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# Amazon Macie Classic

## API Reference

API Version 2017-12-19



## **Amazon Macie Classic: API Reference**

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Amazon Macie Classic has been discontinued and is no longer available. A new Amazon Macie is now available with significant design improvements and additional features, at a lower price and in most AWS Regions. To learn about the new Amazon Macie, see the [Amazon Macie User Guide](#).

# Welcome

Amazon Macie Classic has been discontinued and is no longer available.

A new Amazon Macie is now available with significant design improvements and additional features, at a lower price and in most AWS Regions. We encourage you to take advantage of the new and improved features, and benefit from the reduced cost. To learn about features and pricing for the new Macie, see [Amazon Macie](#). To learn how to use the new Macie, see the [Amazon Macie User Guide](#).

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# 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

(Discontinued) Associates a specified AWS account with Amazon Macie Classic as a member account.

## Request Syntax

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 28\)](#).

The request accepts the following data in JSON format.

### **memberAccountId (p. 3)**

(Discontinued) The ID of the AWS account that you want to associate with Amazon Macie Classic 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 \(p. 30\)](#).

### **InternalException**

(Discontinued) Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

HTTP Status Code: 400

### **LimitExceededException**

(Discontinued) The request was rejected because it attempted to create resources beyond the current AWS account quotas. The error code describes the quota 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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## AssociateS3Resources

(Discontinued) Associates specified S3 resources with Amazon Macie Classic for monitoring and data classification. If `memberAccountId` isn't specified, the action associates specified S3 resources with Macie Classic for the current Macie Classic administrator account. If `memberAccountId` is specified, the action associates specified S3 resources with Macie Classic 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 \(p. 28\)](#).

The request accepts the following data in JSON format.

#### **memberAccountId (p. 5)**

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

Type: String

Pattern: [0-9]{12}

Required: No

#### **s3Resources (p. 5)**

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

Type: Array of [S3ResourceClassification \(p. 26\)](#) 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 \(p. 5\)](#)

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

Type: Array of [FailedS3Resource \(p. 23\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 30\)](#).

### **AccessDeniedException**

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

HTTP Status Code: 400

### **InternalException**

(Discontinued) Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

HTTP Status Code: 400

### **LimitExceededException**

(Discontinued) The request was rejected because it attempted to create resources beyond the current AWS account quotas. The error code describes the quota 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 V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DisassociateMemberAccount

(Discontinued) Removes the specified member account from Amazon Macie Classic.

## Request Syntax

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 28\)](#).

The request accepts the following data in JSON format.

### **memberAccountId (p. 8)**

(Discontinued) The ID of the member account that you want to remove from Amazon Macie Classic.

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 \(p. 30\)](#).

### **InternalException**

(Discontinued) Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

# DisassociateS3Resources

(Discontinued) Removes specified S3 resources from being monitored by Amazon Macie Classic. If `memberAccountId` isn't specified, the action removes specified S3 resources from Macie Classic for the current Macie Classic administrator account. If `memberAccountId` is specified, the action removes specified S3 resources from Macie Classic 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. 28).

The request accepts the following data in JSON format.

### **associatedS3Resources** (p. 10)

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

Type: Array of [S3Resource](#) (p. 25) objects

Required: Yes

### **memberAccountId** (p. 10)

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

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)

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

Type: Array of [FailedS3Resource](#) (p. 23) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 30).

### **AccessDeniedException**

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

HTTP Status Code: 400

### **InternalException**

(Discontinued) Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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



# ListMemberAccounts

(Discontinued) Lists all Amazon Macie Classic member accounts for the current Macie Classic administrator account.

## Request Syntax

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

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 28\)](#).

The request accepts the following data in JSON format.

### [maxResults \(p. 12\)](#)

(Discontinued) 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 \(p. 12\)](#)

(Discontinued) 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)**

(Discontinued) A list of the Amazon Macie Classic member accounts returned by the action. The current Macie Classic administrator account is also included in this list.

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

#### **nextToken (p. 12)**

(Discontinued) 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 \(p. 30\)](#).

#### **InternalException**

(Discontinued) Internal server error.

HTTP Status Code: 500

#### **InvalidInputException**

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

## ListS3Resources

(Discontinued) Lists all the S3 resources associated with Amazon Macie Classic. If `memberAccountId` isn't specified, the action lists the S3 resources associated with Macie Classic for the current Macie Classic administrator account. If `memberAccountId` is specified, the action lists the S3 resources associated with Macie Classic 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. 28).

The request accepts the following data in JSON format.

#### **maxResults** (p. 14)

(Discontinued) 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)

(Discontinued) The Amazon Macie Classic member account ID whose associated S3 resources you want to list.

Type: String

Pattern: [0-9]{12}

Required: No

#### **nextToken** (p. 14)

(Discontinued) 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)

(Discontinued) 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)

(Discontinued) A list of the associated S3 resources returned by the action.

Type: Array of [S3ResourceClassification](#) (p. 26) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 30).

### **AccessDeniedException**

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

HTTP Status Code: 400

### **InternalException**

(Discontinued) Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

# UpdateS3Resources

(Discontinued) 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 Classic for the current Macie Classic administrator account. If `memberAccountId` is specified, the action updates the classification types of the S3 resources associated with Macie Classic 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. 28).

The request accepts the following data in JSON format.

### **memberAccountId** (p. 17)

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

Type: String

Pattern: [0-9]{12}

Required: No

### **s3ResourcesUpdate** (p. 17)

(Discontinued) The S3 resources whose classification types you want to update.

Type: Array of [S3ResourceClassificationUpdate](#) (p. 27) 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)

(Discontinued) 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. 23) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 30).

### **AccessDeniedException**

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

HTTP Status Code: 400

### **InternalException**

(Discontinued) Internal server error.

HTTP Status Code: 500

### **InvalidInputException**

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

- [AWS SDK for Ruby V3](#)



# 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. 21)
- [ClassificationTypeUpdate](#) (p. 22)
- [FailedS3Resource](#) (p. 23)
- [MemberAccount](#) (p. 24)
- [S3Resource](#) (p. 25)
- [S3ResourceClassification](#) (p. 26)
- [S3ResourceClassificationUpdate](#) (p. 27)

# ClassificationType

(Discontinued) The classification type that Amazon Macie Classic applies to the associated S3 resources.

## Contents

### **continuous**

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

Type: String

Valid Values: FULL

Required: Yes

### **oneTime**

(Discontinued) 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 V2](#)
- [AWS SDK for Ruby V3](#)

# ClassificationTypeUpdate

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

## Contents

### **continuous**

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

Type: String

Valid Values: FULL

Required: No

### **oneTime**

(Discontinued) 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 V2](#)
- [AWS SDK for Ruby V3](#)

# FailedS3Resource

(Discontinued) Includes details about the failed S3 resources.

## Contents

### **errorCode**

(Discontinued) The status code of a failed item.

Type: String

Length Constraints: Maximum length of 10.

Required: No

### **errorMessage**

(Discontinued) The error message of a failed item.

Type: String

Length Constraints: Maximum length of 10000.

Required: No

### **failedItem**

(Discontinued) The failed S3 resources.

Type: [S3Resource \(p. 25\)](#) 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 V2](#)
- [AWS SDK for Ruby V3](#)

# MemberAccount

(Discontinued) Contains information about the Amazon Macie Classic member account.

## Contents

### **accountId**

(Discontinued) The AWS account ID of the Amazon Macie Classic 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 V2](#)
- [AWS SDK for Ruby V3](#)

## S3Resource

(Discontinued) 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**

(Discontinued) The name of the S3 bucket.

Type: String

Length Constraints: Maximum length of 500.

Required: Yes

#### **prefix**

(Discontinued) 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 V2](#)
- [AWS SDK for Ruby V3](#)

## S3ResourceClassification

(Discontinued) The S3 resources that you want to associate with Amazon Macie Classic 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**

(Discontinued) The name of the S3 bucket that you want to associate with Amazon Macie Classic.

Type: String

Length Constraints: Maximum length of 500.

Required: Yes

#### **classificationType**

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

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

Required: Yes

#### **prefix**

(Discontinued) The prefix of the S3 bucket that you want to associate with Amazon Macie Classic.

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 V2](#)
- [AWS SDK for Ruby V3](#)

# S3ResourceClassificationUpdate

(Discontinued) 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**

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

Type: String

Length Constraints: Maximum length of 500.

Required: Yes

### **classificationTypeUpdate**

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

Type: [ClassificationTypeUpdate \(p. 22\)](#) object

Required: Yes

### **prefix**

(Discontinued) 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 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 [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

**NotAuthorized**

You do not have permission to perform this action.

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