
Amazon Macie

API Reference

API Version 2017-12-19



Amazon Macie: API Reference

Copyright © 2018 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon. All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.

Table of Contents

Welcome	1
Actions	2
AssociateMemberAccount	3
Request Syntax	3
Request Parameters	3
Response Elements	3
Errors	3
See Also	4
AssociateS3Resources	5
Request Syntax	5
Request Parameters	5
Response Syntax	5
Response Elements	6
Errors	6
See Also	6
DisassociateMemberAccount	8
Request Syntax	8
Request Parameters	8
Response Elements	8
Errors	8
See Also	8
DisassociateS3Resources	10
Request Syntax	10
Request Parameters	10
Response Syntax	10
Response Elements	11
Errors	11
See Also	11
ListMemberAccounts	12
Request Syntax	12
Request Parameters	12
Response Syntax	12
Response Elements	12
Errors	13
See Also	13
ListS3Resources	14
Request Syntax	14
Request Parameters	14
Response Syntax	14
Response Elements	15
Errors	15
See Also	15
UpdateS3Resources	17
Request Syntax	17
Request Parameters	17
Response Syntax	17
Response Elements	18
Errors	18
See Also	18
Data Types	19
ClassificationType	20
Contents	20
See Also	20
ClassificationTypeUpdate	21

Contents	21
See Also	21
FailedS3Resource	22
Contents	22
See Also	22
MemberAccount	23
Contents	23
See Also	23
S3Resource	24
Contents	24
See Also	24
S3ResourceClassification	25
Contents	25
See Also	25
S3ResourceClassificationUpdate	26
Contents	26
See Also	26
Common Parameters	27
Common Errors	29

Welcome

Amazon Macie is a security service that uses machine learning to automatically discover, classify, and protect sensitive data in AWS. Macie recognizes sensitive data such as personally identifiable information (PII) or intellectual property, and provides you with dashboards and alerts that give visibility into how this data is being accessed or moved. For more information, see the [Macie User Guide](#).

This document was last published on November 19, 2018.

Actions

The following actions are supported:

- [AssociateMemberAccount](#) (p. 3)
- [AssociateS3Resources](#) (p. 5)
- [DisassociateMemberAccount](#) (p. 8)
- [DisassociateS3Resources](#) (p. 10)
- [ListMemberAccounts](#) (p. 12)
- [ListS3Resources](#) (p. 14)
- [UpdateS3Resources](#) (p. 17)

AssociateMemberAccount

Associates a specified AWS account with Amazon Macie as a member account.

Request Syntax

```
{  
  "memberAccountId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 27\)](#).

The request accepts the following data in JSON format.

memberAccountId (p. 3)

The ID of the AWS account that you want to associate with Amazon Macie as a member account.

Type: String

Pattern: [0-9]{12}

Required: Yes

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

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error code describes the limit exceeded.

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

AssociateS3Resources

Associates specified S3 resources with Amazon Macie for monitoring and data classification. If `memberAccountId` isn't specified, the action associates specified S3 resources with Macie for the current master account. If `memberAccountId` is specified, the action associates specified S3 resources with Macie for the specified member account.

Request Syntax

```
{
  "memberAccountId": "string",
  "s3Resources": [
    {
      "bucketName": "string",
      "classificationType": {
        "continuous": "string",
        "oneTime": "string"
      },
      "prefix": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 27).

The request accepts the following data in JSON format.

`memberAccountId` (p. 5)

The ID of the Amazon Macie member account whose resources you want to associate with Macie.

Type: String

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

Required: No

`s3Resources` (p. 5)

The S3 resources that you want to associate with Amazon Macie for monitoring and data classification.

Type: Array of [S3ResourceClassification](#) (p. 25) objects

Required: Yes

Response Syntax

```
{
  "failedS3Resources": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "failedItem": {
```

```
        "bucketName": "string",  
        "prefix": "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.

failedS3Resources (p. 5)

S3 resources that couldn't be associated with Amazon Macie. An error code and an error message are provided for each failed item.

Type: Array of [FailedS3Resource](#) (p. 22) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 29).

AccessDeniedException

You do not have required permissions to access the requested resource.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

HTTP Status Code: 400

LimitExceededException

The request was rejected because it attempted to create resources beyond the current AWS account limits. The error code describes the limit exceeded.

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

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

DisassociateMemberAccount

Removes the specified member account from Amazon Macie.

Request Syntax

```
{  
  "memberAccountId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 27\)](#).

The request accepts the following data in JSON format.

memberAccountId (p. 8)

The ID of the member account that you want to remove from Amazon Macie.

Type: String

Pattern: [0-9]{12}

Required: Yes

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

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

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](#)

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

DisassociateS3Resources

Removes specified S3 resources from being monitored by Amazon Macie. If `memberAccountId` isn't specified, the action removes specified S3 resources from Macie for the current master account. If `memberAccountId` is specified, the action removes specified S3 resources from Macie for the specified member account.

Request Syntax

```
{
  "associatedS3Resources": [
    {
      "bucketName": "string",
      "prefix": "string"
    }
  ],
  "memberAccountId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 27).

The request accepts the following data in JSON format.

associatedS3Resources (p. 10)

The S3 resources (buckets or prefixes) that you want to remove from being monitored and classified by Amazon Macie.

Type: Array of [S3Resource](#) (p. 24) objects

Required: Yes

memberAccountId (p. 10)

The ID of the Amazon Macie member account whose resources you want to remove from being monitored by Amazon Macie.

Type: String

Pattern: [0-9]{12}

Required: No

Response Syntax

```
{
  "failedS3Resources": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "failedItem": {
        "bucketName": "string",
        "prefix": "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.

failedS3Resources (p. 10)

S3 resources that couldn't be removed from being monitored and classified by Amazon Macie. An error code and an error message are provided for each failed item.

Type: Array of [FailedS3Resource](#) (p. 22) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 29).

AccessDeniedException

You do not have required permissions to access the requested resource.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

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

ListMemberAccounts

Lists all Amazon Macie member accounts for the current Amazon Macie master account.

Request Syntax

```
{  
  "maxResults": number,  
  "nextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 27).

The request accepts the following data in JSON format.

maxResults (p. 12)

Use this parameter to indicate the maximum number of items that you want in the response. The default value is 250.

Type: Integer

Valid Range: Maximum value of 250.

Required: No

nextToken (p. 12)

Use this parameter when paginating results. Set the value of this parameter to null on your first call to the ListMemberAccounts action. Subsequent calls to the action fill nextToken in the request with the value of nextToken from the previous response to continue listing data.

Type: String

Length Constraints: Maximum length of 500.

Required: No

Response Syntax

```
{  
  "memberAccounts": [  
    {  
      "accountId": "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.

memberAccounts (p. 12)

A list of the Amazon Macie member accounts returned by the action. The current master account is also included in this list.

Type: Array of [MemberAccount \(p. 23\)](#) objects

nextToken (p. 12)

When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the nextToken parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

Length Constraints: Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 29\)](#).

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

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

ListS3Resources

Lists all the S3 resources associated with Amazon Macie. If `memberAccountId` isn't specified, the action lists the S3 resources associated with Amazon Macie for the current master account. If `memberAccountId` is specified, the action lists the S3 resources associated with Amazon Macie for the specified member account.

Request Syntax

```
{  
  "maxResults": number,  
  "memberAccountId": "string",  
  "nextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 27\)](#).

The request accepts the following data in JSON format.

maxResults (p. 14)

Use this parameter to indicate the maximum number of items that you want in the response. The default value is 250.

Type: Integer

Valid Range: Maximum value of 250.

Required: No

memberAccountId (p. 14)

The Amazon Macie member account ID whose associated S3 resources you want to list.

Type: String

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

Required: No

nextToken (p. 14)

Use this parameter when paginating results. Set its value to null on your first call to the `ListS3Resources` action. Subsequent calls to the action fill `nextToken` in the request with the value of `nextToken` from the previous response to continue listing data.

Type: String

Length Constraints: Maximum length of 500.

Required: No

Response Syntax

```
{
```

```
"nextToken": "string",
"s3Resources": [
  {
    "bucketName": "string",
    "classificationType": {
      "continuous": "string",
      "oneTime": "string"
    },
    "prefix": "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 (p. 14)

When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the nextToken parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

Length Constraints: Maximum length of 500.

s3Resources (p. 14)

A list of the associated S3 resources returned by the action.

Type: Array of [S3ResourceClassification](#) (p. 25) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 29).

AccessDeniedException

You do not have required permissions to access the requested resource.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

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

UpdateS3Resources

Updates the classification types for the specified S3 resources. If `memberAccountId` isn't specified, the action updates the classification types of the S3 resources associated with Amazon Macie for the current master account. If `memberAccountId` is specified, the action updates the classification types of the S3 resources associated with Amazon Macie for the specified member account.

Request Syntax

```
{
  "memberAccountId": "string",
  "s3ResourcesUpdate": [
    {
      "bucketName": "string",
      "classificationTypeUpdate": {
        "continuous": "string",
        "oneTime": "string"
      },
      "prefix": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 27).

The request accepts the following data in JSON format.

`memberAccountId` (p. 17)

The AWS ID of the Amazon Macie member account whose S3 resources' classification types you want to update.

Type: String

Pattern: [0-9]{12}

Required: No

`s3ResourcesUpdate` (p. 17)

The S3 resources whose classification types you want to update.

Type: Array of [S3ResourceClassificationUpdate](#) (p. 26) objects

Required: Yes

Response Syntax

```
{
  "failedS3Resources": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "failedItem": {
```

```
        "bucketName": "string",  
        "prefix": "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.

failedS3Resources (p. 17)

The S3 resources whose classification types can't be updated. An error code and an error message are provided for each failed item.

Type: Array of [FailedS3Resource](#) (p. 22) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 29).

AccessDeniedException

You do not have required permissions to access the requested resource.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

InvalidInputException

The request was rejected because an invalid or out-of-range value was supplied for an input parameter.

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

Data Types

The Amazon Macie 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:

- [ClassificationType](#) (p. 20)
- [ClassificationTypeUpdate](#) (p. 21)
- [FailedS3Resource](#) (p. 22)
- [MemberAccount](#) (p. 23)
- [S3Resource](#) (p. 24)
- [S3ResourceClassification](#) (p. 25)
- [S3ResourceClassificationUpdate](#) (p. 26)

ClassificationType

The classification type that Amazon Macie applies to the associated S3 resources.

Contents

continuous

A continuous classification of the objects that are added to a specified S3 bucket. Amazon Macie begins performing continuous classification after a bucket is successfully associated with Amazon Macie.

Type: String

Valid Values: `FULL`

Required: Yes

oneTime

A one-time classification of all of the existing objects in a specified S3 bucket.

Type: String

Valid Values: `FULL` | `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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ClassificationTypeUpdate

The classification type that Amazon Macie applies to the associated S3 resources. At least one of the classification types (oneTime or continuous) must be specified.

Contents

continuous

A continuous classification of the objects that are added to a specified S3 bucket. Amazon Macie begins performing continuous classification after a bucket is successfully associated with Amazon Macie.

Type: String

Valid Values: `FULL`

Required: No

oneTime

A one-time classification of all of the existing objects in a specified S3 bucket.

Type: String

Valid Values: `FULL` | `NONE`

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

FailedS3Resource

Includes details about the failed S3 resources.

Contents

errorCode

The status code of a failed item.

Type: String

Length Constraints: Maximum length of 10.

Required: No

errorMessage

The error message of a failed item.

Type: String

Length Constraints: Maximum length of 10000.

Required: No

failedItem

The failed S3 resources.

Type: [S3Resource](#) (p. 24) 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 Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

MemberAccount

Contains information about the Amazon Macie member account.

Contents

accountId

The AWS account ID of the Amazon Macie member account.

Type: String

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

S3Resource

Contains information about the S3 resource. This data type is used as a request parameter in the `DisassociateS3Resources` action and can be used as a response parameter in the `AssociateS3Resources` and `UpdateS3Resources` actions.

Contents

bucketName

The name of the S3 bucket.

Type: String

Length Constraints: Maximum length of 500.

Required: Yes

prefix

The prefix of the S3 bucket.

Type: String

Length Constraints: Maximum length of 10000.

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

S3ResourceClassification

The S3 resources that you want to associate with Amazon Macie for monitoring and data classification. This data type is used as a request parameter in the `AssociateS3Resources` action and a response parameter in the `ListS3Resources` action.

Contents

bucketName

The name of the S3 bucket that you want to associate with Amazon Macie.

Type: String

Length Constraints: Maximum length of 500.

Required: Yes

classificationType

The classification type that you want to specify for the resource associated with Amazon Macie.

Type: [ClassificationType](#) (p. 20) object

Required: Yes

prefix

The prefix of the S3 bucket that you want to associate with Amazon Macie.

Type: String

Length Constraints: Maximum length of 10000.

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

S3ResourceClassificationUpdate

The S3 resources whose classification types you want to update. This data type is used as a request parameter in the UpdateS3Resources action.

Contents

bucketName

The name of the S3 bucket whose classification types you want to update.

Type: String

Length Constraints: Maximum length of 500.

Required: Yes

classificationTypeUpdate

The classification type that you want to update for the resource associated with Amazon Macie.

Type: [ClassificationTypeUpdate \(p. 21\)](#) object

Required: Yes

prefix

The prefix of the S3 bucket whose classification types you want to update.

Type: String

Length Constraints: Maximum length of 10000.

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

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 [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

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 [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

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'THHMMSS'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 [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400