
AWS Data Exchange

API Reference



AWS Data Exchange: API Reference

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Welcome

Welcome to the AWS Data Exchange API Reference. AWS Data Exchange is a service that makes it easy for AWS customers to exchange data in the cloud. You can use the AWS Data Exchange APIs create, update, manage, and access file-based data set in the AWS Cloud.

As a subscriber, you can view and access the data sets that you have an entitlement to through a subscription. You can use the APIS to download or copy your entitled data sets to Amazon S3 for use across a variety of AWS analytics and machine learning services.

As a provider, you can create and manage your data sets that you would like to publish to a product. Being able to package and provide your data sets into products requires a few steps to determine eligibility.

A data set is a collection of data that can be changed or updated over time. Data sets can be updated using revisions, which represent a new version or incremental change to a data set. A revision contains one or more assets. An asset in AWS Data Exchange is a piece of data that can be stored as an Amazon S3 object. The asset can be a structured data file, an image file, or some other data file. Jobs are asynchronous import or export operations used to create or copy assets.

To learn more about these and other AWS Data Exchange concepts, including procedures, best practices, and AWS Marketplace integration, see the [AWS Data Exchange User Guide](#).

Data Sets and Product Details

The AWS Data Exchange APIs allow you to manage and interact with data sets. You can perform product publishing and product subscription operations through the AWS Marketplace Catalog API or the AWS Data Exchange console. For more information, see the [AWS Data Exchange User Guide](#).

Service Limits

For information about the limits for using AWS Data Exchange, see [AWS Data Exchange Limits](#) in the [AWS Data Exchange User Guide](#).

API Access Control

You use [AWS Identity and Access Management \(IAM\)](#) to create IAM roles and assign policies that grant limited permissions to end users. The policies define the actions the role can take on your data sets, revisions, assets, and associated jobs in the AWS Data Exchange API. For example, you can define roles such as engineering, marketing, and pricing. A user in your organization who has been added to the engineering role might be granted permissions to import an asset from Amazon S3, but cannot finalize a revision for your data set.

For more information about AWS Data Exchange permissions, including managed policies, and a permissions reference for the AWS Data Exchange actions and resources, see [Identity and Access Management in AWS Data Exchange](#) in the [AWS Data Exchange User Guide](#).

Endpoints and AWS Regions

The following AWS Regions are endpoints are supported for AWS Data Exchange:

- US East (N. Virginia) – `dataexchange.us-east-1.amazonaws.com`
- US East (Ohio) – `dataexchange.us-east-2.amazonaws.com`
- US West (N. California) – `dataexchange.us-west-1.amazonaws.com`
- US West (Oregon) – `dataexchange.us-west-2.amazonaws.com`
- Asia Pacific (Tokyo) – `dataexchange.ap-northeast-1.amazonaws.com`
- Asia Pacific (Seoul) – `dataexchange.ap-northeast-2.amazonaws.com`
- Asia Pacific (Singapore) – `dataexchange.ap-southeast-1.amazonaws.com`
- Asia Pacific (Sydney) – `dataexchange.ap-southeast-2.amazonaws.com`
- Europe (Frankfurt) – `dataexchange.eu-central-1.amazonaws.com`
- Europe (Ireland) – `dataexchange.eu-west-1.amazonaws.com`
- Europe (London) – `dataexchange.eu-west-2.amazonaws.com`

Operations

The AWS Data Exchange REST API includes the following operations.

- [CancelJob \(p. 77\)](#)

This operation cancels a job. Jobs can be cancelled only when they are in the `WAITING` state.

- [CreateDataSet \(p. 9\)](#)

This operation creates a data set.

- [CreateJob \(p. 59\)](#)

This operation creates a job.

- [CreateRevision \(p. 28\)](#)

This operation creates a revision for a data set.

- [DeleteAsset \(p. 51\)](#)

This operation deletes an asset.

- [DeleteDataSet \(p. 19\)](#)

This operation deletes a data set.

- [DeleteRevision \(p. 36\)](#)

This operation deletes a revision.

- [GetAsset \(p. 50\)](#)

This operation returns information about an asset.

- [GetDataSet \(p. 18\)](#)

This operation returns information about a data set.

- [GetJob \(p. 77\)](#)

This operation returns information about a job.

- [GetRevision \(p. 36\)](#)

This operation returns information about a revision.

- [ListDataSetRevisions \(p. 28\)](#)

This operation lists a data set's revisions sorted by `CreatedAt` in descending order.

- [ListDataSets \(p. 8\)](#)

This operation lists your data sets. When listing by origin `OWNED`, results are sorted by `CreatedAt` in descending order. When listing by origin `ENTITLED`, there is no order and the `maxResults` parameter is ignored.

- [ListJobs \(p. 58\)](#)

This operation lists your jobs sorted by `CreatedAt` in descending order.

- [ListRevisionAssets \(p. 45\)](#)

This operation lists a revision's assets sorted alphabetically in descending order.

- [ListTagsForResource \(p. 5\)](#)

This operation lists the tags on the resource.

- [StartJob \(p. 78\)](#)

This operation starts a job.

- [TagResource \(p. 6\)](#)

This operation tags a resource.

- [UntagResource \(p. 6\)](#)

This operation removes one or more tags from a resource.

- [UpdateAsset \(p. 52\)](#)

This operation updates an asset.

- [UpdateDataSet \(p. 19\)](#)

This operation updates a data set.

- [UpdateRevision \(p. 37\)](#)

This operation updates a revision.

Resources

The AWS Data Exchange REST API includes the following resources.

Topics

- [Tags](#) (p. 5)
- [Data Sets](#) (p. 8)
- [Data Set](#) (p. 18)
- [Revisions](#) (p. 28)
- [Revision](#) (p. 36)
- [Assets](#) (p. 45)
- [Asset](#) (p. 50)
- [Jobs](#) (p. 58)
- [Job](#) (p. 76)

Tags

You can add tags to your owned data sets and their revisions. When you use tagging, you can also use tag-based access control in IAM policies to control access to these data sets and revisions. This section defines the `ListTagsForResource`, `TagResource`, and `UntagResource` operations.

URI

`/tags/resource-arn`

HTTP Methods

GET

Operation ID: `ListTagsForResource`

This operation lists the tags on the resource.

Path Parameters

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| <i>resource-arn</i> | String | True | An Amazon Resource Name (ARN) that uniquely identifies an AWS resource. |

Responses

| Status Code | Response Model | Description |
|-------------|----------------------------------|--------------|
| 200 | tagsModel (p. 7) | 200 response |

POST

Operation ID: TagResource

This operation tags a resource.

Path Parameters

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| <i>resource-arn</i> | String | True | An Amazon Resource Name (ARN) that uniquely identifies an AWS resource. |

Responses

| Status Code | Response Model | Description |
|-------------|----------------|--------------|
| 204 | None | 204 response |

DELETE

Operation ID: UntagResource

This operation removes one or more tags from a resource.

Path Parameters

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| <i>resource-arn</i> | String | True | An Amazon Resource Name (ARN) that uniquely identifies an AWS resource. |

Query Parameters

| Name | Type | Required | Description |
|---------|--------|----------|---------------|
| tagKeys | String | True | The key tags. |

Responses

| Status Code | Response Model | Description |
|-------------|----------------|--------------|
| 204 | None | 204 response |

Schemas

Request Bodies

Example POST

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

Response Bodies

Example tagsModel

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

Properties

tagsModel

You can assign metadata to your AWS Data Exchange resources in the form of tags. Each tag is a label that consists of a customer-defined key and an optional value that can make it easier to manage, search for, and filter resources.

tags

A label that consists of a customer-defined key and an optional value.

Type: object

Required: True

See Also

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

ListTagsForResource

- [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 V3](#)

TagResource

- [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 V3](#)

UntagResource

- [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 V3](#)

Data Sets

A data set is an AWS resource with one or more revisions. This section defines the `ListDataSets` and `CreateDataSet` operations.

URI

`/v1/data-sets`

HTTP Methods

GET

Operation ID: `ListDataSets`

This operation lists your data sets. When listing by origin `OWNED`, results are sorted by `CreatedAt` in descending order. When listing by origin `ENTITLED`, there is no order and the `maxResults` parameter is ignored.

Query Parameters

| Name | Type | Required | Description |
|------------|--------|----------|--|
| origin | String | False | A property that defines the data set as OWNED by the account (for providers) or ENTITLED to the account (for subscribers). |
| nextToken | String | False | The token value retrieved from a previous call to access the next page of results. |
| maxResults | String | False | The maximum number of results returned by a single call. |

Responses

| Status Code | Response Model | Description |
|-------------|--|--------------|
| 200 | ListOfDataSets (p. 10) | 200 response |
| 400 | ValidationException (p. 10) | 400 response |
| 404 | ResourceNotFoundException (p. 10) | 404 response |
| 429 | ThrottlingException (p. 11) | 429 response |
| 500 | InternalServerErrorException (p. 11) | 500 response |

POST

Operation ID: CreateDataSet

This operation creates a data set.

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 201 | TaggedDataSet (p. 10) | 201 response |
| 400 | ValidationException (p. 10) | 400 response |
| 402 | ServiceQuotaExceededException (p. 10) | 402 response |
| 403 | AccessDeniedException (p. 10) | 403 response |
| 429 | ThrottlingException (p. 11) | 429 response |
| 500 | InternalServerErrorException (p. 11) | 500 response |

Schemas

Request Bodies

Example POST

```
{
  "AssetType": enum,
  "Description": "string",
  "Tags": {
  },
  "Name": "string"
}
```

Response Bodies

Example ListOfDataSets

```
{
  "NextToken": "string",
  "DataSets": [
    {
      "Origin": enum,
      "AssetType": enum,
      "Description": "string",
      "OriginDetails": {
      },
      "SourceId": "string",
      "CreatedAt": "string",
      "Id": "string",
      "Arn": "string",
      "UpdatedAt": "string",
      "Name": "string"
    }
  ]
}
```

Example TaggedDataSet

```
{
  "Origin": enum,
  "AssetType": enum,
  "Description": "string",
  "OriginDetails": {
  },
  "SourceId": "string",
  "CreatedAt": "string",
  "Id": "string",
  "Arn": "string",
  "UpdatedAt": "string",
  "Tags": {
  },
  "Name": "string"
}
```

Example ValidationException

```
{
```

```
"Message": "string"
}
```

Example ServiceQuotaExceededException

```
{
  "Message": "string",
  "LimitName": enum,
  "LimitValue": number
}
```

Example AccessDeniedException

```
{
  "Message": "string"
}
```

Example ResourceNotFoundException

```
{
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": enum
}
```

Example ThrottlingException

```
{
  "Message": "string"
}
```

Example InternalServerErrorException

```
{
  "Message": "string"
}
```

Properties

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

Type: string
Required: True

AssetType

The type of file your data is stored in. Currently, the supported asset type is S3_SNAPSHOT.

S3_SNAPSHOT

CreateDataSetRequest

A request to create a data set that contains one or more revisions.

AssetType

The type of file your data is stored in. Currently, the supported asset type is `S3_SNAPSHOT`.

Type: [AssetType \(p. 11\)](#)

Required: True

Description

A description for the data set. This value can be up to 16,348 characters long.

Type: string

Required: True

Tags

A data set tag is an optional label that you can assign to a data set when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to these data sets and revisions.

Type: object

Required: False

Name

The name of the data set.

Type: string

Required: True

DataSetEntry

A data set is an AWS resource with one or more revisions.

Origin

A property that defines the data set as `OWNED` by the account (for providers) or `ENTITLED` to the account (for subscribers).

Type: [Origin \(p. 14\)](#)

Required: True

AssetType

The type of file your data is stored in. Currently, the supported asset type is `S3_SNAPSHOT`.

Type: [AssetType \(p. 11\)](#)

Required: True

Description

The description for the data set.

Type: string
Required: True

OriginDetails

If the origin of this data set is `ENTITLED`, includes the details for the product on AWS Marketplace.

Type: object
Required: False

SourceId

The data set ID of the owned data set corresponding to the entitled data set being viewed. This parameter is returned when a data set owner is viewing the entitled copy of its owned data set.

Type: string
Required: False

CreatedAt

The date and time that the data set was created, in ISO 8601 format.

Type: string
Required: True

Id

The unique identifier for the data set.

Type: string
Required: True

Arn

The ARN for the data set.

Type: string
Required: True

UpdatedAt

The date and time that the data set was last updated, in ISO 8601 format.

Type: string
Required: True

Name

The name of the data set.

Type: string

Required: True

InternalServerError

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

Type: string

Required: True

ListOfDataSets

The data set objects listed by the request.

NextToken

The token value retrieved from a previous call to access the next page of results.

Type: string

Required: False

DataSets

The data set objects listed by the request.

Type: Array of type [DataSetEntry](#) (p. 12)

Required: True

Origin

A property that defines the data set as `OWNED` by the account (for providers) or `ENTITLED` to the account (for subscribers). When an owned data set is published in a product, AWS Data Exchange creates a copy of the data set. Subscribers can access that copy of the data set as an entitled data set.

`OWNED`

`ENTITLED`

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

Type: string

Required: True

ResourceId

The unique identifier for the resource that couldn't be found.

Type: string
Required: False

ResourceType

The type of resource that couldn't be found.

Type: string
Required: False
Values: DATA_SET | REVISION | ASSET | JOB

ServiceQuotaExceededException

The request has exceeded the quotas imposed by the service.

Message

The request has exceeded the quotas imposed by the service.

Type: string
Required: True

LimitName

The name of the quota that was exceeded.

Type: string
Required: False
Values: Products per account | Data sets per account | Data sets per product | Revisions per data set | Assets per revision | products per data set | Assets per import job from Amazon S3 | Asset per export job from Amazon S3 | Asset size in GB | Concurrent in progress jobs to import assets from Amazon S3 | Concurrent in progress jobs to import assets from a signed URL | Concurrent in progress jobs to export assets to Amazon S3 | Concurrent in progress jobs to export assets to a signed URL | Revisions per change set | Private offers per account | Bring-Your-Own-Subscription offers per account

LimitValue

The maximum value for the service-specific limit.

Type: number
Required: False
Format: float

TaggedDataSet

A data set is an AWS resource with one or more revisions.

Origin

A property that defines the data set as OWNED by the account (for providers) or ENTITLED to the account (for subscribers).

Type: [Origin \(p. 14\)](#)

Required: True

AssetType

The type of file your data is stored in. Currently, the supported asset type is `S3_SNAPSHOT`.

Type: [AssetType \(p. 11\)](#)

Required: True

Description

The description for the data set.

Type: string

Required: True

OriginDetails

If the origin of this data set is `ENTITLED`, includes the details for the product on AWS Marketplace.

Type: object

Required: False

SourceId

The data set ID of the owned data set corresponding to the entitled data set being viewed. This parameter is returned when a data set owner is viewing the entitled copy of its owned data set.

Type: string

Required: False

CreatedAt

The date and time that the data set was created, in ISO 8601 format.

Type: string

Required: True

Id

The unique identifier for the data set.

Type: string

Required: True

Arn

The ARN for the data set.

Type: string

Required: True

UpdatedAt

The date and time that the data set was last updated, in ISO 8601 format.

Type: string
Required: True

Tags

The tags for the data set.

Type: object
Required: False

Name

The name of the data set.

Type: string
Required: True

ThrottlingException

The limit on the number of requests per second was exceeded.

Message

The limit on the number of requests per second was exceeded.

Type: string
Required: True

ValidationException

The request was invalid.

Message

The message that informs you about what was invalid about the request.

Type: string
Required: True

See Also

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

ListDataSets

- [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 V3](#)

CreateDataSet

- [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 V3](#)

Data Set

A data set is an AWS resource with one or more revisions. This section defines the `GetDataSet`, `DeleteDataSet`, and `UpdateDataSet` operations.

URI

`/v1/data-sets/DataSetId`

HTTP Methods

GET

Operation ID: `GetDataSet`

This operation returns information about a data set.

Path Parameters

| Name | Type | Required | Description |
|------------------|--------|----------|---------------------------------------|
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 200 | TaggedDataSet (p. 20) | 200 response |
| 400 | ValidationException (p. 20) | 400 response |
| 404 | ResourceNotFoundException (p. 20) | 404 response |
| 429 | ThrottlingException (p. 21) | 429 response |
| 500 | InternalServerError (p. 500) | 500 response |

DELETE

Operation ID: DeleteDataSet

This operation deletes a data set.

Path Parameters

| Name | Type | Required | Description |
|------------------|--------|----------|---------------------------------------|
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 204 | None | 204 response |
| 400 | ValidationException (p. 20) | 400 response |
| 403 | AccessDeniedException (p. 20) | 403 response |
| 404 | ResourceNotFoundException (p. 21) | 404 response |
| 409 | ConflictException (p. 21) | 409 response |
| 429 | ThrottlingException (p. 21) | 429 response |
| 500 | InternalServerError (p. 50) | 500 response |

PATCH

Operation ID: UpdateDataSet

This operation updates a data set.

Path Parameters

| Name | Type | Required | Description |
|------------------|--------|----------|---------------------------------------|
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 200 | DataSet (p. 20) | 200 response |
| 400 | ValidationException (p. 20) | 400 response |
| 403 | AccessDeniedException (p. 20) | 403 response |
| 404 | ResourceNotFoundException (p. 21) | 404 response |
| 429 | ThrottlingException (p. 21) | 429 response |

| Status Code | Response Model | Description |
|-------------|---|-------------|
| 500 | InternalServerError (p 500) | response |

Schemas

Request Bodies

Example PATCH

```
{
  "Description": "string",
  "Name": "string"
}
```

Response Bodies

Example TaggedDataSet

```
{
  "Origin": enum,
  "AssetType": enum,
  "Description": "string",
  "OriginDetails": {
  },
  "SourceId": "string",
  "CreatedAt": "string",
  "Id": "string",
  "Arn": "string",
  "UpdatedAt": "string",
  "Tags": {
  },
  "Name": "string"
}
```

Example DataSet

```
{
  "Origin": enum,
  "AssetType": enum,
  "Description": "string",
  "OriginDetails": {
  },
  "SourceId": "string",
  "CreatedAt": "string",
  "Id": "string",
  "Arn": "string",
  "UpdatedAt": "string",
  "Name": "string"
}
```

Example ValidationException

```
{
  "Message": "string"
}
```



```
}
```

Example AccessDeniedException

```
{  
  "Message": "string"  
}
```

Example ResourceNotFoundException

```
{  
  "Message": "string",  
  "ResourceId": "string",  
  "ResourceType": enum  
}
```

Example ConflictException

```
{  
  "Message": "string",  
  "ResourceId": "string",  
  "ResourceType": enum  
}
```

Example ThrottlingException

```
{  
  "Message": "string"  
}
```

Example InternalServerErrorException

```
{  
  "Message": "string"  
}
```

Properties

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

Type: string
Required: True

AssetType

The type of file your data is stored in. Currently, the supported asset type is S3_SNAPSHOT.

S3_SNAPSHOT

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

Message

The request couldn't be completed because it conflicted with the current state of the resource.

Type: string
Required: True

ResourceId

The unique identifier for the resource with the conflict.

Type: string
Required: False

ResourceType

The type of the resource with the conflict.

Type: string
Required: False
Values: DATA_SET | REVISION | ASSET | JOB

DataSet

A data set is an AWS resource with one or more revisions.

Origin

A property that defines the data set as OWNED by the account (for providers) or ENTITLED to the account (for subscribers).

Type: [Origin \(p. 24\)](#)
Required: True

AssetType

The type of file your data is stored in. Currently, the supported asset type is S3_SNAPSHOT.

Type: [AssetType \(p. 21\)](#)
Required: True

Description

The description for the data set.

Type: string
Required: True

OriginDetails

If the origin of this data set is `ENTITLED`, includes the details for the product on AWS Marketplace.

Type: object
Required: False

SourceId

The data set ID of the owned data set corresponding to the entitled data set being viewed. This parameter is returned when a data set owner is viewing the entitled copy of its owned data set.

Type: string
Required: False

CreatedAt

The date and time that the data set was created, in ISO 8601 format.

Type: string
Required: True

Id

The unique identifier for the data set.

Type: string
Required: True

Arn

The ARN for the data set.

Type: string
Required: True

UpdatedAt

The date and time that the data set was last updated, in ISO 8601 format.

Type: string
Required: True

Name

The name of the data set.

Type: string
Required: True

InternalServerErrorException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

Type: string

Required: True

Origin

A property that defines the data set as `OWNED` by the account (for providers) or `ENTITLED` to the account (for subscribers). When an owned data set is published in a product, AWS Data Exchange creates a copy of the data set. Subscribers can access that copy of the data set as an entitled data set.

`OWNED`

`ENTITLED`

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

Type: string

Required: True

ResourceId

The unique identifier for the resource that couldn't be found.

Type: string

Required: False

ResourceType

The type of resource that couldn't be found.

Type: string

Required: False

Values: `DATA_SET` | `REVISION` | `ASSET` | `JOB`

TaggedDataSet

A data set is an AWS resource with one or more revisions.

Origin

A property that defines the data set as `OWNED` by the account (for providers) or `ENTITLED` to the account (for subscribers).

Type: [Origin \(p. 24\)](#)

Required: True

AssetType

The type of file your data is stored in. Currently, the supported asset type is `S3_SNAPSHOT`.

Type: [AssetType \(p. 21\)](#)

Required: True

Description

The description for the data set.

Type: string

Required: True

OriginDetails

If the origin of this data set is `ENTITLED`, includes the details for the product on AWS Marketplace.

Type: object

Required: False

SourceId

The data set ID of the owned data set corresponding to the entitled data set being viewed. This parameter is returned when a data set owner is viewing the entitled copy of its owned data set.

Type: string

Required: False

CreatedAt

The date and time that the data set was created, in ISO 8601 format.

Type: string

Required: True

Id

The unique identifier for the data set.

Type: string

Required: True

Arn

The ARN for the data set.

Type: string

Required: True

UpdatedAt

The date and time that the data set was last updated, in ISO 8601 format.

Type: string

Required: True

Tags

The tags for the data set.

Type: object

Required: False

Name

The name of the data set.

Type: string

Required: True

ThrottlingException

The limit on the number of requests per second was exceeded.

Message

The limit on the number of requests per second was exceeded.

Type: string

Required: True

UpdateDataSetRequest

The request to update a data set.

Description

The description for the data set.

Type: string

Required: False

Name

The name of the data set.

Type: string

Required: False

ValidationException

The request was invalid.

Message

The message that informs you about what was invalid about the request.

Type: string
Required: True

See Also

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

GetDataSet

- [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 V3](#)

DeleteDataSet

- [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 V3](#)

UpdateDataSet

- [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 V3](#)

Revisions

A revision is a container for one or more assets. As new data is available, you create revisions and add assets. This section defines the `ListDataSetRevisions` and `CreateRevision` operations.

URI

`/v1/data-sets/DataSetId/revisions`

HTTP Methods

GET

Operation ID: `ListDataSetRevisions`

This operation lists a data set's revisions sorted by `CreatedAt` in descending order.

Path Parameters

| Name | Type | Required | Description |
|------------------|--------|----------|---------------------------------------|
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Query Parameters

| Name | Type | Required | Description |
|-------------------------|--------|----------|--|
| <code>nextToken</code> | String | False | The token value retrieved from a previous call to access the next page of results. |
| <code>maxResults</code> | String | False | The maximum number of results returned by a single call. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 200 | ListOfRevisions (p. 29) | 200 response |
| 400 | ValidationException (p. 30) | 400 response |
| 404 | ResourceNotFoundException (p. 30) | 404 response |
| 429 | ThrottlingException (p. 30) | 429 response |
| 500 | InternalServerErrorException (p. 500) | 500 response |

POST

Operation ID: `CreateRevision`

This operation creates a revision for a data set.

Path Parameters

| Name | Type | Required | Description |
|------------------|--------|----------|---------------------------------------|
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|--|--------------|
| 201 | TaggedRevision (p. 30) | 201 response |
| 400 | ValidationException (p. 30) | 400 response |
| 403 | AccessDeniedException (p. 30) | 403 response |
| 404 | ResourceNotFoundException (p. 30) | 404 response |
| 429 | ThrottlingException (p. 30) | 429 response |
| 500 | InternalServerErrorException (p. 30) | 500 response |

Schemas

Request Bodies

Example POST

```
{
  "Comment": "string",
  "Tags": {
  }
}
```

Response Bodies

Example ListOfRevisions

```
{
  "NextToken": "string",
  "Revisions": [
    {
      "Comment": "string",
      "SourceId": "string",
      "CreatedAt": "string",
      "DataSetId": "string",
      "Id": "string",
      "Arn": "string",
      "UpdatedAt": "string",
      "Finalized": boolean
    }
  ]
}
```

Example TaggedRevision

```
{
  "Comment": "string",
  "SourceId": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Id": "string",
  "Arn": "string",
  "UpdatedAt": "string",
  "Finalized": boolean,
  "Tags": {
  }
}
```

Example ValidationException

```
{
  "Message": "string"
}
```

Example AccessDeniedException

```
{
  "Message": "string"
}
```

Example ResourceNotFoundException

```
{
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": enum
}
```

Example ThrottlingException

```
{
  "Message": "string"
}
```

Example InternalServerErrorException

```
{
  "Message": "string"
}
```

Properties

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

Type: string
Required: True

CreateRevisionRequest

Creates a revision for a data set. When they're created, revisions are not published to products, and therefore are not available to subscribers. To publish a revision to a data set in a product, the revision must first be finalized.

Comment

An optional comment about the revision.

Type: string
Required: False
MinLength: 0
MaxLength: 16384

Tags

A revision tag is an optional label that you can assign to a revision when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to these data sets and revisions.

Type: object
Required: False

InternalServerErrorException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

Type: string
Required: True

ListOfRevisions

The revision objects listed by the request.

NextToken

The token value retrieved from a previous call to access the next page of results.

Type: string
Required: False

Revisions

The asset objects listed by the request.

Type: Array of type [RevisionEntry](#) (p. 32)

Required: True

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

Type: string

Required: True

ResourceId

The unique identifier for the resource that couldn't be found.

Type: string

Required: False

ResourceType

The type of resource that couldn't be found.

Type: string

Required: False

Values: DATA_SET | REVISION | ASSET | JOB

RevisionEntry

A revision is a container for one or more assets.

Comment

An optional comment about the revision.

Type: string

Required: False

MinLength: 0

MaxLength: 16384

SourceId

The revision ID of the owned revision corresponding to the entitled revision being viewed. This parameter is returned when a revision owner is viewing the entitled copy of its owned revision.

Type: string

Required: False

CreatedAt

The date and time that the revision was created, in ISO 8601 format.

Type: string

Required: True

DataSetId

The unique identifier for the data set associated with this revision.

Type: string
Required: True

Id

The unique identifier for the revision.

Type: string
Required: True

Arn

The ARN for the revision.

Type: string
Required: True

UpdatedAt

The date and time that the revision was last updated, in ISO 8601 format.

Type: string
Required: True

Finalized

To publish a revision to a data set in a product, the revision must first be finalized. Finalizing a revision tells AWS Data Exchange that your changes to the assets in the revision are complete. After it's in this read-only state, you can publish the revision to your products.

Finalized revisions can be published through the AWS Data Exchange console or the AWS Marketplace Catalog API, using the StartChangeSet AWS Marketplace Catalog API action. When using the API, revisions are uniquely identified by their ARN.

Type: boolean
Required: False

TaggedRevision

A revision tag is an optional label that you can assign to a revision when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to these data sets and revisions.

Comment

An optional comment about the revision.

Type: string
Required: False
MinLength: 0
MaxLength: 16384

SourceId

The revision ID of the owned revision corresponding to the entitled revision being viewed. This parameter is returned when a revision owner is viewing the entitled copy of its owned revision.

Type: string
Required: False

CreatedAt

The date and time that the revision was created, in ISO 8601 format.

Type: string
Required: True

DataSetId

The unique identifier for the data set associated with this revision.

Type: string
Required: True

Id

The unique identifier for the revision.

Type: string
Required: True

Arn

The ARN for the revision

Type: string
Required: True

UpdatedAt

The date and time that the revision was last updated, in ISO 8601 format.

Type: string
Required: True

Finalized

To publish a revision to a data set in a product, the revision must first be finalized. Finalizing a revision tells AWS Data Exchange that your changes to the assets in the revision are complete. After it's in this read-only state, you can publish the revision to your products.

Finalized revisions can be published through the AWS Data Exchange console or the AWS Marketplace Catalog API, using the StartChangeSet AWS Marketplace Catalog API action. When using the API, revisions are uniquely identified by their ARN.

Type: boolean
Required: False

Tags

The tags for the revision.

Type: object
Required: False

ThrottlingException

The limit on the number of requests per second was exceeded.

Message

The limit on the number of requests per second was exceeded.

Type: string
Required: True

ValidationException

The request was invalid.

Message

The message that informs you about what was invalid about the request.

Type: string
Required: True

See Also

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

ListDataSetRevisions

- [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 V3](#)

CreateRevision

- [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 V3](#)

Revision

A revision is a container for one or more assets. As new data is available, you create revisions and add assets. This section defines the `GetRevision`, `DeleteRevision`, and `UpdateRevision` operations.

URI

`/v1/data-sets/DataSetId/revisions/RevisionId`

HTTP Methods

GET

Operation ID: `GetRevision`

This operation returns information about a revision.

Path Parameters

| Name | Type | Required | Description |
|-------------------|--------|----------|---------------------------------------|
| <i>RevisionId</i> | String | True | The unique identifier for a revision. |
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 200 | TaggedRevision (p. 38) | 200 response |
| 400 | ValidationException (p. 38) | 400 response |
| 404 | ResourceNotFoundException (p. 38) | 404 response |
| 429 | ThrottlingException (p. 39) | 429 response |
| 500 | InternalServerErrorException (p. 500) | 500 response |

DELETE

Operation ID: `DeleteRevision`

This operation deletes a revision.

Path Parameters

| Name | Type | Required | Description |
|-------------------|--------|----------|---------------------------------------|
| <i>RevisionId</i> | String | True | The unique identifier for a revision. |
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|--|--------------|
| 204 | None | 204 response |
| 400 | ValidationException (p. 38) | 400 response |
| 403 | AccessDeniedException (p. 34) | 403 response |
| 404 | ResourceNotFoundException (p. 41) | 404 response |
| 409 | ConflictException (p. 39) | 409 response |
| 429 | ThrottlingException (p. 39) | 429 response |
| 500 | InternalServerErrorException (p. 50) | 500 response |

PATCH

Operation ID: UpdateRevision

This operation updates a revision.

Path Parameters

| Name | Type | Required | Description |
|-------------------|--------|----------|---------------------------------------|
| <i>RevisionId</i> | String | True | The unique identifier for a revision. |
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 200 | Revision (p. 38) | 200 response |
| 400 | ValidationException (p. 38) | 400 response |
| 403 | AccessDeniedException (p. 34) | 403 response |
| 404 | ResourceNotFoundException (p. 41) | 404 response |
| 409 | ConflictException (p. 39) | 409 response |
| 429 | ThrottlingException (p. 39) | 429 response |

| Status Code | Response Model | Description |
|-------------|---|-------------|
| 500 | InternalServerError (p 500) | response |

Schemas

Request Bodies

Example PATCH

```
{
  "Comment": "string",
  "Finalized": boolean
}
```

Response Bodies

Example TaggedRevision

```
{
  "Comment": "string",
  "SourceId": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Id": "string",
  "Arn": "string",
  "UpdatedAt": "string",
  "Finalized": boolean,
  "Tags": {
  }
}
```

Example Revision

```
{
  "Comment": "string",
  "SourceId": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
  "Id": "string",
  "Arn": "string",
  "UpdatedAt": "string",
  "Finalized": boolean
}
```

Example ValidationException

```
{
  "Message": "string"
}
```

Example AccessDeniedException

```
{
```

```
"Message": "string"
}
```

Example ResourceNotFoundException

```
{
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": enum
}
```

Example ConflictException

```
{
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": enum
}
```

Example ThrottlingException

```
{
  "Message": "string"
}
```

Example InternalServerErrorException

```
{
  "Message": "string"
}
```

Properties

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

Type: string

Required: True

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

Message

The request couldn't be completed because it conflicted with the current state of the resource.

Type: string

Required: True

ResourceId

The unique identifier for the resource with the conflict.

Type: string

Required: False

ResourceType

The type of the resource with the conflict.

Type: string

Required: False

Values: DATA_SET | REVISION | ASSET | JOB

InternalServerErrorException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

Type: string

Required: True

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

Type: string

Required: True

ResourceId

The unique identifier for the resource that couldn't be found.

Type: string

Required: False

ResourceType

The type of resource that couldn't be found.

Type: string

Required: False

Values: DATA_SET | REVISION | ASSET | JOB

Revision

A revision is a container for one or more assets.

Comment

An optional comment about the revision.

Type: string
Required: False
MinLength: 0
MaxLength: 16384

SourceId

The revision ID of the owned revision corresponding to the entitled revision being viewed. This parameter is returned when a revision owner is viewing the entitled copy of its owned revision.

Type: string
Required: False

CreatedAt

The date and time that the revision was created, in ISO 8601 format.

Type: string
Required: True

DataSetId

The unique identifier for the data set associated with this revision.

Type: string
Required: True

Id

The unique identifier for the revision.

Type: string
Required: True

Arn

The ARN for the revision.

Type: string
Required: True

UpdatedAt

The date and time that the revision was last updated, in ISO 8601 format.

Type: string
Required: True

Finalized

To publish a revision to a data set in a product, the revision must first be finalized. Finalizing a revision tells AWS Data Exchange that changes to the assets in the revision are complete. After it's in this read-only state, you can publish the revision to your products.

Finalized revisions can be published through the AWS Data Exchange console or the AWS Marketplace Catalog API, using the StartChangeSet AWS Marketplace Catalog API action. When using the API, revisions are uniquely identified by their ARN.

Type: boolean
Required: False

TaggedRevision

A revision tag is an optional label that you can assign to a revision when you create it. Each tag consists of a key and an optional value, both of which you define. When you use tagging, you can also use tag-based access control in IAM policies to control access to these data sets and revisions.

Comment

An optional comment about the revision.

Type: string
Required: False
MinLength: 0
MaxLength: 16384

SourceId

The revision ID of the owned revision corresponding to the entitled revision being viewed. This parameter is returned when a revision owner is viewing the entitled copy of its owned revision.

Type: string
Required: False

CreatedAt

The date and time that the revision was created, in ISO 8601 format.

Type: string
Required: True

DataSetId

The unique identifier for the data set associated with this revision.

Type: string
Required: True

Id

The unique identifier for the revision.

Type: string
Required: True

Arn

The ARN for the revision

Type: string
Required: True

UpdatedAt

The date and time that the revision was last updated, in ISO 8601 format.

Type: string
Required: True

Finalized

To publish a revision to a data set in a product, the revision must first be finalized. Finalizing a revision tells AWS Data Exchange that your changes to the assets in the revision are complete. After it's in this read-only state, you can publish the revision to your products.

Finalized revisions can be published through the AWS Data Exchange console or the AWS Marketplace Catalog API, using the StartChangeSet AWS Marketplace Catalog API action. When using the API, revisions are uniquely identified by their ARN.

Type: boolean
Required: False

Tags

The tags for the revision.

Type: object
Required: False

ThrottlingException

The limit on the number of requests per second was exceeded.

Message

The limit on the number of requests per second was exceeded.

Type: string
Required: True

UpdateRevisionRequest

The request to update a revision.

Comment

An optional comment about the revision.

Type: string
Required: False
MinLength: 0

MaxLength: 16384

Finalized

Finalizing a revision tells AWS Data Exchange that your changes to the assets in the revision are complete. After it's in this read-only state, you can publish the revision to your products.

Type: boolean

Required: False

ValidationException

The request was invalid.

Message

The message that informs you about what was invalid about the request.

Type: string

Required: True

See Also

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

GetRevision

- [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 V3](#)

DeleteRevision

- [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 V3](#)

UpdateRevision

- [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 V3](#)

Assets

An asset in AWS Data Exchange is a piece of data that can be stored as an S3 object. The asset can be a structured data file, an image file, or some other data file. When you create an import job for your files, you create an asset in AWS Data Exchange for each of those files. This section defines the `ListRevisionAssets` operation.

URI

`/v1/data-sets/DataSetId/revisions/RevisionId/assets`

HTTP Methods

GET

Operation ID: `ListRevisionAssets`

This operation lists a revision's assets sorted alphabetically in descending order.

Path Parameters

| Name | Type | Required | Description |
|-------------------|--------|----------|---------------------------------------|
| <i>RevisionId</i> | String | True | The unique identifier for a revision. |
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Query Parameters

| Name | Type | Required | Description |
|-------------------------|--------|----------|--|
| <code>nextToken</code> | String | False | The token value retrieved from a previous call to access the next page of results. |
| <code>maxResults</code> | String | False | The maximum number of results returned by a single call. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 200 | ListOfAssets (p. 46) | 200 response |
| 400 | ValidationException (p. 46) | 400 response |
| 404 | ResourceNotFoundException (p. 46) | 404 response |
| 429 | ThrottlingException (p. 46) | 429 response |
| 500 | InternalServerError (p. 507) | 500 response |

Schemas

Response Bodies

Example ListOfAssets

```
{
  "NextToken": "string",
  "Assets": [
    {
      "AssetType": enum,
      "SourceId": "string",
      "CreatedAt": "string",
      "DataSetId": "string",
      "Id": "string",
      "AssetDetails": {
      },
      "Arn": "string",
      "UpdatedAt": "string",
      "RevisionId": "string",
      "Name": "string"
    }
  ]
}
```

Example ValidationException

```
{
  "Message": "string"
}
```

Example ResourceNotFoundException

```
{
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": enum
}
```

Example ThrottlingException

```
{
  "Message": "string"
}
```

```
}
```

Example InternalServerErrorException

```
{  
  "Message": "string"  
}
```

Properties

AssetEntry

An asset in AWS Data Exchange is a piece of data that can be stored as an S3 object. The asset can be a structured data file, an image file, or some other data file. When you create an import job for your files, you create an asset in AWS Data Exchange for each of those files.

AssetType

The type of file your data is stored in. Currently, the supported asset type is `S3_SNAPSHOT`.

Type: [AssetType \(p. 48\)](#)

Required: True

SourceId

The asset ID of the owned asset corresponding to the entitled asset being viewed. This parameter is returned when an asset owner is viewing the entitled copy of its owned asset.

Type: string

Required: False

CreatedAt

The date and time that the asset was created, in ISO 8601 format.

Type: string

Required: True

DataSetId

The unique identifier for the data set associated with this asset.

Type: string

Required: True

Id

The unique identifier for the asset.

Type: string

Required: True

AssetDetails

Information about the asset, including its size.

Type: object
Required: True

Arn

The ARN for the asset.

Type: string
Required: True

UpdatedAt

The date and time that the asset was last updated, in ISO 8601 format.

Type: string
Required: True

RevisionId

The unique identifier for the revision associated with this asset.

Type: string
Required: True

Name

The name of the asset. When importing from Amazon S3, the S3 object key is used as the asset name. When exporting to Amazon S3, the asset name is used as default target S3 object key.

Type: string
Required: True

AssetType

The type of file your data is stored in. Currently, the supported asset type is S3_SNAPSHOT.

S3_SNAPSHOT

InternalServerErrorException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

Type: string
Required: True

ListOfAssets

The asset objects listed by the request.

NextToken

The token value retrieved from a previous call to access the next page of results.

Type: string
Required: False

Assets

The asset objects listed by the request.

Type: Array of type [AssetEntry \(p. 47\)](#)
Required: True

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

Type: string
Required: True

ResourceId

The unique identifier for the resource that couldn't be found.

Type: string
Required: False

ResourceType

The type of resource that couldn't be found.

Type: string
Required: False
Values: DATA_SET | REVISION | ASSET | JOB

ThrottlingException

The limit on the number of requests per second was exceeded.

Message

The limit on the number of requests per second was exceeded.

Type: string
Required: True

ValidationException

The request was invalid.

Message

The message that informs you about what was invalid about the request.

Type: string

Required: True

See Also

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

ListRevisionAssets

- [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 V3](#)

Asset

An asset in AWS Data Exchange is a piece of data that can be stored as an S3 object. The asset can be a structured data file, an image file, or some other data file. When you create an import job for your files, you create an asset in AWS Data Exchange for each of those files. This section defines the `GetAsset`, `DeleteAsset`, and `UpdateAsset` operations.

URI

`/v1/data-sets/DataSetId/revisions/RevisionId/assets/AssetId`

HTTP Methods

GET

Operation ID: `GetAsset`

This operation returns information about an asset.

Path Parameters

| Name | Type | Required | Description |
|-------------------|--------|----------|---------------------------------------|
| <i>RevisionId</i> | String | True | The unique identifier for a revision. |

| Name | Type | Required | Description |
|------------------|--------|----------|---------------------------------------|
| <i>AssetId</i> | String | True | The unique identifier for an asset. |
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 200 | Asset (p. 52) | 200 response |
| 400 | ValidationException (p. 53) | 400 response |
| 404 | ResourceNotFoundException (p. 53) | 404 response |
| 429 | ThrottlingException (p. 53) | 429 response |
| 500 | InternalServerError (p. 50) | 500 response |

DELETE

Operation ID: DeleteAsset

This operation deletes an asset.

Path Parameters

| Name | Type | Required | Description |
|-------------------|--------|----------|---------------------------------------|
| <i>RevisionId</i> | String | True | The unique identifier for a revision. |
| <i>AssetId</i> | String | True | The unique identifier for an asset. |
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 204 | None | 204 response |
| 400 | ValidationException (p. 53) | 400 response |
| 403 | AccessDeniedException (p. 50) | 403 response |
| 404 | ResourceNotFoundException (p. 53) | 404 response |
| 409 | ConflictException (p. 53) | 409 response |
| 429 | ThrottlingException (p. 53) | 429 response |
| 500 | InternalServerError (p. 50) | 500 response |

PATCH

Operation ID: UpdateAsset

This operation updates an asset.

Path Parameters

| Name | Type | Required | Description |
|-------------------|--------|----------|---------------------------------------|
| <i>RevisionId</i> | String | True | The unique identifier for a revision. |
| <i>AssetId</i> | String | True | The unique identifier for an asset. |
| <i>DataSetId</i> | String | True | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 200 | Asset (p. 52) | 200 response |
| 400 | ValidationException (p. 53) | 400 response |
| 403 | AccessDeniedException (p. 53) | 403 response |
| 404 | ResourceNotFoundException (p. 53) | 404 response |
| 409 | ConflictException (p. 53) | 409 response |
| 429 | ThrottlingException (p. 53) | 429 response |
| 500 | InternalServerErrorException (p. 500) | 500 response |

Schemas

Request Bodies

Example PATCH

```
{
  "Name": "string"
}
```

Response Bodies

Example Asset

```
{
  "AssetType": enum,
  "SourceId": "string",
  "CreatedAt": "string",
  "DataSetId": "string",
}
```



```
"Id": "string",
"AssetDetails": {
},
"Arn": "string",
"UpdatedAt": "string",
"RevisionId": "string",
"Name": "string"
}
```

Example ValidationException

```
{
  "Message": "string"
}
```

Example AccessDeniedException

```
{
  "Message": "string"
}
```

Example ResourceNotFoundException

```
{
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": enum
}
```

Example ConflictException

```
{
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": enum
}
```

Example ThrottlingException

```
{
  "Message": "string"
}
```

Example InternalServerErrorException

```
{
  "Message": "string"
}
```

Properties

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

Type: string
Required: True

Asset

An asset in AWS Data Exchange is a piece of data that can be stored as an S3 object. The asset can be a structured data file, an image file, or some other data file. When you create an import job for your files, you create an asset in AWS Data Exchange for each of those files.

AssetType

The type of file your data is stored in. Currently, the supported asset type is `S3_SNAPSHOT`.

Type: [AssetType \(p. 55\)](#)
Required: True

SourceId

The asset ID of the owned asset corresponding to the entitled asset being viewed. This parameter is returned when an asset owner is viewing the entitled copy of its owned asset.

Type: string
Required: False

CreatedAt

The date and time that the asset was created, in ISO 8601 format.

Type: string
Required: True

DataSetId

The unique identifier for the data set associated with this asset.

Type: string
Required: True

Id

The unique identifier for the asset.

Type: string
Required: True

AssetDetails

Information about the asset, including its size.

Type: object

Required: True

Arn

The ARN for the asset.

Type: string

Required: True

UpdatedAt

The date and time that the asset was last updated, in ISO 8601 format.

Type: string

Required: True

RevisionId

The unique identifier for the revision associated with this asset.

Type: string

Required: True

Name

The name of the asset. When importing from Amazon S3, the S3 object key is used as the asset name. When exporting to Amazon S3, the asset name is used as default target S3 object key.

Type: string

Required: True

AssetType

The type of file your data is stored in. Currently, the supported asset type is `S3_SNAPSHOT`.

`S3_SNAPSHOT`

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

Message

The request couldn't be completed because it conflicted with the current state of the resource.

Type: string

Required: True

ResourceId

The unique identifier for the resource with the conflict.

Type: string

Required: False

ResourceType

The type of the resource with the conflict.

Type: string

Required: False

Values: DATA_SET | REVISION | ASSET | JOB

InternalServerErrorException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

Type: string

Required: True

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

Type: string

Required: True

ResourceId

The unique identifier for the resource that couldn't be found.

Type: string

Required: False

ResourceType

The type of resource that couldn't be found.

Type: string

Required: False

Values: DATA_SET | REVISION | ASSET | JOB

ThrottlingException

The limit on the number of requests per second was exceeded.

Message

The limit on the number of requests per second was exceeded.

Type: string

Required: True

UpdateAssetRequest

The request to update an asset.

Name

The name of the asset. When importing from Amazon S3, the S3 object key is used as the asset name. When exporting to Amazon S3, the asset name is used as default target S3 object key.

Type: string

Required: True

ValidationException

The request was invalid.

Message

The message that informs you about what was invalid about the request.

Type: string

Required: True

See Also

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

GetAsset

- [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 V3](#)

DeleteAsset

- [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 V3](#)

UpdateAsset

- [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 V3](#)

Jobs

AWS Data Exchange jobs are asynchronous import or export operations used to create or copy assets. A data set owner can both import and export as they see fit. Someone with an entitlement to a data set can only export. Jobs are deleted 90 days after they are created.

This section defines the `ListJobs` and `CreateJob` operations.

URI

`/v1/jobs`

HTTP Methods

GET

Operation ID: `ListJobs`

This operation lists your jobs sorted by `CreatedAt` in descending order.

Query Parameters

| Name | Type | Required | Description |
|-------------------------|--------|----------|--|
| <code>nextToken</code> | String | False | The token value retrieved from a previous call to access the next page of results. |
| <code>maxResults</code> | String | False | The maximum number of results returned by a single call. |
| <code>revisionId</code> | String | False | The unique identifier for a revision. |

| Name | Type | Required | Description |
|-----------|--------|----------|---------------------------------------|
| dataSetId | String | False | The unique identifier for a data set. |

Responses

| Status Code | Response Model | Description |
|-------------|--|--------------|
| 200 | ListOfJobs (p. 60) | 200 response |
| 400 | ValidationException (p. 62) | 400 response |
| 404 | ResourceNotFoundException (p. 63) | 404 response |
| 429 | ThrottlingException (p. 63) | 429 response |
| 500 | InternalServerErrorException (p. 63) | 500 response |

POST

Operation ID: CreateJob

This operation creates a job.

Responses

| Status Code | Response Model | Description |
|-------------|--|--------------|
| 201 | Job (p. 61) | 201 response |
| 400 | ValidationException (p. 62) | 400 response |
| 403 | AccessDeniedException (p. 63) | 403 response |
| 404 | ResourceNotFoundException (p. 63) | 404 response |
| 429 | ThrottlingException (p. 63) | 429 response |
| 500 | InternalServerErrorException (p. 63) | 500 response |

Schemas

Request Bodies

Example POST

```
{
  "Type": enum,
  "Details": {
    "ImportAssetFromSignedUrl": {
      "DataSetId": "string",
      "Md5Hash": "string",
      "AssetName": "string",
      "RevisionId": "string"
    },
    "ExportAssetToSignedUrl": {
```

```

    "DataSetId": "string",
    "AssetId": "string",
    "RevisionId": "string"
  },
  "ImportAssetsFromS3": {
    "AssetSources": [
      {
        "Bucket": "string",
        "Key": "string"
      }
    ],
    "DataSetId": "string",
    "RevisionId": "string"
  },
  "ExportAssetsToS3": {
    "AssetDestinations": [
      {
        "Bucket": "string",
        "AssetId": "string",
        "Key": "string"
      }
    ],
    "DataSetId": "string",
    "Encryption": {
      "Type": enum,
      "KmsKeyArn": "string"
    },
    "RevisionId": "string"
  }
}
}
}

```

Response Bodies

Example ListOfJobs

```

{
  "NextToken": "string",
  "Jobs": [
    {
      "Errors": [
        {
          "Details": {
          },
          "Message": "string",
          "ResourceId": "string",
          "ResourceType": enum,
          "Code": enum,
          "LimitName": enum,
          "LimitValue": number
        }
      ],
      "Type": enum,
      "Details": {
        "ImportAssetFromSignedUrl": {
          "SignedUrl": "string",
          "DataSetId": "string",
          "Md5Hash": "string",
          "RevisionId": "string",
          "AssetName": "string",
          "SignedUrlExpiresAt": "string"
        },
        "ExportAssetToSignedUrl": {
          "SignedUrl": "string",

```



```

        "DataSetId": "string",
        "AssetId": "string",
        "RevisionId": "string",
        "SignedUrlExpiresAt": "string"
    },
    "ImportAssetsFromS3": {
        "AssetSources": [
            {
                "Bucket": "string",
                "Key": "string"
            }
        ],
        "DataSetId": "string",
        "RevisionId": "string"
    },
    "ExportAssetsToS3": {
        "AssetDestinations": [
            {
                "Bucket": "string",
                "AssetId": "string",
                "Key": "string"
            }
        ],
        "DataSetId": "string",
        "Encryption": {
            "Type": enum,
            "KmsKeyArn": "string"
        },
        "RevisionId": "string"
    }
},
"State": enum,
"CreatedAt": "string",
"Id": "string",
"Arn": "string",
"UpdatedAt": "string"
}
]
}

```

Example Job

```

{
  "Errors": [
    {
      "Details": {
      },
      "Message": "string",
      "ResourceId": "string",
      "ResourceType": enum,
      "Code": enum,
      "LimitName": enum,
      "LimitValue": number
    }
  ],
  "Type": enum,
  "Details": {
    "ImportAssetFromSignedUrl": {
      "SignedUrl": "string",
      "DataSetId": "string",
      "Md5Hash": "string",
      "RevisionId": "string",
      "AssetName": "string",
      "SignedUrlExpiresAt": "string"
    }
  }
}

```

```

    },
    "ExportAssetToSignedUrl": {
      "SignedUrl": "string",
      "DataSetId": "string",
      "AssetId": "string",
      "RevisionId": "string",
      "SignedUrlExpiresAt": "string"
    },
    "ImportAssetsFromS3": {
      "AssetSources": [
        {
          "Bucket": "string",
          "Key": "string"
        }
      ],
      "DataSetId": "string",
      "RevisionId": "string"
    },
    "ExportAssetsToS3": {
      "AssetDestinations": [
        {
          "Bucket": "string",
          "AssetId": "string",
          "Key": "string"
        }
      ],
      "DataSetId": "string",
      "Encryption": {
        "Type": enum,
        "KmsKeyArn": "string"
      },
      "RevisionId": "string"
    }
  },
  "State": enum,
  "CreatedAt": "string",
  "Id": "string",
  "Arn": "string",
  "UpdatedAt": "string"
}

```

Example ValidationException

```

{
  "Message": "string"
}

```

Example AccessDeniedException

```

{
  "Message": "string"
}

```

Example ResourceNotFoundException

```

{
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": enum
}

```

Example ThrottlingException

```
{  
  "Message": "string"  
}
```

Example InternalServerErrorException

```
{  
  "Message": "string"  
}
```

Properties

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

Type: string

Required: True

AssetDestinationEntry

The destination for the asset.

Bucket

The S3 bucket that is the destination for the asset.

Type: string

Required: True

AssetId

The unique identifier for the asset.

Type: string

Required: True

Key

The name of the object in Amazon S3 for the asset.

Type: string

Required: False

AssetSourceEntry

The source of the assets.

Bucket

The S3 bucket that's part of the source of the asset.

Type: string
Required: True

Key

The name of the object in Amazon S3 for the asset.

Type: string
Required: True

CreateJobRequest

The `CreateJob` request. AWS Data Exchange Jobs are asynchronous import or export operations used to create or copy assets. A data set owner can both import and export as they see fit. Someone with an entitlement to a data set can only export. Jobs are deleted 90 days after they are created. Created jobs must be started with the `StartJob` operation.

Type

The type of job to be created.

Type: string
Required: True
Values: `IMPORT_ASSETS_FROM_S3` | `IMPORT_ASSET_FROM_SIGNED_URL` | `EXPORT_ASSETS_TO_S3` | `EXPORT_ASSET_TO_SIGNED_URL`

Details

The details for the `CreateJob` request.

Type: [RequestDetails](#) (p. 74)
Required: True

ExportAssetToSignedUrlRequestDetails

Details of the operation to be performed by the job.

DataSetId

The unique identifier for the data set associated with this export job.

Type: string
Required: True

AssetId

The unique identifier for the asset that is exported to a signed URL.

Type: string
Required: True

RevisionId

The unique identifier for the revision associated with this export request.

Type: string
Required: True

ExportAssetToSignedUrlResponseDetails

The details of the export to signed URL response.

SignedUrl

The signed URL for the export request.

Type: string
Required: False

DataSetId

The unique identifier for the data set associated with this export job.

Type: string
Required: True

AssetId

The unique identifier for the asset associated with this export job.

Type: string
Required: True

RevisionId

The unique identifier for the revision associated with this export response.

Type: string
Required: True

SignedUrlExpiresAt

The date and time that the signed URL expires, in ISO 8601 format.

Type: string
Required: False

ExportAssetsToS3RequestDetails

Details of the operation to be performed by the job.

AssetDestinations

The destination for the asset.

Type: Array of type [AssetDestinationEntry](#) (p. 63)
Required: True

DataSetId

The unique identifier for the data set associated with this export job.

Type: string
Required: True

Encryption

Encryption configuration for the export job.

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

RevisionId

The unique identifier for the revision associated with this export request.

Type: string
Required: True

ExportAssetsToS3ResponseDetails

Details about the export to Amazon S3 response.

AssetDestinations

The destination in Amazon S3 where the asset is exported.

Type: Array of type [AssetDestinationEntry](#) (p. 63)
Required: True

DataSetId

The unique identifier for the data set associated with this export job.

Type: string
Required: True

Encryption

Encryption configuration of the export job.

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

RevisionId

The unique identifier for the revision associated with this export response.

Type: string

Required: True

ExportServerSideEncryption

Encryption configuration of the export job. Includes the encryption type as well as the AWS KMS key. The KMS key is only necessary if you chose the KMS encryption type.

Type

The type of server side encryption used for encrypting the objects in Amazon S3.

Type: [ServerSideEncryptionTypes](#) (p. 75)

Required: True

KmsKeyArn

The Amazon Resource Name (ARN) of the the AWS KMS key you want to use to encrypt the Amazon S3 objects. This parameter is required if you choose `aws:kms` as an encryption type.

Type: string

Required: True

ImportAssetFromSignedUrlRequestDetails

Details of the operation to be performed by the job.

DataSetId

The unique identifier for the data set associated with this import job.

Type: string

Required: True

Md5Hash

The Base64-encoded Md5 hash for the asset, used to ensure the integrity of the file at that location.

Type: string

Required: True

Pattern: `/^(?:[A-Za-z0-9+/]{4})*(?:[A-Za-z0-9+/]{2}==|[A-Za-z0-9+/]{3}=)?$/`

MinLength: 24

MaxLength: 24

AssetName

The name of the asset. When importing from Amazon S3, the S3 object key is used as the asset name.

Type: string

Required: True

RevisionId

The unique identifier for the revision associated with this import request.

Type: string

Required: True

ImportAssetFromSignedUrlResponseDetails

The details in the response for an import request, including the signed URL and other information.

SignedUrl

The signed URL.

Type: string
Required: False

DataSetId

The unique identifier for the data set associated with this import job.

Type: string
Required: True

Md5Hash

The Base64-encoded Md5 hash for the asset, used to ensure the integrity of the file at that location.

Type: string
Required: False
Pattern: /^[a-zA-z0-9+/]{4}*(?:[a-zA-z0-9+/]{2}==|[a-zA-z0-9+/]{3}=)?\$/
MinLength: 24
MaxLength: 24

RevisionId

The unique identifier for the revision associated with this import response.

Type: string
Required: True

AssetName

The name for the asset associated with this import response.

Type: string
Required: True

SignedUrlExpiresAt

The time and date at which the signed URL expires, in ISO 8601 format.

Type: string
Required: False

ImportAssetsFromS3RequestDetails

Details of the operation to be performed by the job.

AssetSources

Is a list of S3 bucket and object key pairs.

Type: Array of type [AssetSourceEntry \(p. 63\)](#)

Required: True

DataSetId

The unique identifier for the data set associated with this import job.

Type: string

Required: True

RevisionId

The unique identifier for the revision associated with this import request.

Type: string

Required: True

ImportAssetsFromS3ResponseDetails

Details from an import from Amazon S3 response.

AssetSources

Is a list of Amazon S3 bucket and object key pairs.

Type: Array of type [AssetSourceEntry \(p. 63\)](#)

Required: True

DataSetId

The unique identifier for the data set associated with this import job.

Type: string

Required: True

RevisionId

The unique identifier for the revision associated with this import response.

Type: string

Required: True

InternalServerErrorException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

Type: string

Required: True

Job

AWS Data Exchange jobs are asynchronous import or export operations used to create or copy assets. Jobs are deleted 90 days after they are created.

Errors

The errors associated with jobs.

Type: Array of type [JobError](#) (p. 72)

Required: False

Type

The job type.

Type: string

Required: True

Values: IMPORT_ASSETS_FROM_S3 | IMPORT_ASSET_FROM_SIGNED_URL | EXPORT_ASSETS_TO_S3 | EXPORT_ASSET_TO_SIGNED_URL

Details

Details about the job.

Type: [ResponseDetails](#) (p. 75)

Required: True

State

The state of the job.

Type: string

Required: True

Values: WAITING | IN_PROGRESS | ERROR | COMPLETED | CANCELLED | TIMED_OUT

CreatedAt

The date and time that the job was created, in ISO 8601 format.

Type: string

Required: True

Id

The unique identifier for the job.

Type: string

Required: True

Arn

The ARN for the job.

Type: string
Required: True

UpdatedAt

The date and time that the job was last updated, in ISO 8601 format.

Type: string
Required: True

JobEntry

AWS Data Exchange Jobs are asynchronous import or export operations used to create or copy assets. A data set owner can both import and export as they see fit. Someone with an entitlement to a data set can only export. Jobs are deleted 90 days after they are created.

Errors

Errors for jobs.

Type: Array of type [JobError \(p. 72\)](#)
Required: False

Type

The job type.

Type: string
Required: True
Values: IMPORT_ASSETS_FROM_S3 | IMPORT_ASSET_FROM_SIGNED_URL | EXPORT_ASSETS_TO_S3 | EXPORT_ASSET_TO_SIGNED_URL

Details

Details of the operation to be performed by the job, such as export destination details or import source details.

Type: [ResponseDetails \(p. 75\)](#)
Required: True

State

The state of the job.

Type: string
Required: True
Values: WAITING | IN_PROGRESS | ERROR | COMPLETED | CANCELLED | TIMED_OUT

CreatedAt

The date and time that the job was created, in ISO 8601 format.

Type: string
Required: True

Id

The unique identifier for the job.

Type: string
Required: True

Arn

The ARN for the job.

Type: string
Required: True

UpdatedAt

The date and time that the job was last updated, in ISO 8601 format.

Type: string
Required: True

JobError

An error that occurred with the job request.

Details

Type: object
Required: False

Message

The message related to the job error.

Type: string
Required: True

ResourceId

The unique identifier for the resource related to the error.

Type: string
Required: False

ResourceType

The type of resource related to the error.

Type: [JobErrorResourceTypes](#) (p. 73)
Required: False

Code

The code for the job error.

Type: string

Required: True

Values: ACCESS_DENIED_EXCEPTION | INTERNAL_SERVER_EXCEPTION | MALWARE_DETECTED
| RESOURCE_NOT_FOUND_EXCEPTION | SERVICE_QUOTA_EXCEEDED_EXCEPTION |
VALIDATION_EXCEPTION | MALWARE_SCAN_ENCRYPTED_FILE

LimitName

The name of the limit that was reached.

Type: [JobErrorLimitName](#) (p. 73)

Required: False

LimitValue

The value of the exceeded limit.

Type: number

Required: False

Format: float

JobErrorLimitName

The name of the limit that was reached.

Assets per revision

Asset size in GB

JobErrorResourceTypes

The types of resource which the job error can apply to.

REVISION

ASSET

ListOfJobs

The token value retrieved from a previous call to access the next page of results.

NextToken

The token value retrieved from a previous call to access the next page of results.

Type: string

Required: False

Jobs

The jobs listed by the request.

Type: Array of type [JobEntry](#) (p. 71)

Required: True

RequestDetails

The details for the request.

ImportAssetFromSignedUrl

Details about the import from signed URL request.

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

ExportAssetToSignedUrl

Details about the export to signed URL request.

Type: [ExportAssetToSignedUrlRequestDetails](#) (p. 64)
Required: False

ImportAssetsFromS3

Details about the import from Amazon S3 request.

Type: [ImportAssetsFromS3RequestDetails](#) (p. 68)
Required: False

ExportAssetsToS3

Details about the export to Amazon S3 request.

Type: [ExportAssetsToS3RequestDetails](#) (p. 65)
Required: False

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

Type: string
Required: True

ResourceId

The unique identifier for the resource that couldn't be found.

Type: string
Required: False

ResourceType

The type of resource that couldn't be found.

Type: string
Required: False
Values: DATA_SET | REVISION | ASSET | JOB

ResponseDetails

Details for the response.

ImportAssetFromSignedUrl

Details for the import from signed URL response.

Type: [ImportAssetFromSignedUrlResponseDetails \(p. 68\)](#)
Required: False

ExportAssetToSignedUrl

Details for the export to signed URL response.

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

ImportAssetsFromS3

Details for the import from Amazon S3 response.

Type: [ImportAssetsFromS3ResponseDetails \(p. 69\)](#)
Required: False

ExportAssetsToS3

Details for the export to Amazon S3 response.

Type: [ExportAssetsToS3ResponseDetails \(p. 66\)](#)
Required: False

ServerSideEncryptionTypes

The types of encryption supported in export jobs to Amazon S3.

aws:kms
AES256

ThrottlingException

The limit on the number of requests per second was exceeded.

Message

The limit on the number of requests per second was exceeded.

Type: string

Required: True

ValidationException

The request was invalid.

Message

The message that informs you about what was invalid about the request.

Type: string

Required: True

See Also

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

ListJobs

- [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 V3](#)

CreateJob

- [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 V3](#)

Job

AWS Data Exchange jobs are asynchronous import or export operations used to create or copy assets. A data set owner can both import and export as they see fit. Someone with an entitlement to a data set can only export. Jobs are deleted 90 days after they are created.

This section defines the `GetJob`, `CancelJob`, and `StartJob` operations.

URI

`/v1/jobs/JobId`

HTTP Methods

GET

Operation ID: `GetJob`

This operation returns information about a job.

Path Parameters

| Name | Type | Required | Description |
|--------------|--------|----------|----------------------------------|
| <i>JobId</i> | String | True | The unique identifier for a job. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 200 | Job (p. 78) | 200 response |
| 400 | ValidationException (p. 79) | 400 response |
| 404 | ResourceNotFoundException (p. 80) | 404 response |
| 429 | ThrottlingException (p. 80) | 429 response |
| 500 | InternalServerError (p. 500) | 500 response |

DELETE

Operation ID: `CancelJob`

This operation cancels a job. Jobs can be cancelled only when they are in the `WAITING` state.

Path Parameters

| Name | Type | Required | Description |
|--------------|--------|----------|----------------------------------|
| <i>JobId</i> | String | True | The unique identifier for a job. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 204 | None | 204 response |
| 400 | ValidationException (p. 79) | 400 response |

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 404 | ResourceNotFoundException (p. 80) | 404 response |
| 409 | ConflictException (p. 80) | 409 response |
| 429 | ThrottlingException (p. 80) | 429 response |
| 500 | InternalServerError (p. 500) | 500 response |

PATCH

Operation ID: StartJob

This operation starts a job.

Path Parameters

| Name | Type | Required | Description |
|--------------|--------|----------|----------------------------------|
| <i>JobId</i> | String | True | The unique identifier for a job. |

Responses

| Status Code | Response Model | Description |
|-------------|---|--------------|
| 202 | None | 202 response |
| 400 | ValidationException (p. 79) | 400 response |
| 403 | AccessDeniedException (p. 74) | 403 response |
| 404 | ResourceNotFoundException (p. 80) | 404 response |
| 409 | ConflictException (p. 80) | 409 response |
| 429 | ThrottlingException (p. 80) | 429 response |
| 500 | InternalServerError (p. 500) | 500 response |

Schemas

Response Bodies

Example Job

```
{
  "Errors": [
    {
      "Details": {
      },
      "Message": "string",
      "ResourceId": "string",
      "ResourceType": enum,
      "Code": enum,
    }
  ]
}
```

```

    "LimitName": enum,
    "LimitValue": number
  }
],
"Type": enum,
"Details": {
  "ImportAssetFromSignedUrl": {
    "SignedUrl": "string",
    "DataSetId": "string",
    "Md5Hash": "string",
    "RevisionId": "string",
    "AssetName": "string",
    "SignedUrlExpiresAt": "string"
  },
  "ExportAssetToSignedUrl": {
    "SignedUrl": "string",
    "DataSetId": "string",
    "AssetId": "string",
    "RevisionId": "string",
    "SignedUrlExpiresAt": "string"
  },
  "ImportAssetsFromS3": {
    "AssetSources": [
      {
        "Bucket": "string",
        "Key": "string"
      }
    ],
    "DataSetId": "string",
    "RevisionId": "string"
  },
  "ExportAssetsToS3": {
    "AssetDestinations": [
      {
        "Bucket": "string",
        "AssetId": "string",
        "Key": "string"
      }
    ],
    "DataSetId": "string",
    "Encryption": {
      "Type": enum,
      "KmsKeyArn": "string"
    },
    "RevisionId": "string"
  }
},
"State": enum,
"CreatedAt": "string",
"Id": "string",
"Arn": "string",
"UpdatedAt": "string"
}

```

Example ValidationException

```

{
  "Message": "string"
}

```

Example AccessDeniedException

```

{

```

```
"Message": "string"
}
```

Example ResourceNotFoundException

```
{
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": enum
}
```

Example ConflictException

```
{
  "Message": "string",
  "ResourceId": "string",
  "ResourceType": enum
}
```

Example ThrottlingException

```
{
  "Message": "string"
}
```

Example InternalServerErrorException

```
{
  "Message": "string"
}
```

Properties

AccessDeniedException

Access to the resource is denied.

Message

Access to the resource is denied.

Type: string
Required: True

AssetDestinationEntry

The destination for the asset.

Bucket

The S3 bucket that is the destination for the asset.

Type: string
Required: True

AssetId

The unique identifier for the asset.

Type: string
Required: True

Key

The name of the object in Amazon S3 for the asset.

Type: string
Required: False

AssetSourceEntry

The source of the assets.

Bucket

The S3 bucket that's part of the source of the asset.

Type: string
Required: True

Key

The name of the object in Amazon S3 for the asset.

Type: string
Required: True

ConflictException

The request couldn't be completed because it conflicted with the current state of the resource.

Message

The request couldn't be completed because it conflicted with the current state of the resource.

Type: string
Required: True

ResourceId

The unique identifier for the resource with the conflict.

Type: string
Required: False

ResourceType

The type of the resource with the conflict.

Type: string
Required: False
Values: DATA_SET | REVISION | ASSET | JOB

ExportAssetToSignedUrlResponseDetails

The details of the export to signed URL response.

SignedUrl

The signed URL for the export request.

Type: string
Required: False

DataSetId

The unique identifier for the data set associated with this export job.

Type: string
Required: True

AssetId

The unique identifier for the asset associated with this export job.

Type: string
Required: True

RevisionId

The unique identifier for the revision associated with this export response.

Type: string
Required: True

SignedUrlExpiresAt

The date and time that the signed URL expires, in ISO 8601 format.

Type: string
Required: False

ExportAssetsToS3ResponseDetails

Details about the export to Amazon S3 response.

AssetDestinations

The destination in Amazon S3 where the asset is exported.

Type: Array of type [AssetDestinationEntry](#) (p. 80)

Required: True

DataSetId

The unique identifier for the data set associated with this export job.

Type: string

Required: True

Encryption

Encryption configuration of the export job.

Type: [ExportServerSideEncryption](#) (p. 83)

Required: False

RevisionId

The unique identifier for the revision associated with this export response.

Type: string

Required: True

ExportServerSideEncryption

Encryption configuration of the export job. Includes the encryption type as well as the AWS KMS key. The KMS key is only necessary if you chose the KMS encryption type.

Type

The type of server side encryption used for encrypting the objects in Amazon S3.

Type: [ServerSideEncryptionTypes](#) (p. 88)

Required: True

KmsKeyArn

The Amazon Resource Name (ARN) of the the AWS KMS key you want to use to encrypt the Amazon S3 objects. This parameter is required if you choose `aws:kms` as an encryption type.

Type: string

Required: True

ImportAssetFromSignedUrlResponseDetails

The details in the response for an import request, including the signed URL and other information.

SignedUrl

The signed URL.

Type: string

Required: False

DataSetId

The unique identifier for the data set associated with this import job.

Type: string
Required: True

Md5Hash

The Base64-encoded Md5 hash for the asset, used to ensure the integrity of the file at that location.

Type: string
Required: False
Pattern: `/^(?:[A-Za-z0-9+/]{4})*(?:[A-Za-z0-9+/]{2}==|[A-Za-z0-9+/]{3}=)?$/`
MinLength: 24
MaxLength: 24

RevisionId

The unique identifier for the revision associated with this import response.

Type: string
Required: True

AssetName

The name for the asset associated with this import response.

Type: string
Required: True

SignedUrlExpiresAt

The time and date at which the signed URL expires, in ISO 8601 format.

Type: string
Required: False

ImportAssetsFromS3ResponseDetails

Details from an import from Amazon S3 response.

AssetSources

Is a list of Amazon S3 bucket and object key pairs.

Type: Array of type [AssetSourceEntry](#) (p. 81)
Required: True

DataSetId

The unique identifier for the data set associated with this import job.

Type: string

Required: True

RevisionId

The unique identifier for the revision associated with this import response.

Type: string

Required: True

InternalServerErrorException

An exception occurred with the service.

Message

The message identifying the service exception that occurred.

Type: string

Required: True

Job

AWS Data Exchange jobs are asynchronous import or export operations used to create or copy assets. Jobs are deleted 90 days after they are created.

Errors

The errors associated with jobs.

Type: Array of type [JobError](#) (p. 86)

Required: False

Type

The job type.

Type: string

Required: True

Values: IMPORT_ASSETS_FROM_S3 | IMPORT_ASSET_FROM_SIGNED_URL | EXPORT_ASSETS_TO_S3 | EXPORT_ASSET_TO_SIGNED_URL

Details

Details about the job.

Type: [ResponseDetails](#) (p. 88)

Required: True

State

The state of the job.

Type: string

Required: True

Values: WAITING | IN_PROGRESS | ERROR | COMPLETED | CANCELLED | TIMED_OUT

CreatedAt

The date and time that the job was created, in ISO 8601 format.

Type: string

Required: True

Id

The unique identifier for the job.

Type: string

Required: True

Arn

The ARN for the job.

Type: string

Required: True

UpdatedAt

The date and time that the job was last updated, in ISO 8601 format.

Type: string

Required: True

JobError

An error that occurred with the job request.

Details

Type: object

Required: False

Message

The message related to the job error.

Type: string

Required: True

ResourceId

The unique identifier for the resource related to the error.

Type: string

Required: False

ResourceType

The type of resource related to the error.

Type: [JobErrorResourceTypes](#) (p. 87)

Required: False

Code

The code for the job error.

Type: string

Required: True

Values: ACCESS_DENIED_EXCEPTION | INTERNAL_SERVER_EXCEPTION | MALWARE_DETECTED
| RESOURCE_NOT_FOUND_EXCEPTION | SERVICE_QUOTA_EXCEEDED_EXCEPTION |
VALIDATION_EXCEPTION | MALWARE_SCAN_ENCRYPTED_FILE

LimitName

The name of the limit that was reached.

Type: [JobErrorLimitName](#) (p. 87)

Required: False

LimitValue

The value of the exceeded limit.

Type: number

Required: False

Format: float

JobErrorLimitName

The name of the limit that was reached.

Assets per revision

Asset size in GB

JobErrorResourceTypes

The types of resource which the job error can apply to.

REVISION

ASSET

ResourceNotFoundException

The resource couldn't be found.

Message

The resource couldn't be found.

Type: string
Required: True

ResourceId

The unique identifier for the resource that couldn't be found.

Type: string
Required: False

ResourceType

The type of resource that couldn't be found.

Type: string
Required: False
Values: DATA_SET | REVISION | ASSET | JOB

ResponseDetails

Details for the response.

ImportAssetFromSignedUrl

Details for the import from signed URL response.

Type: [ImportAssetFromSignedUrlResponseDetails \(p. 83\)](#)
Required: False

ExportAssetToSignedUrl

Details for the export to signed URL response.

Type: [ExportAssetToSignedUrlResponseDetails \(p. 82\)](#)
Required: False

ImportAssetsFromS3

Details for the import from Amazon S3 response.

Type: [ImportAssetsFromS3ResponseDetails \(p. 84\)](#)
Required: False

ExportAssetsToS3

Details for the export to Amazon S3 response.

Type: [ExportAssetsToS3ResponseDetails \(p. 82\)](#)
Required: False

ServerSideEncryptionTypes

The types of encryption supported in export jobs to Amazon S3.

aws:kms
AES256

ThrottlingException

The limit on the number of requests per second was exceeded.

Message

The limit on the number of requests per second was exceeded.

Type: string
Required: True

ValidationException

The request was invalid.

Message

The message that informs you about what was invalid about the request.

Type: string
Required: True

See Also

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

GetJob

- [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 V3](#)

CancelJob

- [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 V3](#)

StartJob

- [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 V3](#)

Document History

The following table describes the documentation for this release of the *AWS Data Exchange Users Guide*.

| update-history-change | update-history-description | update-history-date |
|--|--|---------------------|
| AWS Data Exchange is now generally available (p. 91) | AWS Data Exchange is a service that makes it easy for AWS customers to create, update, maintain, and securely exchange file-based data set in the AWS Cloud. | November 13, 2019 |

AWS glossary

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