outputConfiguration": {
        "members": [
          {
            "accountId": "string"
          }
        ]
      },
      "status": "string",
      "statusDetails": {
```

```
        "message": "string",
        "statusCode": "string"
    },
    "trainedModelArn": "string",
    "trainedModelVersionIdentifier": "string",
    "updateTime": "string"
}
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationTrainedModelExportJobs

The exports jobs that exist for the requested trained model in the requested collaboration.

Type: Array of [CollaborationTrainedModelExportJobSummary](#) objects

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListCollaborationTrainedModelInferenceJobs

Returns a list of trained model inference jobs in a specified collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/trained-model-inference-jobs?  
maxResults=maxResults&nextToken=nextToken&trainedModelArn=trainedModelArn&trainedModelVersionId=trainedModelVersionId  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the trained model inference jobs that you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

### trainedModelArn

The Amazon Resource Name (ARN) of the trained model that was used to create the trained model inference jobs that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

### trainedModelVersionIdentifier

The version identifier of the trained model to filter inference jobs by. When specified, only inference jobs that used this specific version of the trained model are returned.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "collaborationTrainedModelInferenceJobs": [
    {
      "collaborationIdentifier": "string",
      "configuredModelAlgorithmAssociationArn": "string",
      "createTime": "string",
      "creatorAccountId": "string",
      "description": "string",
      "logsStatus": "string",
      "logsStatusDetails": "string",
      "membershipIdentifier": "string",
      "metricsStatus": "string",
      "metricsStatusDetails": "string",
      "name": "string",
      "outputConfiguration": {
        "accept": "string",
        "members": [
          {
            "accountId": "string"
          }
        ]
      }
    }
  ]
}
```

```
    },
    "status": "string",
    "trainedModelArn": "string",
    "trainedModelInferenceJobArn": "string",
    "trainedModelVersionIdentifier": "string",
    "updateTime": "string"
  }
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### collaborationTrainedModelInferenceJobs

The trained model inference jobs that you are interested in.

Type: Array of [CollaborationTrainedModelInferenceJobSummary](#) objects

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListCollaborationTrainedModels

Returns a list of the trained models in a collaboration.

## Request Syntax

```
GET /collaborations/collaborationIdentifier/trained-models?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### collaborationIdentifier

The collaboration ID of the collaboration that contains the trained models you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "collaborationTrainedModels": [
    {
      "collaborationIdentifier": "string",
      "configuredModelAlgorithmAssociationArn": "string",
      "createTime": "string",
      "creatorAccountId": "string",
      "description": "string",
      "incrementalTrainingDataChannels": [
        {
          "channelName": "string",
          "modelName": "string",
          "versionIdentifier": "string"
        }
      ],
      "membershipIdentifier": "string",
      "name": "string",
      "status": "string",
      "trainedModelArn": "string",
      "updateTime": "string",
      "versionIdentifier": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [collaborationTrainedModels](#)

The trained models in the collaboration that you requested.

Type: Array of [CollaborationTrainedModelSummary](#) objects

### [nextToken](#)

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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



# ListConfiguredAudienceModels

Returns a list of the configured audience models.

## Request Syntax

```
GET /configured-audience-model?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredAudienceModels": [
    {
      "audienceModelArn": "string",
      "configuredAudienceModelArn": "string",
      "createTime": "string",
      "description": "string",
```

```
    "name": "string",
    "outputConfig": {
      "destination": {
        "s3Destination": {
          "s3Uri": "string"
        }
      },
      "roleArn": "string"
    },
    "status": "string",
    "updateTime": "string"
  }
],
"nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredAudienceModels

The configured audience models.

Type: Array of [ConfiguredAudienceModelSummary](#) objects

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListConfiguredModelAlgorithmAssociations

Returns a list of configured model algorithm associations.

## Request Syntax

```
GET /memberships/membershipIdentifier/configured-model-algorithm-associations?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### [membershipIdentifier](#)

The membership ID of the member that created the configured model algorithm associations you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "configuredModelAlgorithmAssociations": [
    {
      "collaborationIdentifier": "string",
      "configuredModelAlgorithmArn": "string",
      "configuredModelAlgorithmAssociationArn": "string",
      "createTime": "string",
      "description": "string",
      "membershipIdentifier": "string",
      "name": "string",
      "updateTime": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredModelAlgorithmAssociations

The list of configured model algorithm associations.

Type: Array of [ConfiguredModelAlgorithmAssociationSummary](#) objects

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListConfiguredModelAlgorithms

Returns a list of configured model algorithms.

## Request Syntax

```
GET /configured-model-algorithms?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredModelAlgorithms": [
    {
      "configuredModelAlgorithmArn": "string",
      "createTime": "string",
      "description": "string",
```

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

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredModelAlgorithms

The list of configured model algorithms.

Type: Array of [ConfiguredModelAlgorithmSummary](#) objects

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListMLInputChannels

Returns a list of ML input channels.

## Request Syntax

```
GET /memberships/membershipIdentifier/ml-input-channels?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [maxResults](#)

The maximum number of ML input channels to return.

Valid Range: Minimum value of 1. Maximum value of 100.

### [membershipIdentifier](#)

The membership ID of the membership that contains the ML input channels that you want to list.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### [nextToken](#)

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "mlInputChannelsList": [
    {
      "collaborationIdentifier": "string",
      "configuredModelAlgorithmAssociations": [ "string" ],
      "createTime": "string",
      "description": "string",
      "membershipIdentifier": "string",
      "mlInputChannelArn": "string",
      "name": "string",
      "protectedQueryIdentifier": "string",
      "status": "string",
      "updateTime": "string"
    }
  ],
  "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### mlInputChannelsList

The list of ML input channels that you wanted.

Type: Array of [MLInputChannelSummary](#) objects

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListTagsForResource

Returns a list of tags for a provided resource.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [resourceArn](#)

The Amazon Resource Name (ARN) of the resource that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:(membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12})/(configured-model-algorithm-association|trained-model|trained-model-inference-job|ml-input-channel)|training-dataset|audience-model|configured-audience-model|audience-generation-job|configured-model-algorithm)/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

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

```
}  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### tags

The tags that are associated with the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListTrainedModelInferenceJobs

Returns a list of trained model inference jobs that match the request parameters.

## Request Syntax

```
GET /memberships/membershipIdentifier/trained-model-inference-jobs?  
maxResults=maxResults&nextToken=nextToken&trainedModelArn=trainedModelArn&trainedModelVersionId=trainedModelVersionId  
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

The membership

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

### trainedModelArn

The Amazon Resource Name (ARN) of a trained model that was used to create the trained model inference jobs that you are interested in.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

### trainedModelVersionIdentifier

The version identifier of the trained model to filter inference jobs by. When specified, only inference jobs that used this specific version of the trained model are returned.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "trainedModelInferenceJobs": [
    {
      "collaborationIdentifier": "string",
      "configuredModelAlgorithmAssociationArn": "string",
      "createTime": "string",
      "description": "string",
      "logsStatus": "string",
      "logsStatusDetails": "string",
      "membershipIdentifier": "string",
      "metricsStatus": "string",
      "metricsStatusDetails": "string",
      "name": "string",
      "outputConfiguration": {
        "accept": "string",
        "members": [
          {
            "accountId": "string"
          }
        ]
      }
    }
  ]
}
```

```
    ]
  },
  "status": "string",
  "trainedModelArn": "string",
  "trainedModelInferenceJobArn": "string",
  "trainedModelVersionIdentifier": "string",
  "updateTime": "string"
}
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

### trainedModelInferenceJobs

Returns the requested trained model inference jobs.

Type: Array of [TrainedModelInferenceJobSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# ListTrainedModels

Returns a list of trained models.

## Request Syntax

```
GET /memberships/membershipIdentifier/trained-models?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

The membership ID of the member that created the trained models you are interested in.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "nextToken": "string",
  "trainedModels": [
    {
      "collaborationIdentifier": "string",
      "configuredModelAlgorithmAssociationArn": "string",
      "createTime": "string",
      "description": "string",
      "incrementalTrainingDataChannels": [
        {
          "channelName": "string",
          "modelName": "string",
          "versionIdentifier": "string"
        }
      ],
      "membershipIdentifier": "string",
      "name": "string",
      "status": "string",
      "trainedModelArn": "string",
      "updateTime": "string",
      "versionIdentifier": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

### trainedModels

The list of trained models.

Type: Array of [TrainedModelSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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



# ListTrainedModelVersions

Returns a list of trained model versions for a specified trained model. This operation allows you to view all versions of a trained model, including information about their status and creation details. You can use this to track the evolution of your trained models and select specific versions for inference or further training.

## Request Syntax

```
GET /memberships/membershipIdentifier/trained-models/trainedModelArn/versions?  
maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum number of trained model versions to return in a single page. The default value is 10, and the maximum value is 100.

Valid Range: Minimum value of 1. Maximum value of 100.

### membershipIdentifier

The membership identifier for the collaboration that contains the trained model.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### nextToken

The pagination token from a previous `ListTrainedModelVersions` request. Use this token to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

### status

Filter the results to only include trained model versions with the specified status. Valid values include `CREATE_PENDING`, `CREATE_IN_PROGRESS`, `ACTIVE`, `CREATE_FAILED`, and others.

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED | INACTIVE | CANCEL\_PENDING | CANCEL\_IN\_PROGRESS | CANCEL\_FAILED

### trainedModelArn

The Amazon Resource Name (ARN) of the trained model for which to list versions.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[ -a-zA-Z0-9_/. ]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "trainedModels": [
    {
      "collaborationIdentifier": "string",
      "configuredModelAlgorithmAssociationArn": "string",
      "createTime": "string",
      "description": "string",
      "incrementalTrainingDataChannels": [
        {
          "channelName": "string",
          "modelName": "string",
          "versionIdentifier": "string"
        }
      ],
      "membershipIdentifier": "string",
      "name": "string",
```

```
    "status": "string",
    "trainedModelArn": "string",
    "updateTime": "string",
    "versionIdentifier": "string"
  }
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The pagination token to use in a subsequent `ListTrainedModelVersions` request to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

### trainedModels

A list of trained model versions that match the specified criteria. Each entry contains summary information about a trained model version, including its version identifier, status, and creation details.

Type: Array of [TrainedModelSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## **See Also**

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

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

# ListTrainingDatasets

Returns a list of training datasets.

## Request Syntax

```
GET /training-dataset?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### maxResults

The maximum size of the results that is returned per call.

Valid Range: Minimum value of 1. Maximum value of 100.

### nextToken

The token value retrieved from a previous call to access the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10240.

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "trainingDatasets": [
    {
      "createTime": "string",
      "description": "string",
      "name": "string",
```

```
    "status": "string",
    "trainingDatasetArn": "string",
    "updateTime": "string"
  }
]
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### nextToken

The token value used to access the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

### trainingDatasets

The training datasets that match the request.

Type: Array of [TrainingDatasetSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# PutConfiguredAudienceModelPolicy

Create or update the resource policy for a configured audience model.

## Request Syntax

```
PUT /configured-audience-model/configuredAudienceModelArn/policy HTTP/1.1  
Content-type: application/json
```

```
{  
  "configuredAudienceModelPolicy": "string",  
  "policyExistenceCondition": "string",  
  "previousPolicyHash": "string"  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that the resource policy will govern.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### configuredAudienceModelPolicy

The IAM resource policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

Required: Yes

### [policyExistenceCondition](#)

Use this to prevent unexpected concurrent modification of the policy.

Type: String

Valid Values: POLICY\_MUST\_EXIST | POLICY\_MUST\_NOT\_EXIST

Required: No

### [previousPolicyHash](#)

A cryptographic hash of the contents of the policy used to prevent unexpected concurrent modification of the policy.

Type: String

Length Constraints: Minimum length of 64. Maximum length of 128.

Pattern: [0-9a-f]+

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredAudienceModelPolicy": "string",
  "policyHash": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [configuredAudienceModelPolicy](#)

The IAM resource policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20480.

### policyHash

A cryptographic hash of the contents of the policy used to prevent unexpected concurrent modification of the policy.

Type: String

Length Constraints: Minimum length of 64. Maximum length of 128.

Pattern: `[0-9a-f]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

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

# PutMLConfiguration

Assigns information about an ML configuration.

## Request Syntax

```
PUT /memberships/membershipIdentifier/ml-configurations HTTP/1.1  
Content-type: application/json
```

```
{  
  "defaultOutputLocation": {  
    "destination": {  
      "s3Destination": {  
        "s3Uri": "string"  
      }  
    },  
    "roleArn": "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the member that is being configured.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### defaultOutputLocation

The default Amazon S3 location where ML output is stored for the specified member.

Type: [MLOutputConfiguration](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# StartAudienceExportJob

Export an audience of a specified size after you have generated an audience.

## Request Syntax

```
POST /audience-export-job HTTP/1.1
Content-type: application/json

{
  "audienceGenerationJobArn": "string",
  "audienceSize": {
    "type": "string",
    "value": number
  },
  "description": "string",
  "name": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job that you want to export.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Required: Yes

## audienceSize

The size of the generated audience. Must match one of the sizes in the configured audience model.

Type: [AudienceSize](#) object

Required: Yes

## description

The description of the audience export job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## name

The name of the audience export job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# StartAudienceGenerationJob

Information necessary to start the audience generation job.

## Request Syntax

```
POST /audience-generation-job HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "collaborationId": "string",
  "configuredAudienceModelArn": "string",
  "description": "string",
  "includeSeedInOutput": boolean,
  "name": "string",
  "seedAudience": {
    "dataSource": {
      "s3Uri": "string"
    },
    "roleArn": "string",
    "sqlComputeConfiguration": { ... },
    "sqlParameters": {
      "analysisTemplateArn": "string",
      "parameters": {
        "string" : "string"
      },
      "queryString": "string"
    }
  },
  "tags": {
    "string" : "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### collaborationId

The identifier of the collaboration that contains the audience generation job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that is used for this audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### description

The description of the audience generation job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### includeSeedInOutput

Whether the seed audience is included in the audience generation output.

Type: Boolean

Required: No

## name

The name of the audience generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## seedAudience

The seed audience that is used to generate the audience.

Type: [AudienceGenerationJobDataSource](#) object

Required: Yes

## tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use `aws:`, `AWS:`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "audienceGenerationJobArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [audienceGenerationJobArn](#)

The Amazon Resource Name (ARN) of the audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ServiceQuotaExceededException**

You have exceeded your service quota.

HTTP Status Code: 402

### **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## **See Also**

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

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

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

# StartTrainedModelExportJob

Provides the information necessary to start a trained model export job.

## Request Syntax

```
POST /memberships/membershipIdentifier/trained-models/trainedModelArn/export-jobs
HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "name": "string",
  "outputConfiguration": {
    "members": [
      {
        "accountId": "string"
      }
    ]
  },
  "trainedModelVersionIdentifier": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### membershipIdentifier

The membership ID of the member that is receiving the exported trained model artifacts.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### trainedModelArn

The Amazon Resource Name (ARN) of the trained model that you want to export.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

The description of the trained model export job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### name

The name of the trained model export job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]*`

Required: Yes

### outputConfiguration

The output configuration information for the trained model export job.

Type: [TrainedModelExportOutputConfiguration](#) object

Required: Yes

### trainedModelVersionIdentifier

The version identifier of the trained model to export. This specifies which version of the trained model should be exported to the specified destination.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# StartTrainedModelInferenceJob

Defines the information necessary to begin a trained model inference job.

## Request Syntax

```
POST /memberships/membershipIdentifier/trained-model-inference-jobs HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "configuredModelAlgorithmAssociationArn": "string",
  "containerExecutionParameters": {
    "maxPayloadInMB": number
  },
  "dataSource": {
    "mlInputChannelArn": "string"
  },
  "description": "string",
  "environment": {
    "string" : "string"
  },
  "kmsKeyArn": "string",
  "name": "string",
  "outputConfiguration": {
    "accept": "string",
    "members": [
      {
        "accountId": "string"
      }
    ]
  },
  "resourceConfig": {
    "instanceCount": number,
    "instanceType": "string"
  },
  "tags": {
    "string" : "string"
  },
  "trainedModelArn": "string",
  "trainedModelVersionIdentifier": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### [membershipIdentifier](#)

The membership ID of the membership that contains the trained model inference job.

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### [configuredModelAlgorithmAssociationArn](#)

The Amazon Resource Name (ARN) of the configured model algorithm association that is used for this trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: No

### [containerExecutionParameters](#)

The execution parameters for the container.

Type: [InferenceContainerExecutionParameters](#) object

Required: No

### [dataSource](#)

Defines the data source that is used for the trained model inference job.

Type: [ModelInferenceDataSource](#) object

Required: Yes

### description

The description of the trained model inference job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### environment

The environment variables to set in the Docker container.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 16 items.

Key Length Constraints: Minimum length of 1. Maximum length of 1024.

Key Pattern: `[a-zA-Z_][a-zA-Z0-9_]*`

Value Length Constraints: Minimum length of 1. Maximum length of 10240.

Value Pattern: `[\S\s]*`

Required: No

### kmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS key. This key is used to encrypt and decrypt customer-owned data in the ML inference job and associated data.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:kms:[-a-z0-9]+:[0-9]{12}:key/.+`

Required: No

## name

The name of the trained model inference job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFD\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## outputConfiguration

Defines the output configuration information for the trained model inference job.

Type: [InferenceOutputConfiguration](#) object

Required: Yes

## resourceConfig

Defines the resource configuration for the trained model inference job.

Type: [InferenceResourceConfig](#) object

Required: Yes

## tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.

- Do not use `aws;`, `AWS;`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms ML considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

### [trainedModelArn](#)

The Amazon Resource Name (ARN) of the trained model that is used for this trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### [trainedModelVersionIdentifier](#)

The version identifier of the trained model to use for inference. This specifies which version of the trained model should be used to generate predictions on the input data.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "trainedModelInferenceJobArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### [trainedModelInferenceJobArn](#)

The Amazon Resource Name (ARN) of the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ConflictException**

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

## ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

## ServiceQuotaExceededException

You have exceeded your service quota.

HTTP Status Code: 402

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

## ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# TagResource

Adds metadata tags to a specified resource.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json
```

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

## URI Request Parameters

The request uses the following URI parameters.

### [resourceArn](#)

The Amazon Resource Name (ARN) of the resource that you want to assign tags.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:((membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12})/(configured-model-algorithm-association|trained-model|trained-model-inference-job|ml-input-channel))|training-dataset|audience-model|configured-audience-model|audience-generation-job|configured-model-algorithm)/[-a-zA-Z0-9_/.]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## tags

The optional metadata that you apply to the resource to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define.

The following basic restrictions apply to tags:

- Maximum number of tags per resource - 50.
- For each resource, each tag key must be unique, and each tag key can have only one value.
- Maximum key length - 128 Unicode characters in UTF-8.
- Maximum value length - 256 Unicode characters in UTF-8.
- If your tagging schema is used across multiple services and resources, remember that other services may have restrictions on allowed characters. Generally allowed characters are: letters, numbers, and spaces representable in UTF-8, and the following characters: + - = . \_ : / @.
- Tag keys and values are case sensitive.
- Do not use `aws:`, `AWS:`, or any upper or lowercase combination of such as a prefix for keys as it is reserved for AWS use. You cannot edit or delete tag keys with this prefix. Values can have this prefix. If a tag value has `aws` as its prefix but the key does not, then Clean Rooms considers it to be a user tag and will count against the limit of 50 tags. Tags with only the key prefix of `aws` do not count against your tags per resource limit.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource you are requesting does not exist.

HTTP Status Code: 404

### **ValidationException**

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

# UntagResource

Removes metadata tags from a specified resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the resource that you want to remove tags from.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:(membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/(configured-model-algorithm-association|trained-model|trained-model-inference-job|ml-input-channel)|training-dataset|audience-model|configured-audience-model|audience-generation-job|configured-model-algorithm)/[-a-zA-Z0-9_/.]+`

Required: Yes

### tagKeys

The key values of tags that you want to remove.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# UpdateConfiguredAudienceModel

Provides the information necessary to update a configured audience model. Updates that impact audience generation jobs take effect when a new job starts, but do not impact currently running jobs.

## Request Syntax

```
PATCH /configured-audience-model/configuredAudienceModelArn HTTP/1.1
Content-type: application/json
```

```
{
  "audienceModelArn": "string",
  "audienceSizeConfig": {
    "audienceSizeBins": [ number ],
    "audienceSizeType": "string"
  },
  "description": "string",
  "minMatchingSeedSize": number,
  "outputConfig": {
    "destination": {
      "s3Destination": {
        "s3Uri": "string"
      }
    },
    "roleArn": "string"
  },
  "sharedAudienceMetrics": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that you want to update.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[ -a-zA-Z0-9_/. ]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### audienceModelArn

The Amazon Resource Name (ARN) of the new audience model that you want to use.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: No

### audienceSizeConfig

The new audience size configuration.

Type: [AudienceSizeConfig](#) object

Required: No

### description

The new description of the configured audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### minMatchingSeedSize

The minimum number of users from the seed audience that must match with users in the training data of the audience model.

Type: Integer

Valid Range: Minimum value of 25. Maximum value of 500000.

Required: No

### outputConfig

The new output configuration.

Type: [ConfiguredAudienceModelOutputConfig](#) object

Required: No

### sharedAudienceMetrics

The new value for whether to share audience metrics.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: ALL | NONE

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configuredAudienceModelArn": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### configuredAudienceModelArn

The Amazon Resource Name (ARN) of the configured audience model that was updated.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ConflictException

You can't complete this action because another resource depends on this resource.

HTTP Status Code: 409

### ResourceNotFoundException

The resource you are requesting does not exist.

HTTP Status Code: 404

### ValidationException

The request parameters for this request are incorrect.

HTTP Status Code: 400

## See Also

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

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

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

# Data Types

The AWS Clean Rooms ML API contains several data types that various actions use. This section describes each data type in detail.

## Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AccessBudget](#)
- [AccessBudgetDetails](#)
- [AudienceDestination](#)
- [AudienceExportJobSummary](#)
- [AudienceGenerationJobDataSource](#)
- [AudienceGenerationJobSummary](#)
- [AudienceModelSummary](#)
- [AudienceQualityMetrics](#)
- [AudienceSize](#)
- [AudienceSizeConfig](#)
- [CollaborationConfiguredModelAlgorithmAssociationSummary](#)
- [CollaborationMLInputChannelSummary](#)
- [CollaborationTrainedModelExportJobSummary](#)
- [CollaborationTrainedModelInferenceJobSummary](#)
- [CollaborationTrainedModelSummary](#)
- [ColumnClassificationDetails](#)
- [ColumnSchema](#)
- [ComputeConfiguration](#)
- [ConfiguredAudienceModelOutputConfig](#)
- [ConfiguredAudienceModelSummary](#)

- [ConfiguredModelAlgorithmAssociationSummary](#)
- [ConfiguredModelAlgorithmSummary](#)
- [ContainerConfig](#)
- [CustomEntityConfig](#)
- [DataPrivacyScores](#)
- [Dataset](#)
- [DatasetInputConfig](#)
- [DataSource](#)
- [Destination](#)
- [GlueDataSource](#)
- [IncrementalTrainingDataChannel](#)
- [IncrementalTrainingDataChannelOutput](#)
- [InferenceContainerConfig](#)
- [InferenceContainerExecutionParameters](#)
- [InferenceOutputConfiguration](#)
- [InferenceReceiverMember](#)
- [InferenceResourceConfig](#)
- [InputChannel](#)
- [InputChannelDataSource](#)
- [LogRedactionConfiguration](#)
- [LogsConfigurationPolicy](#)
- [MembershipInferenceAttackScore](#)
- [MetricDefinition](#)
- [MetricsConfigurationPolicy](#)
- [MLInputChannelSummary](#)
- [MLOutputConfiguration](#)
- [MLSyntheticDataParameters](#)
- [ModelInferenceDataSource](#)
- [ModelTrainingDataChannel](#)
- [PrivacyBudgets](#)

- [PrivacyConfiguration](#)
- [PrivacyConfigurationPolicies](#)
- [ProtectedQueryInputParameters](#)
- [ProtectedQuerySQLParameters](#)
- [RelevanceMetric](#)
- [ResourceConfig](#)
- [S3ConfigMap](#)
- [StatusDetails](#)
- [StoppingCondition](#)
- [SyntheticDataColumnProperties](#)
- [SyntheticDataConfiguration](#)
- [SyntheticDataEvaluationScores](#)
- [TrainedModelArtifactMaxSize](#)
- [TrainedModelExportOutputConfiguration](#)
- [TrainedModelExportReceiverMember](#)
- [TrainedModelExportsConfigurationPolicy](#)
- [TrainedModelExportsMaxSize](#)
- [TrainedModelInferenceJobsConfigurationPolicy](#)
- [TrainedModelInferenceJobSummary](#)
- [TrainedModelInferenceMaxOutputSize](#)
- [TrainedModelsConfigurationPolicy](#)
- [TrainedModelSummary](#)
- [TrainingDatasetSummary](#)
- [WorkerComputeConfiguration](#)
- [WorkerComputeConfigurationProperties](#)

# AccessBudget

An access budget that defines consumption limits for a specific resource within defined time periods.

## Contents

### aggregateRemainingBudget

The total remaining budget across all active budget periods for this resource.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### details

A list of budget details for this resource. Contains active budget periods that apply to the resource.

Type: Array of [AccessBudgetDetails](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

### resourceArn

The Amazon Resource Name (ARN) of the resource that this access budget applies to.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws:[\w]+:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/configuredtableassociation/[\d\w-]+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AccessBudgetDetails

The detailed information for a specific budget period, including time boundaries and budget amounts.

## Contents

### **budget**

The total budget amount allocated for this period.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### **budgetType**

The type of budget period. Calendar-based types reset automatically at regular intervals, while LIFETIME budgets never reset.

Type: String

Valid Values: CALENDAR\_DAY | CALENDAR\_MONTH | CALENDAR\_WEEK | LIFETIME

Required: Yes

### **remainingBudget**

The amount of budget remaining in this period.

Type: Integer

Valid Range: Minimum value of 0.

Required: Yes

### **startTime**

The start time of this budget period.

Type: Timestamp

Required: Yes

## autoRefresh

Specifies whether this budget automatically refreshes when the current period ends.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

## endTime

The end time of this budget period. If not specified, the budget period continues indefinitely.

Type: Timestamp

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AudienceDestination

Defines the Amazon S3 bucket where the configured audience is stored.

## Contents

### s3Destination

The Amazon S3 bucket and path for the configured audience.

Type: [S3ConfigMap](#) object

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AudienceExportJobSummary

Provides information about the audience export job.

## Contents

### audienceGenerationJobArn

The Amazon Resource Name (ARN) of the audience generation job that was exported.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Required: Yes

### audienceSize

The size of the generated audience. Must match one of the sizes in the configured audience model.

Type: [AudienceSize](#) object

Required: Yes

### createTime

The time at which the audience export job was created.

Type: Timestamp

Required: Yes

### name

The name of the audience export job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **status**

The status of the audience export job.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE

Required: Yes

### **updateTime**

The most recent time at which the audience export job was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the audience export job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### **outputLocation**

The Amazon S3 bucket where the audience export is stored.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1285.

Pattern: `s3://.+`

Required: No

### **statusDetails**

Details about the status of a resource.

Type: [StatusDetails](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AudienceGenerationJobDataSource

Defines the Amazon S3 bucket where the seed audience for the generating audience is stored.

## Contents

### roleArn

The ARN of the IAM role that can read the Amazon S3 bucket where the seed audience is stored.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

Required: Yes

### dataSource

Defines the Amazon S3 bucket where the seed audience for the generating audience is stored. A valid data source is a JSON line file in the following format:

```
{"user_id": "111111"}
```

```
{"user_id": "222222"}
```

...

Type: [S3ConfigMap](#) object

Required: No

### sqlComputeConfiguration

Provides configuration information for the instances that will perform the compute work.

Type: [ComputeConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### sqlParameters

The protected SQL query parameters.

Type: [ProtectedQuerySQLParameters](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AudienceGenerationJobSummary

Provides information about the configured audience generation job.

## Contents

### **audienceGenerationJobArn**

The Amazon Resource Name (ARN) of the audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-generation-job/[-a-zA-Z0-9_/.]+`

Required: Yes

### **configuredAudienceModelArn**

The Amazon Resource Name (ARN) of the configured audience model that was used for this audience generation job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the audience generation job was created.

Type: Timestamp

Required: Yes

### **name**

The name of the audience generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

### **status**

The status of the audience generation job.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED

Required: Yes

### **updateTime**

The most recent time at which the audience generation job was updated.

Type: Timestamp

Required: Yes

### **collaborationId**

The identifier of the collaboration that contains this audience generation job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

### **description**

The description of the audience generation job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### **startedBy**

The AWS Account that submitted the job.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AudienceModelSummary

Information about the audience model.

## Contents

### **audienceModelArn**

The Amazon Resource Name (ARN) of the audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the audience model was created.

Type: Timestamp

Required: Yes

### **name**

The name of the audience model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **status**

The status of the audience model.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED

Required: Yes

### **trainingDatasetArn**

The Amazon Resource Name (ARN) of the training dataset that was used for the audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9_/.]+`

Required: Yes

### **updateTime**

The most recent time at which the audience model was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\u007F\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AudienceQualityMetrics

Metrics that describe the quality of the generated audience.

## Contents

### relevanceMetrics

The relevance scores of the generated audience.

Type: Array of [RelevanceMetric](#) objects

Required: Yes

### recallMetric

The recall score of the generated audience. Recall is the percentage of the most similar users (by default, the most similar 20%) from a sample of the training data that are included in the seed audience by the audience generation job. Values range from 0-1, larger values indicate a better audience. A recall value approximately equal to the maximum bin size indicates that the audience model is equivalent to random selection.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AudienceSize

The size of the generated audience. Must match one of the sizes in the configured audience model.

## Contents

### type

Whether the audience size is defined in absolute terms or as a percentage. You can use the ABSOLUTE [AudienceSize](#) to configure out audience sizes using the count of identifiers in the output. You can use the Percentage [AudienceSize](#) to configure sizes in the range 1-100 percent.

Type: String

Valid Values: ABSOLUTE | PERCENTAGE

Required: Yes

### value

Specify an audience size value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20000000.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# AudienceSizeConfig

Returns the relevance scores at these audience sizes when used in the [GetAudienceGenerationJob](#) for a specified audience generation job and configured audience model.

Specifies the list of allowed audienceSize values when used in the [StartAudienceExportJob](#) for an audience generation job. You can use the ABSOLUTE [AudienceSize](#) to configure out audience sizes using the count of identifiers in the output. You can use the Percentage [AudienceSize](#) to configure sizes in the range 1-100 percent.

## Contents

### audienceSizeBins

An array of the different audience output sizes.

Type: Array of integers

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Valid Range: Minimum value of 1. Maximum value of 20000000.

Required: Yes

### audienceSizeType

Whether the audience output sizes are defined as an absolute number or a percentage.

Type: String

Valid Values: ABSOLUTE | PERCENTAGE

Required: Yes

## See Also

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

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

- [AWS SDK for Ruby V3](#)

# CollaborationConfiguredModelAlgorithmAssociationSummary

Provides summary information about a configured model algorithm in a collaboration.

## Contents

### **collaborationIdentifier**

The collaboration ID of the collaboration that contains the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **configuredModelAlgorithmArn**

The Amazon Resource Name (ARN) of the configured model algorithm that is associated to the collaboration.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

### **configuredModelAlgorithmAssociationArn**

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the configured model algorithm association was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The account ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]{12}

Required: Yes

### **membershipIdentifier**

The membership ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### **name**

The name of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

## updateTime

The most recent time at which the configured model algorithm association was updated.

Type: Timestamp

Required: Yes

## description

The description of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\u007F\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationMLInputChannelSummary

Provides summary information about an ML input channel in a collaboration.

## Contents

### **collaborationIdentifier**

The collaboration ID of the collaboration that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **configuredModelAlgorithmAssociations**

The associated configured model algorithms used to create the ML input channel.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the ML input channel was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The account ID of the member who created the ML input channel.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

### **membershipIdentifier**

The membership ID of the membership that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **mlInputChannelArn**

The Amazon Resource Name (ARN) of the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

### **name**

The name of the ML input channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

## status

The status of the ML input channel.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED | INACTIVE

Required: Yes

## updateTime

The most recent time at which the ML input channel was updated.

Type: Timestamp

Required: Yes

## description

The description of the ML input channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationTrainedModelExportJobSummary

Provides summary information about a trained model export job in a collaboration.

## Contents

### **collaborationIdentifier**

The collaboration ID of the collaboration that contains the trained model export job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time at which the trained model export job was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The account ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

### **membershipIdentifier**

The membership ID of the member that created the trained model export job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the trained model export job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **outputConfiguration**

Information about the output of the trained model export job.

Type: [TrainedModelExportOutputConfiguration](#) object

Required: Yes

### **status**

The status of the trained model.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE

Required: Yes

### **trainedModelArn**

The Amazon Resource Name (ARN) of the trained model that is being exported.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

## updateTime

The most recent time at which the trained model export job was updated.

Type: Timestamp

Required: Yes

## description

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## statusDetails

Details about the status of a resource.

Type: [StatusDetails](#) object

Required: No

## trainedModelVersionIdentifier

The version identifier of the trained model that was exported in this job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationTrainedModelInferenceJobSummary

Provides summary information about a trained model inference job in a collaboration.

## Contents

### **collaborationIdentifier**

The collaboration ID of the collaboration that contains the trained model inference job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time at which the trained model inference job was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The account ID that created the trained model inference job.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

### **membershipIdentifier**

The membership ID of the membership that contains the trained model inference job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the trained model inference job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **outputConfiguration**

Returns output configuration information for the trained model inference job.

Type: [InferenceOutputConfiguration](#) object

Required: Yes

### **status**

The status of the trained model inference job.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | CANCEL\_PENDING | CANCEL\_IN\_PROGRESS | CANCEL\_FAILED | INACTIVE

Required: Yes

### **trainedModelArn**

The Amazon Resource Name (ARN) of the trained model that is used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### **trainedModelInferenceJobArn**

The Amazon Resource Name (ARN) of the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

Required: Yes

### **updateTime**

The most recent time at which the trained model inference job was updated.

Type: Timestamp

Required: Yes

### **configuredModelAlgorithmAssociationArn**

The Amazon Resource Name (ARN) of the configured model algorithm association that is used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: No

### **description**

The description of the trained model inference job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### **logsStatus**

The trained model inference job logs status.

Type: String

Valid Values: PUBLISH\_SUCCEEDED | PUBLISH\_FAILED

Required: No

### **logsStatusDetails**

Details about the logs status for the trained model inference job.

Type: String

Required: No

### **metricsStatus**

the trained model inference job metrics status.

Type: String

Valid Values: PUBLISH\_SUCCEEDED | PUBLISH\_FAILED

Required: No

### **metricsStatusDetails**

Details about the metrics status for trained model inference job.

Type: String

Required: No

### **trainedModelVersionIdentifier**

The version identifier of the trained model that was used for inference in this job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CollaborationTrainedModelSummary

Provides summary information about a trained model in a collaboration.

## Contents

### **collaborationIdentifier**

The collaboration ID of the collaboration that contains the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **configuredModelAlgorithmAssociationArn**

The Amazon Resource Name (ARN) of the configured model algorithm association that is used for this trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the trained model was created.

Type: Timestamp

Required: Yes

### **creatorAccountId**

The account ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]{12}

Required: Yes

### **membershipIdentifier**

The membership ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

### **name**

The name of the trained model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

### **status**

The status of the trained model.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE  
| DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED | INACTIVE |  
CANCEL\_PENDING | CANCEL\_IN\_PROGRESS | CANCEL\_FAILED

Required: Yes

### **trainedModelArn**

The Amazon Resource Name (ARN) of the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### **updateTime**

The most recent time at which the trained model was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### **incrementalTrainingDataChannels**

Information about the incremental training data channels used to create this version of the trained model.

Type: Array of [IncrementalTrainingDataChannelOutput](#) objects

Array Members: Fixed number of 1 item.

Required: No

### **versionIdentifier**

The version identifier of this trained model version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ColumnClassificationDetails

Contains classification information for data columns, including mappings that specify how columns should be handled during synthetic data generation and privacy analysis.

## Contents

### columnMapping

A mapping that defines the classification of data columns for synthetic data generation and specifies how each column should be handled during the privacy-preserving data synthesis process.

Type: Array of [SyntheticDataColumnProperties](#) objects

Array Members: Minimum number of 5 items.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ColumnSchema

Metadata for a column.

## Contents

### columnName

The name of a column.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+ - )*( [a-zA-Z0-9_ ]+ ))?`

Required: Yes

### columnTypes

The data type of column.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: USER\_ID | ITEM\_ID | TIMESTAMP | CATEGORICAL\_FEATURE | NUMERICAL\_FEATURE

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ComputeConfiguration

Provides configuration information for the instances that will perform the compute work.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### worker

The worker instances that will perform the compute work.

Type: [WorkerComputeConfiguration](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredAudienceModelOutputConfig

Configuration information necessary for the configure audience model output.

## Contents

### destination

Defines the Amazon S3 bucket where the configured audience is stored.

Type: [AudienceDestination](#) object

Required: Yes

### roleArn

The ARN of the IAM role that can write the Amazon S3 bucket.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam:[0-9]{12}:role/.+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredAudienceModelSummary

Information about the configured audience model.

## Contents

### **audienceModelArn**

The Amazon Resource Name (ARN) of the audience model that was used to create the configured audience model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### **configuredAudienceModelArn**

The Amazon Resource Name (ARN) of the configured audience model that you are interested in.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-audience-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the configured audience model was created.

Type: Timestamp

Required: Yes

### **name**

The name of the configured audience model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

### **outputConfig**

The output configuration of the configured audience model.

Type: [ConfiguredAudienceModelOutputConfig](#) object

Required: Yes

### **status**

The status of the configured audience model.

Type: String

Valid Values: ACTIVE

Required: Yes

### **updateTime**

The most recent time at which the configured audience model was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the configured audience model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: [\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t\r\n]\*

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredModelAlgorithmAssociationSummary

Provides summary information about the configured model algorithm association.

## Contents

### **collaborationIdentifier**

The collaboration ID of the collaboration that contains the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **configuredModelAlgorithmArn**

The Amazon Resource Name (ARN) of the configured model algorithm that is being associated.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

### **configuredModelAlgorithmAssociationArn**

The Amazon Resource Name (ARN) of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the configured model algorithm association was created.

Type: Timestamp

Required: Yes

### **membershipIdentifier**

The membership ID of the member that created the configured model algorithm association.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **updateTime**

The most recent time at which the configured model algorithm association was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the configured model algorithm association.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ConfiguredModelAlgorithmSummary

Provides summary information about a configured model algorithm.

## Contents

### **configuredModelAlgorithmArn**

The Amazon Resource Name (ARN) of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:configured-model-algorithm/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the configured model algorithm was created.

Type: Timestamp

Required: Yes

### **name**

The name of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **updateTime**

The most recent time at which the configured model algorithm was updated.

Type: Timestamp

Required: Yes

## description

The description of the configured model algorithm.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ContainerConfig

Provides configuration information for the dockerized container where the model algorithm is stored.

## Contents

### imageUri

The registry path of the docker image that contains the algorithm. Clean Rooms ML currently only supports the `registry/repository[:tag]` image path format. For more information about using images in Clean Rooms ML, see the [Sagemaker API reference](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `.*`

Required: Yes

### arguments

The arguments for a container used to run a training job. See [How Amazon SageMaker Runs Your Training Image](#) for additional information. For more information, see [How Sagemaker runs your training image](#).

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `.*`

Required: No

### entrypoint

The entrypoint script for a Docker container used to run a training job. This script takes precedence over the default train processing instructions. See [How Amazon SageMaker Runs Your Training Image](#) for additional information. For more information, see [How Sagemaker runs your training image](#).

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: .\*

Required: No

## **metricDefinitions**

A list of metric definition objects. Each object specifies the metric name and regular expressions used to parse algorithm logs. AWS Clean Rooms ML publishes each metric to all members' Amazon CloudWatch using IAM role configured in [PutMLConfiguration](#).

Type: Array of [MetricDefinition](#) objects

Array Members: Minimum number of 0 items. Maximum number of 40 items.

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# CustomEntityConfig

The configuration for defining custom patterns to be redacted from logs and error messages. This is for the CUSTOM config under entitiesToRedact. Both CustomEntityConfig and entitiesToRedact need to be present or not present.

## Contents

### customDataIdentifiers

Defines data identifiers for the custom entity configuration. Provide this only if CUSTOM redaction is configured.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 200.

Pattern: `[a-zA-Z0-9_\#\=\@/\;\,\-\ \^\$\?\[\]\{\}\|\|\\*\+\.\(\)]+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DataPrivacyScores

Privacy evaluation scores that measure the privacy characteristics of the generated synthetic data, including assessments of potential privacy risks such as membership inference attacks.

## Contents

### membershipInferenceAttackScores

Scores that evaluate the vulnerability of the synthetic data to membership inference attacks, which attempt to determine whether a specific individual was a member of the original dataset.

Type: Array of [MembershipInferenceAttackScore](#) objects

Array Members: Fixed number of 1 item.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Dataset

Defines where the training dataset is located, what type of data it contains, and how to access the data.

## Contents

### inputConfig

A DatasetInputConfig object that defines the data source and schema mapping.

Type: [DatasetInputConfig](#) object

Required: Yes

### type

What type of information is found in the dataset.

Type: String

Valid Values: INTERACTIONS

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DatasetInputConfig

Defines the Glue data source and schema mapping information.

## Contents

### dataSource

A DataSource object that specifies the Glue data source for the training data.

Type: [DataSource](#) object

Required: Yes

### schema

The schema information for the training data.

Type: Array of [ColumnSchema](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# DataSource

Defines information about the Glue data source that contains the training data.

## Contents

### glueDataSource

A GlueDataSource object that defines the catalog ID, database name, and table name for the training data.

Type: [GlueDataSource](#) object

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Destination

The Amazon S3 location where the exported model artifacts are stored.

## Contents

### s3Destination

Provides information about an Amazon S3 bucket and path.

Type: [S3ConfigMap](#) object

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GlueDataSource

Defines the Glue data source that contains the training data.

## Contents

### databaseName

The Glue database that contains the training data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_]+- )*( [a-zA-Z0-9_]+ ) )?`

Required: Yes

### tableName

The Glue table that contains the training data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_]( ([a-zA-Z0-9_ ]+- )*( [a-zA-Z0-9_ ]+ ) )?`

Required: Yes

### catalogId

The Glue catalog that contains the training data.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IncrementalTrainingDataChannel

Defines an incremental training data channel that references a previously trained model. Incremental training allows you to update an existing trained model with new data, building upon the knowledge from a base model rather than training from scratch. This can significantly reduce training time and computational costs while improving model performance with additional data.

## Contents

### channelName

The name of the incremental training data channel. This name is used to identify the channel during the training process and must be unique within the training job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9\.\- _]+`

Required: Yes

### trainedModelArn

The Amazon Resource Name (ARN) of the base trained model to use for incremental training. This model serves as the starting point for the incremental training process.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### versionIdentifier

The version identifier of the base trained model to use for incremental training. If not specified, the latest version of the trained model is used.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# IncrementalTrainingDataChannelOutput

Contains information about an incremental training data channel that was used to create a trained model. This structure provides details about the base model and channel configuration used during incremental training.

## Contents

### channelName

The name of the incremental training data channel that was used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9\.\- _]+`

Required: Yes

### modelName

The name of the base trained model that was used for incremental training.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### versionIdentifier

The version identifier of the trained model that was used for incremental training.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# InferenceContainerConfig

Provides configuration information for the inference container.

## Contents

### imageUri

The registry path of the docker image that contains the inference algorithm. Clean Rooms ML currently only supports the `registry/repository[:tag]` image path format. For more information about using images in Clean Rooms ML, see the [Sagemaker API reference](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: .\*

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# InferenceContainerExecutionParameters

Provides execution parameters for the inference container.

## Contents

### maxPayloadInMB

The maximum size of the inference container payload, specified in MB.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# InferenceOutputConfiguration

Configuration information about how the inference output is stored.

## Contents

### members

Defines the members that can receive inference output.

Type: Array of [InferenceReceiverMember](#) objects

Array Members: Fixed number of 1 item.

Required: Yes

### accept

The MIME type used to specify the output data.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: .\*

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# InferenceReceiverMember

Defines who will receive inference results.

## Contents

### accountId

The account ID of the member that can receive inference results.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]{12}

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# InferenceResourceConfig

Defines the resources used to perform model inference.

## Contents

### instanceType

The type of instance that is used to perform model inference.

Type: String

Valid Values: ml.r7i.48xlarge | ml.r6i.16xlarge | ml.m6i.xlarge | ml.m5.4xlarge | ml.p2.xlarge | ml.m4.16xlarge | ml.r7i.16xlarge | ml.m7i.xlarge | ml.m6i.12xlarge | ml.r7i.8xlarge | ml.r7i.large | ml.m7i.12xlarge | ml.m6i.24xlarge | ml.m7i.24xlarge | ml.r6i.8xlarge | ml.r6i.large | ml.g5.2xlarge | ml.m5.large | ml.m7i.48xlarge | ml.m6i.16xlarge | ml.p2.16xlarge | ml.g5.4xlarge | ml.m7i.16xlarge | ml.c4.2xlarge | ml.c5.2xlarge | ml.c6i.32xlarge | ml.c4.4xlarge | ml.g5.8xlarge | ml.c6i.xlarge | ml.c5.4xlarge | ml.g4dn.xlarge | ml.c7i.xlarge | ml.c6i.12xlarge | ml.g4dn.12xlarge | ml.c7i.12xlarge | ml.c6i.24xlarge | ml.g4dn.2xlarge | ml.c7i.24xlarge | ml.c7i.2xlarge | ml.c4.8xlarge | ml.c6i.2xlarge | ml.g4dn.4xlarge | ml.c7i.48xlarge | ml.c7i.4xlarge | ml.c6i.16xlarge | ml.c5.9xlarge | ml.g4dn.16xlarge | ml.c7i.16xlarge | ml.c6i.4xlarge | ml.c5.xlarge | ml.c4.xlarge | ml.g4dn.8xlarge | ml.c7i.8xlarge | ml.c7i.large | ml.g5.xlarge | ml.c6i.8xlarge | ml.c6i.large | ml.g5.12xlarge | ml.g5.24xlarge | ml.m7i.2xlarge | ml.c5.18xlarge | ml.g5.48xlarge | ml.m6i.2xlarge | ml.g5.16xlarge | ml.m7i.4xlarge | ml.r6i.32xlarge | ml.m6i.4xlarge | ml.m5.xlarge | ml.m4.10xlarge | ml.r6i.xlarge | ml.m5.12xlarge | ml.m4.xlarge | ml.r7i.2xlarge | ml.r7i.xlarge | ml.r6i.12xlarge | ml.m5.24xlarge | ml.r7i.12xlarge | ml.m7i.8xlarge | ml.m7i.large | ml.r6i.24xlarge | ml.r6i.2xlarge | ml.m4.2xlarge | ml.r7i.24xlarge | ml.r7i.4xlarge | ml.m6i.8xlarge | ml.m6i.large | ml.m5.2xlarge | ml.p2.8xlarge | ml.r6i.4xlarge | ml.m6i.32xlarge | ml.m4.4xlarge | ml.p3.16xlarge | ml.p3.2xlarge | ml.p3.8xlarge

Required: Yes

## instanceCount

The number of instances to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# InputChannel

Provides information about the data source that is used to create an ML input channel.

## Contents

### dataSource

The data source that is used to create the ML input channel.

Type: [InputChannelDataSource](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### roleArn

The Amazon Resource Name (ARN) of the role used to run the query specified in the `dataSource` field of the input channel.

Passing a role across AWS accounts is not allowed. If you pass a role that isn't in your account, you get an `AccessDeniedException` error.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# InputChannelDataSource

Provides the data source that is used to define an input channel.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### protectedQueryInputParameters

Provides information necessary to perform the protected query.

Type: [ProtectedQueryInputParameters](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LogRedactionConfiguration

The configuration for log redaction.

## Contents

### entitiesToRedact

Specifies the entities to be redacted from logs. Entities to redact are "ALL\_PERSONALLY\_IDENTIFIABLE\_INFORMATION", "NUMBERS", "CUSTOM". If CUSTOM is supplied or configured, custom patterns (customDataIdentifiers) should be provided, and the patterns will be redacted in logs or error messages.

Type: Array of strings

Array Members: Minimum number of 1 item.

Valid Values: ALL\_PERSONALLY\_IDENTIFIABLE\_INFORMATION | NUMBERS | CUSTOM

Required: Yes

### customEntityConfig

Specifies the configuration for custom entities in the context of log redaction.

Type: [CustomEntityConfig](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# LogsConfigurationPolicy

Provides the information necessary for a user to access the logs.

## Contents

### allowedAccountIds

A list of account IDs that are allowed to access the logs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: Yes

### filterPattern

A regular expression pattern that is used to parse the logs and return information that matches the pattern.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

### logRedactionConfiguration

Specifies the log redaction configuration for this policy.

Type: [LogRedactionConfiguration](#) object

Required: No

### logType

Specifies the type of log this policy applies to. The currently supported policies are ALL or ERROR\_SUMMARY.

Type: String

Valid Values: ALL | ERROR\_SUMMARY

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MembershipInferenceAttackScore

A score that measures the vulnerability of synthetic data to membership inference attacks and provides both the numerical score and the version of the attack methodology used for evaluation.

## Contents

### attackVersion

The version of the membership inference attack, which consists of the attack type and its version number, used to generate this privacy score.

Type: String

Valid Values: DISTANCE\_TO\_CLOSEST\_RECORD\_V1

Required: Yes

### score

The numerical score representing the vulnerability to membership inference attacks.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 1.0.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MetricDefinition

Information about the model metric that is reported for a trained model.

## Contents

### name

The name of the model metric.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: .+

Required: Yes

### regex

The regular expression statement that defines how the model metric is reported.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 500.

Pattern: .+

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MetricsConfigurationPolicy

Provides the configuration policy for metrics generation.

## Contents

### noiseLevel

The noise level for the generated metrics.

Type: String

Valid Values: HIGH | MEDIUM | LOW | NONE

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MLInputChannelSummary

Provides summary information about the ML input channel.

## Contents

### **collaborationIdentifier**

The collaboration ID of the collaboration that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **configuredModelAlgorithmAssociations**

The associated configured model algorithms used to create the ML input channel.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the ML input channel was created.

Type: Timestamp

Required: Yes

### **membershipIdentifier**

The membership ID of the membership that contains the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **mlInputChannelArn**

The Amazon Resource Name (ARN) of the ML input channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

### **name**

The name of the ML input channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **status**

The status of the ML input channel.

Type: String

Valid Values: `CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_FAILED | ACTIVE | DELETE_PENDING | DELETE_IN_PROGRESS | DELETE_FAILED | INACTIVE`

Required: Yes

## updateTime

The most recent time at which the ML input channel was updated.

Type: Timestamp

Required: Yes

## description

The description of the ML input channel.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## protectedQueryIdentifier

The ID of the protected query that was used to create the ML input channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MLOutputConfiguration

Configuration information about how the exported model artifacts are stored.

## Contents

### roleArn

The Amazon Resource Name (ARN) of the service access role that is used to store the model artifacts.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:iam::[0-9]{12}:role/.+`

Required: Yes

### destination

The Amazon S3 location where exported model artifacts are stored.

Type: [Destination](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MLSyntheticDataParameters

Parameters that control the generation of synthetic data for custom model training, including privacy settings and column classification details.

## Contents

### epsilon

The epsilon value for differential privacy, which controls the privacy-utility tradeoff in synthetic data generation. Lower values provide stronger privacy guarantees but may reduce data utility.

Type: Double

Valid Range: Minimum value of 0.0001. Maximum value of 10.

Required: Yes

### maxMembershipInferenceAttackScore

The maximum acceptable score for membership inference attack vulnerability. Synthetic data generation fails if the score for the resulting data exceeds this threshold.

Type: Double

Valid Range: Minimum value of 0.5. Maximum value of 1.

Required: Yes

### columnClassification

Classification details for data columns that specify how each column should be treated during synthetic data generation.

Type: [ColumnClassificationDetails](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ModelInferenceDataSource

Defines information about the data source used for model inference.

## Contents

### mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel for this model inference data source.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ModelTrainingDataChannel

Information about the model training data channel. A training data channel is a named data source that the training algorithms can consume.

## Contents

### channelName

The name of the training data channel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9\.\-\_]+`

Required: Yes

### mlInputChannelArn

The Amazon Resource Name (ARN) of the ML input channel for this model training data channel.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/ml-input-channel/[-a-zA-Z0-9_/.]+`

Required: Yes

### s3DataDistributionType

Specifies how the training data stored in Amazon S3 should be distributed to training instances. This parameter controls the data distribution strategy for the training job:

- **FullyReplicated** - The entire dataset is replicated on each training instance. This is suitable for smaller datasets and algorithms that require access to the complete dataset.
- **ShardedByS3Key** - The dataset is distributed across training instances based on Amazon S3 key names. This is suitable for larger datasets and distributed training scenarios where each instance processes a subset of the data.

Type: String

Valid Values: FullyReplicated | ShardedByS3Key

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyBudgets

The privacy budget information that controls access to Clean Rooms ML input channels.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

### accessBudgets

A list of access budgets that apply to resources associated with this Clean Rooms ML input channel.

Type: Array of [AccessBudget](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyConfiguration

Information about the privacy configuration for a configured model algorithm association.

## Contents

### policies

The privacy configuration policies for a configured model algorithm association.

Type: [PrivacyConfigurationPolicies](#) object

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# PrivacyConfigurationPolicies

Information about the privacy configuration policies for a configured model algorithm association.

## Contents

### trainedModelExports

Specifies who will receive the trained model export.

Type: [TrainedModelExportsConfigurationPolicy](#) object

Required: No

### trainedModelInferenceJobs

Specifies who will receive the trained model inference jobs.

Type: [TrainedModelInferenceJobsConfigurationPolicy](#) object

Required: No

### trainedModels

Specifies who will receive the trained models.

Type: [TrainedModelsConfigurationPolicy](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ProtectedQueryInputParameters

Provides information necessary to perform the protected query.

## Contents

### sqlParameters

The parameters for the SQL type Protected Query.

Type: [ProtectedQuerySQLParameters](#) object

Required: Yes

### computeConfiguration

Provides configuration information for the workers that will perform the protected query.

Type: [ComputeConfiguration](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### resultFormat

The format in which the query results should be returned. If not specified, defaults to CSV.

Type: String

Valid Values: CSV | PARQUET

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# ProtectedQuerySQLParameters

The parameters for the SQL type Protected Query.

## Contents

### analysisTemplateArn

The Amazon Resource Name (ARN) associated with the analysis template within a collaboration.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 200.

Pattern: `arn:aws[-a-z]*:cleanrooms:[\w]{2}-[\w]{4,9}-[\d]:[\d]{12}:membership/[\d\w-]+/analysistemplate/[\d\w-]+`

Required: No

### parameters

The protected query SQL parameters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[\0-9a-zA-Z_]+`

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

### queryString

The query string to be submitted.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500000.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# RelevanceMetric

The relevance score of a generated audience.

## Contents

### audienceSize

The size of the generated audience. Must match one of the sizes in the configured audience model.

Type: [AudienceSize](#) object

Required: Yes

### score

The relevance score of the generated audience.

Type: Double

Valid Range: Minimum value of 0.0. Maximum value of 10.0.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# ResourceConfig

Information about the EC2 resources that are used to train the model.

## Contents

### instanceType

The instance type that is used to train the model.

Type: String

Valid Values: ml.m4.xlarge | ml.m4.2xlarge | ml.m4.4xlarge | ml.m4.10xlarge | ml.m4.16xlarge | ml.g4dn.xlarge | ml.g4dn.2xlarge | ml.g4dn.4xlarge | ml.g4dn.8xlarge | ml.g4dn.12xlarge | ml.g4dn.16xlarge | ml.m5.large | ml.m5.xlarge | ml.m5.2xlarge | ml.m5.4xlarge | ml.m5.12xlarge | ml.m5.24xlarge | ml.c4.xlarge | ml.c4.2xlarge | ml.c4.4xlarge | ml.c4.8xlarge | ml.p2.xlarge | ml.p2.8xlarge | ml.p2.16xlarge | ml.p4d.24xlarge | ml.p4de.24xlarge | ml.p5.48xlarge | ml.c5.xlarge | ml.c5.2xlarge | ml.c5.4xlarge | ml.c5.9xlarge | ml.c5.18xlarge | ml.c5n.xlarge | ml.c5n.2xlarge | ml.c5n.4xlarge | ml.c5n.9xlarge | ml.c5n.18xlarge | ml.g5.xlarge | ml.g5.2xlarge | ml.g5.4xlarge | ml.g5.8xlarge | ml.g5.16xlarge | ml.g5.12xlarge | ml.g5.24xlarge | ml.g5.48xlarge | ml.trn1.2xlarge | ml.trn1.32xlarge | ml.trn1n.32xlarge | ml.m6i.large | ml.m6i.xlarge | ml.m6i.2xlarge | ml.m6i.4xlarge | ml.m6i.8xlarge | ml.m6i.12xlarge | ml.m6i.16xlarge | ml.m6i.24xlarge | ml.m6i.32xlarge | ml.c6i.xlarge | ml.c6i.2xlarge | ml.c6i.8xlarge | ml.c6i.4xlarge | ml.c6i.12xlarge | ml.c6i.16xlarge | ml.c6i.24xlarge | ml.c6i.32xlarge | ml.r5d.large | ml.r5d.xlarge | ml.r5d.2xlarge | ml.r5d.4xlarge | ml.r5d.8xlarge | ml.r5d.12xlarge | ml.r5d.16xlarge | ml.r5d.24xlarge | ml.t3.medium | ml.t3.large | ml.t3.xlarge | ml.t3.2xlarge | ml.r5.large | ml.r5.xlarge | ml.r5.2xlarge | ml.r5.4xlarge | ml.r5.8xlarge | ml.r5.12xlarge | ml.r5.16xlarge | ml.r5.24xlarge | ml.c7i.large | ml.c7i.xlarge | ml.c7i.2xlarge | ml.c7i.4xlarge | ml.c7i.8xlarge | ml.c7i.12xlarge | ml.c7i.16xlarge | ml.c7i.24xlarge | ml.c7i.48xlarge | ml.m7i.large | ml.m7i.xlarge | ml.m7i.2xlarge | ml.m7i.4xlarge | ml.m7i.8xlarge | ml.m7i.12xlarge | ml.m7i.16xlarge | ml.m7i.24xlarge | ml.m7i.48xlarge | ml.r7i.large

| ml.r7i.xlarge | ml.r7i.2xlarge | ml.r7i.4xlarge | ml.r7i.8xlarge |  
ml.r7i.12xlarge | ml.r7i.16xlarge | ml.r7i.24xlarge | ml.r7i.48xlarge  
| ml.g6.xlarge | ml.g6.2xlarge | ml.g6.4xlarge | ml.g6.8xlarge |  
ml.g6.12xlarge | ml.g6.16xlarge | ml.g6.24xlarge | ml.g6.48xlarge |  
ml.g6e.xlarge | ml.g6e.2xlarge | ml.g6e.4xlarge | ml.g6e.8xlarge |  
ml.g6e.12xlarge | ml.g6e.16xlarge | ml.g6e.24xlarge | ml.g6e.48xlarge  
| ml.p5en.48xlarge | ml.p3.2xlarge | ml.p3.8xlarge | ml.p3.16xlarge |  
ml.p3dn.24xlarge

Required: Yes

### **volumeSizeInGB**

The volume size of the instance that is used to train the model. Please see [EC2 volume limit](#) for volume size limitations on different instance types.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 8192.

Required: Yes

### **instanceCount**

The number of resources that are used to train the model.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 5.

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# S3ConfigMap

Provides information about an Amazon S3 bucket and path.

## Contents

### s3Uri

The Amazon S3 location URI.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1285.

Pattern: s3://.+

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StatusDetails

Details about the status of a resource.

## Contents

### message

The error message that was returned. The message is intended for human consumption and can change at any time. Use the `statusCode` for programmatic error handling.

Type: String

Required: No

### statusCode

The status code that was returned. The status code is intended for programmatic error handling. Clean Rooms ML will not change the status code for existing error conditions.

Type: String

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# StoppingCondition

The criteria used to stop model training.

## Contents

### maxRuntimeInSeconds

The maximum amount of time, in seconds, that model training can run before it is terminated.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 2419200.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SyntheticDataColumnProperties

Properties that define how a specific data column should be handled during synthetic data generation, including its name, type, and role in predictive modeling.

## Contents

### columnName

The name of the data column as it appears in the dataset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 128.

Pattern: `[a-z0-9_]{0,128}([a-z0-9_]{1,127}){0,1}`

Required: Yes

### columnType

The data type of the column, which determines how the synthetic data generation algorithm processes and synthesizes values for this column.

Type: String

Valid Values: CATEGORICAL | NUMERICAL

Required: Yes

### isPredictiveValue

Indicates if this column contains predictive values that should be treated as target variables in machine learning models. This affects how the synthetic data generation preserves statistical relationships.

Type: Boolean

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SyntheticDataConfiguration

Configuration settings for synthetic data generation, including the parameters that control data synthesis and the evaluation scores that measure the quality and privacy characteristics of the generated synthetic data.

## Contents

### **syntheticDataParameters**

The parameters that control how synthetic data is generated, including privacy settings, column classifications, and other configuration options that affect the data synthesis process.

Type: [MLSyntheticDataParameters](#) object

Required: Yes

### **syntheticDataEvaluationScores**

Evaluation scores that assess the quality and privacy characteristics of the generated synthetic data, providing metrics on data utility and privacy preservation.

Type: [SyntheticDataEvaluationScores](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# SyntheticDataEvaluationScores

Comprehensive evaluation metrics for synthetic data that assess both the utility of the generated data for machine learning tasks and its privacy preservation characteristics.

## Contents

### dataPrivacyScores

Privacy-specific evaluation scores that measure how well the synthetic data protects individual privacy, including assessments of potential privacy risks such as membership inference attacks.

Type: [DataPrivacyScores](#) object

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrainedModelArtifactMaxSize

Specifies the maximum size limit for trained model artifacts. This configuration helps control storage costs and ensures that trained models don't exceed specified size constraints. The size limit applies to the total size of all artifacts produced by the training job.

## Contents

### unit

The unit of measurement for the maximum artifact size. Valid values include common storage units such as bytes, kilobytes, megabytes, gigabytes, and terabytes.

Type: String

Valid Values: GB

Required: Yes

### value

The numerical value for the maximum artifact size limit. This value is interpreted according to the specified unit.

Type: Double

Valid Range: Minimum value of 0.01. Maximum value of 10.0.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrainedModelExportOutputConfiguration

Information about the output of the trained model export job.

## Contents

### members

The members that will received the exported trained model output.

Type: Array of [TrainedModelExportReceiverMember](#) objects

Array Members: Fixed number of 1 item.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrainedModelExportReceiverMember

Provides information about the member who will receive trained model exports.

## Contents

### accountId

The account ID of the member who will receive trained model exports.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]{12}

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrainedModelExportsConfigurationPolicy

Information about how the trained model exports are configured.

## Contents

### filesToExport

The files that are exported during the trained model export job.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Valid Values: MODEL | OUTPUT

Required: Yes

### maxSize

The maximum size of the data that can be exported.

Type: [TrainedModelExportsMaxSize](#) object

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrainedModelExportsMaxSize

The maximum size of the trained model metrics that can be exported. If the trained model metrics dataset is larger than this value, it will not be exported.

## Contents

### unit

The unit of measurement for the data size.

Type: String

Valid Values: GB

Required: Yes

### value

The maximum size of the dataset to export.

Type: Double

Valid Range: Minimum value of 0.01. Maximum value of 10.0.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrainedModelInferenceJobsConfigurationPolicy

Provides configuration information for the trained model inference job.

## Contents

### containerLogs

The logs container for the trained model inference job.

Type: Array of [LogsConfigurationPolicy](#) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

### maxOutputSize

The maximum allowed size of the output of the trained model inference job.

Type: [TrainedModelInferenceMaxOutputSize](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrainedModelInferenceJobSummary

Provides information about the trained model inference job.

## Contents

### **collaborationIdentifier**

The collaboration ID of the collaboration that contains the trained model inference job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **createTime**

The time at which the trained model inference job was created.

Type: Timestamp

Required: Yes

### **membershipIdentifier**

The membership ID of the membership that contains the trained model inference job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the trained model inference job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

## **outputConfiguration**

The output configuration information of the trained model job.

Type: [InferenceOutputConfiguration](#) object

Required: Yes

## **status**

The status of the trained model inference job.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | CANCEL\_PENDING | CANCEL\_IN\_PROGRESS | CANCEL\_FAILED | INACTIVE

Required: Yes

## **trainedModelArn**

The Amazon Resource Name (ARN) of the trained model that is used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:aws[-a-z]\*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9\_/.]+

Required: Yes

## **trainedModelInferenceJobArn**

The Amazon Resource Name (ARN) of the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model-inference-job/[-a-zA-Z0-9_/.]+`

Required: Yes

### **updateTime**

The most recent time at which the trained model inference job was updated.

Type: Timestamp

Required: Yes

### **configuredModelAlgorithmAssociationArn**

The Amazon Resource Name (ARN) of the configured model algorithm association that is used for the trained model inference job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: No

### **description**

The description of the trained model inference job.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### **logsStatus**

The log status of the trained model inference job.

Type: String

Valid Values: PUBLISH\_SUCCEEDED | PUBLISH\_FAILED

Required: No

### **logsStatusDetails**

Details about the log status for the trained model inference job.

Type: String

Required: No

### **metricsStatus**

The metric status of the trained model inference job.

Type: String

Valid Values: PUBLISH\_SUCCEEDED | PUBLISH\_FAILED

Required: No

### **metricsStatusDetails**

Details about the metrics status for the trained model inference job.

Type: String

Required: No

### **trainedModelVersionIdentifier**

The version identifier of the trained model that was used for inference in this job.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrainedModelInferenceMaxOutputSize

Information about the maximum output size for a trained model inference job.

## Contents

### unit

The measurement unit to use.

Type: String

Valid Values: GB

Required: Yes

### value

The maximum output size value.

Type: Double

Valid Range: Minimum value of 0.01. Maximum value of 50.0.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrainedModelsConfigurationPolicy

The configuration policy for the trained models.

## Contents

### containerLogs

The container for the logs of the trained model.

Type: Array of [LogsConfigurationPolicy](#) objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

### containerMetrics

The container for the metrics of the trained model.

Type: [MetricsConfigurationPolicy](#) object

Required: No

### maxArtifactSize

The maximum size limit for trained model artifacts as defined in the configuration policy. This setting helps enforce consistent size limits across trained models in the collaboration.

Type: [TrainedModelArtifactMaxSize](#) object

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# TrainedModelSummary

Summary information about the trained model.

## Contents

### **collaborationIdentifier**

The collaboration ID of the collaboration that contains the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **configuredModelAlgorithmAssociationArn**

The Amazon Resource Name (ARN) of the configured model algorithm association that was used to create this trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/configured-model-algorithm-association/[-a-zA-Z0-9_/.]+`

Required: Yes

### **createTime**

The time at which the trained model was created.

Type: Timestamp

Required: Yes

### **membershipIdentifier**

The membership ID of the member that created the trained model.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

### **name**

The name of the trained model.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `(?!\\s*$)[\\u0020-\\uD7FF\\uE000-\\uFFFF\\uD800\\uDBFF-\\uDC00\\uDFFF\\t]*`

Required: Yes

### **status**

The status of the trained model.

Type: String

Valid Values: CREATE\_PENDING | CREATE\_IN\_PROGRESS | CREATE\_FAILED | ACTIVE | DELETE\_PENDING | DELETE\_IN\_PROGRESS | DELETE\_FAILED | INACTIVE | CANCEL\_PENDING | CANCEL\_IN\_PROGRESS | CANCEL\_FAILED

Required: Yes

### **trainedModelArn**

The Amazon Resource Name (ARN) of the trained model.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws[-a-z]*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:membership/[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}/trained-model/[-a-zA-Z0-9_/.]+`

Required: Yes

### **updateTime**

The most recent time at which the trained model was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the trained model.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

### **incrementalTrainingDataChannels**

Information about the incremental training data channels used to create this version of the trained model.

Type: Array of [IncrementalTrainingDataChannelOutput](#) objects

Array Members: Fixed number of 1 item.

Required: No

### **versionIdentifier**

The version identifier of this trained model version.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

## **See Also**

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

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

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# TrainingDatasetSummary

Provides information about the training dataset.

## Contents

### createTime

The time at which the training dataset was created.

Type: Timestamp

Required: Yes

### name

The name of the training dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: (?!\s\*\$)[\u0020-\uD7FF\uE000-\uFFFD\uD800\uDBFF-\uDC00\uDFFF\t]\*

Required: Yes

### status

The status of the training dataset.

Type: String

Valid Values: ACTIVE

Required: Yes

### trainingDatasetArn

The Amazon Resource Name (ARN) of the training dataset.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:aws[-a-z]\*:cleanrooms-ml:[-a-z0-9]+:[0-9]{12}:training-dataset/[-a-zA-Z0-9\_/.]+

Required: Yes

### **updateTime**

The most recent time at which the training dataset was updated.

Type: Timestamp

Required: Yes

### **description**

The description of the training dataset.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\u0020-\uD7FF\uE000-\uFFFF\uD800\uDBFF-\uDC00\uDFFF\t\r\n]*`

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# WorkerComputeConfiguration

Configuration information about the compute workers that perform the transform job.

## Contents

### number

The number of compute workers that are used.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 400.

Required: No

### properties

The configuration properties for the worker compute environment. These properties allow you to customize the compute settings for your Clean Rooms workloads.

Type: [WorkerComputeConfigurationProperties](#) object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

### type

The instance type of the compute workers that are used.

Type: String

Valid Values: CR.1X | CR.4X

Required: No

## See Also

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

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

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# WorkerComputeConfigurationProperties

The configuration properties for the worker compute environment. These properties allow you to customize the compute settings for your Clean Rooms workloads.

## Contents

### Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

## spark

The Spark configuration properties for SQL workloads. This map contains key-value pairs that configure Apache Spark settings to optimize performance for your data processing jobs. You can specify up to 50 Spark properties, with each key being 1-200 characters and each value being 0-500 characters. These properties allow you to adjust compute capacity for large datasets and complex workloads.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 200.

Value Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: *access\_key/YYYYMMDD/region/service/aws4\_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

## X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

**Required: Conditional**

# Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

## AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

## ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

## IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

## InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

## MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestAbortedException**

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

**RequestEntityTooLargeException**

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

**RequestTimeoutException**

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

## **UnknownOperationException**

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

## **UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

## **ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400